

NEW
EDITION



A Complete Range of Solenoid Valves for Fluid Control

General Catalogue

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.



> 5,000

Product references

This catalogue is a comprehensive list of Parker FCDE products. It will help to identify appropriate valves and coils and enable the user to generate ordering numbers.

The catalogue is intended for use by Parker Sales personnel with the aim to select the most suitable solenoid valves for customers.



WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Who we are?

The Fluid Control Division in Europe (FCDE) is a division of Parker Hannifin, the global leader in motion and control technologies.

FCDE core competences are the development and manufacturing of an extremely diverse range of fluid control products, including solenoid valves and pressure regulators.

Where we are?

Our European headquarters are located in Geneva, this is also where our R&D, Marketing, Application Support and Product Management functions are located.

FCDE Products are mainly manufactured at locations in Carouge (Geneva - Switzerland) and Gessate (Milan - Italy).

The Parker Sales Companies and comprehensive distribution network support you, wherever you are.

History

Parker FCDE has been a leading player in the manufacturing and development of solenoid valve technologies for over 60 years, with continuous research and development bringing innovative solutions to the marketplace, for example leading the way in the utilisation of synthetic ruby for critical water applications or the unsurpassed reliability and precision of our pressure regulators. The expertise accumulated and developed through the years is evident in the superior quality of FCDE solutions.

Markets

Our products and solutions are typically designed for markets including Industrial Equipment, Industrial Automation, Mobile, Transportation, Life Sciences, Beverage dispensing and for Fluid and Process Control.

Benefits

The modular concept of our products, having separate solenoid valves and electrical parts, provides the customer with increased flexibility by allowing numerous combinations. This additional flexibility can enable distributors to greatly reduce valve inventory levels, whilst retaining the same number of capabilities. Parker also has unrivalled experience in developing customised product solutions complying with the highest technical, environmental, energy and service life requirements.



PARKER FCDE - GENEVA - SWITZERLAND



PARKER FCDE - MILAN - ITALY

GENERAL CATALOGUE FCDE

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MARKETS AND APPLICATIONS

In order to bring customers the best solution, Parker offers a wide range of products that can be divided into specific markets:

INDUSTRIAL & AUTOMATION

- Compressors
- Blowing
- Textile
- Pressure Regulation



PROCESS CONTROL

- Valve Actuation
- Oil & Gas
- On & Off-Shore
- Petro-Chemical
- Pharmaceutical



FOOD & BEVERAGE

- Professional Coffee Machines
- Sparkling Water
- Soft Drinks
- Water Dispensing



COOLING & CLIMATE CONTROL

- Water dispensing
- Cooling systems



TRANSPORTATION

- Trucks
- Trains
- Bus and Coach
- Marine
- Military
- Agriculture



LIFE SCIENCE

- Sterilizers / Autoclaves
- Breathing
- Water purification
- Table-top equipment



HEATING SYSTEMS

- Industrial Oil Burners
- Fuel Transfer
- Gas Transfer



A COMPLETE RANGE OF SOLENOID VALVES FOR FLUID CONTROL

2 WAY VALVES

- For dry or lubricated air, neutral gases and liquids
- For water and neutral liquids
- Anti water hammer
- Hot water and steam
- For hydraulic oil and neutral liquids (Max. 100 bar)
- High corrosion resistant (303 Stainless Steel) (316L Stainless Steel)
- Oil burner
- Fast switching
- Liquipure® for beverage dispensing



3 WAY VALVES

- For dry or lubricated air
- For hydraulic oil and neutral liquids (Max. 75 bar)
- High corrosion resistant (303 Stainless Steel)
- Liquipure® for beverage dispensing



2 & 3 WAY VALVES FOR TRANSPORTATION

- 2 way- direct and piloted
- 3 way- direct operated



5 WAY DISTRIBUTORS FOR PNEUMATIC APPLICATIONS

- Pipe mounted/ Sub-base mounting



3 & 5 WAY PNEUMATIC DISTRIBUTORS FOR ACTUATION CONTROL

- Pipe mounted
- NAMUR interface
- 316L Stainless Steel (Pipe mounted and with NAMUR interface)



COILS & ELECTRICAL PARTS

- Coils
- Housings
- Explosion-Proof Electrical Parts



EPP4 SERIES ELECTROPNEUMATIC PRESSURE REGULATORS

- Basic
- Comfort
- Comfort ATEX



A MODULAR CONCEPT FOR EVERY APPLICATION

CHOOSE BETWEEN:

Actuation Modes

- Direct Operated
- Magnalift
- Pilot Operated
- Manual Reset
- Externally Operated

Material Types

- Brass
- 303 Stainless St.
- 316L Stainless St.
- Anodized Aluminium
- Zinc Alloy
- POM

Mounting Solutions

- Pipe
- Sub-base
- NAMUR
- Banjo
- CETOP
- ISO

Control Functions

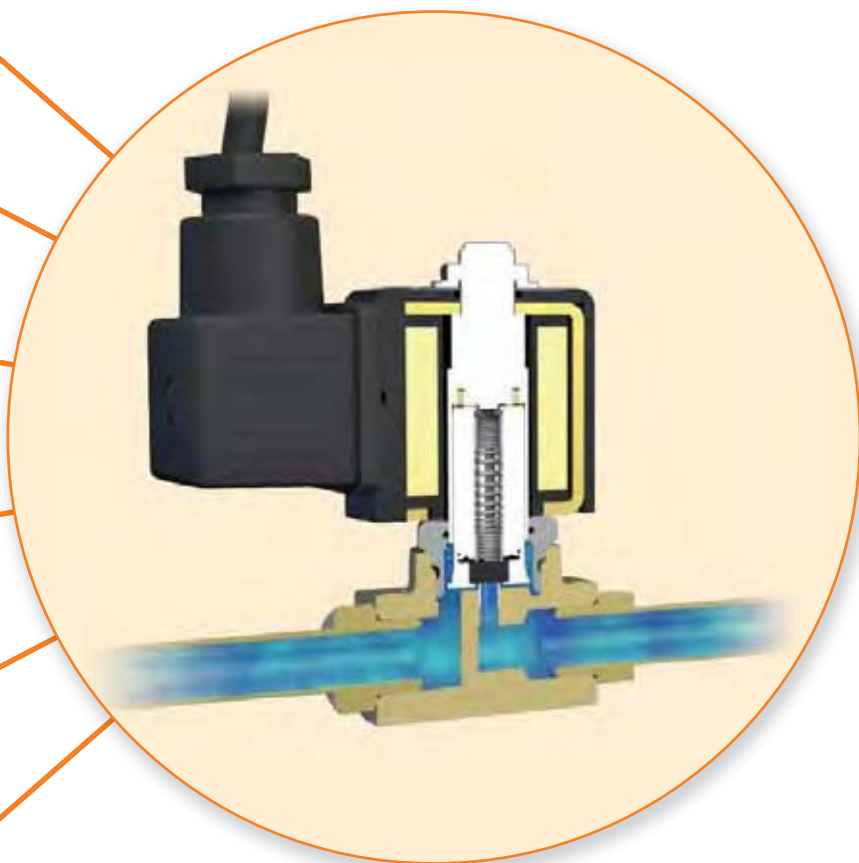
- Normally Closed
- Normally Open
- Universal
- Control by Electric Impulse
- Dual Solenoids
- PWM

Internal Design

- Piston
- Poppet
- Diaphragm
- Spool

Seals

- FKM
- NBR
- EPDM
- Ruby
- PUR
- PCTFE...



ATEX CERTIFICATION



ELECTRICAL PART ATEX CERTIFICATION

A selection of FCDE electrical parts conform to the terms of the 94/9/EC directive and are made for potentially explosive environments - zone 0/20, 1/21 and 2/22.

Within the coil section, the presence of the ATEX logo  shows that the coil is ATEX approved.



MECHANICAL PART ATEX CERTIFICATION

A selection of FCDE mechanical parts conform to the terms of the 94/9/CE directive specific to non electrical equipment for use within potentially explosive environments - zones 0/20, 1/21 and 2/22.

NAMUR & piped valve ranges now include a marking which indicates mechanical ATEX approval.

Within the valve section, the presence of the ATEX logo  shows that the valve is ATEX approved.



SOLENOID VALVE CERTIFICATION

When both the electrical and mechanical part are ATEX approved, the solenoid valve can be used in explosive atmospheres.

The solenoid valve will be delivered assembled and tested.



PARKER FCDE IS MEETING WORLD CLASS STANDARDS

QUALITY STANDARDS:

- ISO 9001
- ISO 14001
- ISO TS 16949



CERTIFICATIONS AND APPROVALS:

Our products have been approved and are compliant with the relevant market requirements including:

- CE
- ATEX
- RoHS
- UL
- Reach
- IECEx
- CSA
- Gost
- SVGW
- DIN
- AGA
- TUV
- Kosha
- IMQ
- NSF
- VDE



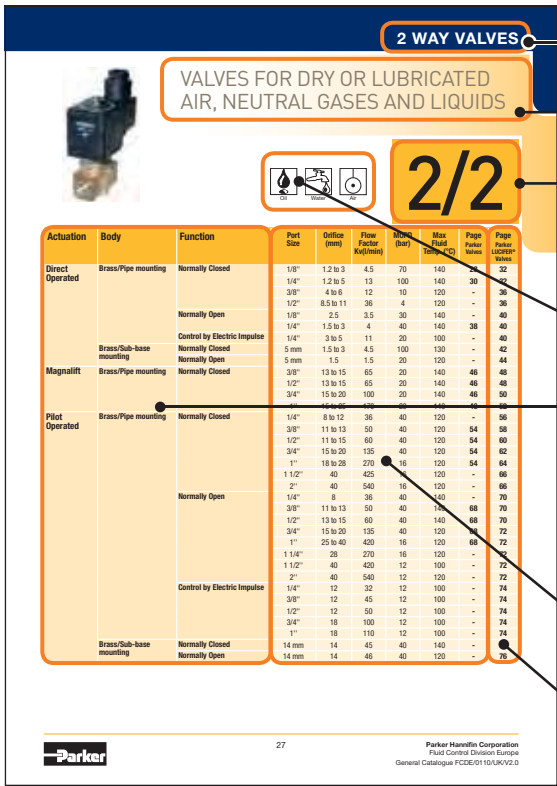
HOW TO USE THIS CATALOGUE

This catalogue is a comprehensive list of Parker FCDE products. It will help to identify appropriate valves and coils and enable the user to generate ordering numbers. The catalogue is intended for use by Parker Sales personnel with the aim to select the most suitable solenoid valves for customers.

This catalogue is split by product family. You will find a summary page at the beginning of each valve section. For ease of use, each valve section is divided by application.

On the first page of each Application section, you will find an overview of the products within and their technical characteristics, to guide you to the relevant page (example below):

SECTION SUMMARY PAGE



The image shows a section summary page for '2 WAY VALVES'. It includes a product image, a title 'VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS', a '2/2' symbol, and a table with columns: Actuation, Body, Function, Port Size, Orifice (mm), Flow Factor (Kvs/min), Min. (bar), Max. (bar), Page (Table 1), and Page (Table 2). The table lists various valve configurations under three actuation types: Direct Operated, Magnalift, and Pilot Operated. Callouts from the right point to specific elements: 'Product family' points to the '2 WAY VALVES' header; 'Application' points to the descriptive text; 'Number of ways / positions' points to the '2/2' symbol; 'Actuation' points to the 'Actuation' column; 'Applicable Fluids' points to the descriptive text; 'Actuation, body and function' points to the first three columns of the table; 'Body' points to the 'Body' column; 'Mounting' points to the 'Function' column; 'Function' points to the 'Function' column; 'Technical features' points to the 'Page (Table 1)' and 'Page (Table 2)' columns; and 'Related page' points to the 'Page (Table 1)' and 'Page (Table 2)' columns.

Product family

Application

Number of ways / positions

Actuation

Applicable Fluids

Actuation, body and function

Body

Mounting

Function

Technical features

Related page

For further technical information regarding Actuation, Body and Function, please refer to the technical information section at the end of the catalogue.

Applicable **Markets**
for this valve category

Applicable **Approvals**
within this page

Quick selection table with
Min/Max values for all valves on the page

SECTION PRODUCT PAGE

2 WAY VALVES

21/2" HOT WATER AND STEAM VALVES

MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors Kv mm³/min Kvs m³/h	Operating Pressure Maximum		Fluid Temp.		Seal	Parker LUCIFER® Valves		Power	Coil Group	Draw No.					
			Min	Max	Min	Max		Valve Ref.	Coil Ref.								
3/8"	15	65	3.9	-	0	10	-	0	100	EPDM	22161303	2995	481885	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	22161303	4270	481000	8	-	2.0	3732
	15	65	3.9	-	0	4	0	140	EPDM	22161303	4270	486295	14	14	2.0	3732	
	15	65	3.9	4500	0	10	10	-10	100	FPM	22161330	2995	481885	8	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	FPM	22161330	-	482070	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	FPM	22161330	-	482190	11	9	2.1	3732
1/2"	15	65	3.9	-	0	10	-	0	100	EPDM	22161303	2995	481885	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	22161303	4270	481000	8	-	2.0	3732
	15	65	3.9	-	0	10	7	0	140	EPDM	22161303	4270	486295	14	14	2.0	3732
3/4"	15	80	4.8	-	0	10	-	0	100	EPDM	22161803	2995	481885	8	-	2.0	3444
	15	80	4.8	-	0	10	-	0	120	EPDM	22161803	4270	481000	8	-	2.0	3444
1"	15	80	4.8	-	0	4	0	140	EPDM	22161803	4270	486295	14	14	2.0	3444	
	15	80	4.8	-	0	10	-	0	100	EPDM	22161703	2995	481885	8	-	2.0	3445
	15	80	4.8	-	0	10	-	0	120	EPDM	22161703	4270	481000	8	-	2.0	3445
15	80	4.8	-	0	10	10	0	140	EPDM	22161703	4270	486295	14	14	2.0	3445	

Notes:
1. Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion protection or with standard DC coils.

2 WAY VALVES

For this page

Port size	Orifice (mm)	Kv (mm³/min)	MSDP (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	4	-10
To	1"	15	80	10	140

WEIGHT : 0.640 kg

Drawing 3732

Drawing 3444

Drawing 3445

Ordering information

**ISO
Symbol**

A choice of **Coil Groups**
compatible with the selected valve.

**Dimensional 2D* and
3D drawings**

* 2D drawing shown always corresponds to the standard coil.

HOW TO SELECT A VALVE

Once you are in the selected family **1** and application **2**.

The table is designed to help you navigate to the products matching your criteria.

First decide the actuation **3**, then move across the table selecting your body material **4**, function **5** and technical requirements **6**.

After you have found products fitting within your specification, please go to the corresponding page number in the final column **7**, here you will find a selection of products that match your criteria.

1 SELECT PRODUCT FAMILY

2 SELECT APPLICATION

3 SELECT ACTUATION

4 SELECT BODY

5 SELECT FUNCTION

6 SELECT TECHNICAL DATA

7 SELECT CORRESPONDING PAGE

1

2 WAY VALVES



VALVES FOR DRY OR LUBRICATED
AIR, NEUTRAL GASES AND LIQUIDS

2



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.2 to 3	4.5	70	140	28	32
			1/4"	1.2 to 5	13	100	140	30	32
			3/8"	4 to 6	12	10	120	-	36
			1/2"	8.5 to 11	36	4	120	-	36
			1/8"	2.5	3.5	30	140	-	40
	Brass/Sub-base mounting	Normally Open	1/4"	1.5 to 3	4	40	140	38	40
			1/4"	3 to 5	11	20	100	-	40
			5 mm	1.5 to 3	4.5	100	130	-	42
			5 mm	1.5	1.5	20	120	-	44
			3/8"	13 to 15	65	20	140	46	48
Maglift	Brass/Pipe mounting	Normally Closed	1/2"	13 to 15	65	20	140	46	48
			3/4"	15 to 20	100	20	140	46	50
			1"	15 to 25	170	20	140	46	52
			1/4"	8 to 12	40	120	-	-	-
			3/8"	11 to 13	50	120	-	54	-
	Brass/Sub-base mounting	Normally Open	1/2"	11 to 15	60	120	-	54	-
			3/4"	15 to 20	100	120	-	54	-
			1"	18 to 28	270	16	120	54	64
			1 1/2"	40	425	16	120	-	66
			2"	40	540	16	120	-	66
Pilot Operated	Brass/Pipe mounting	Normally Open	1/4"	8	36	40	140	-	70
			3/8"	11 to 13	50	40	140	68	70
			1/2"	13 to 15	60	40	140	68	70
			3/4"	15 to 20	135	40	120	68	72
			1"	25 to 40	420	16	120	68	72
	Brass/Sub-base mounting	Normally Closed	1 1/4"	28	270	16	120	-	72
			1 1/2"	40	420	12	100	-	72
			2"	40	540	12	120	-	72
			1/4"	12	32	12	100	-	74
			3/8"	12	45	12	100	-	74
Pilot Operated	Brass/Pipe mounting	Normally Open	1/2"	12	50	12	100	-	74
			3/4"	18	100	12	100	-	74
			1"	18	110	12	100	-	74
			14 mm	14	45	40	140	-	76
			14 mm	14	46	40	120	-	76
	Brass/Sub-base mounting	Normally Closed	14 mm	14	46	40	120	-	76
			14 mm	14	46	40	120	-	76
			14 mm	14	46	40	120	-	76
			14 mm	14	46	40	120	-	76
			14 mm	14	46	40	120	-	76



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Parker Hannifin Corporation
Fluid Control Division Europe
General Catalogue FCDE/0110/UK/V2.0

HOW TO ORDER

BETWEEN TWO PRODUCT RANGES

7

SELECT CORRESPONDING

Parker [Blue Table]

2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	l/min	gpm	Min	Max	Min	Max	Min		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
1/8"	BSP	mm			AC bar	DC bar	°C	°C	FKM								
1/8"	2.5	3.3	0.20	-	0	-	5	-10	140	FKM	363380	PM146FV	ZB12	-	12	20.1/20.2	034
	3	4.5	0.27	-	0	7	-	10	140	FKM	363390	PM146HV	ZB09	9	-	20.1/20.2	034
	3	4.5	0.27	-	0	-	2	-10	140	FKM	363390	PM146HV	ZB12	-	12	20.1/20.2	034
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398006	N74.4WV	WB4.5 230/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398007	N74.4WV	WB4.5 34/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398008	N74.4WV	WB5.0 120C	-	5	1.3	065
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398010	N74.4WV	WB5.0 240C	-	5	1.3	065
	2.5	2.2	0.13	-	0	19	-	-10	140	FKM	398009	N74.4WV	WB5.0 240C	-	5	1.3	065
	2.5	2.2	0.13	-	0	19	-	-10	140	FKM	398009	N74.4WV	WB5.0 240C	-	5	1.3	065
	2.5	2.2	0.13	-	0	19	-	-10	140	FKM	398009	N74.4WV	WB5.0 240C	-	5	1.3	065

- Designed for Industrial Automation applications
- ATEX applications only if indicated

● Please order:
Valve + Coil

Order Separately

1

VALVE

Valve order example:
363380

2

COIL

Coil order example:
304002

For more details, see page 20:

How to Order
Parker Valves

CAUTION: For N74, N79, 131.4, 131, 175, 180, 161 valves series, the valve order number indicates assembled valve **and** coil for the voltage shown.

IMPORTANT: For assembled solenoid valves, please consult your local sales office.

Parker Lucifer® [Orange Table]

2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors		Operating Pressure Differential		Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.		
		Kv	Qv	Min	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W				
BSP	mm	mm³/min	l/min	bar	bar	°C	°C										
3/8"	4	7.5	0.45	480	0	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551	
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
1/2"	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/142	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	486265	14	14	2.0/142	3551

- Thanks to the modular concept, a wide range of electrical parts can be used including ATEX, IECEx, IP67, H class, reduced power, UL/VDE approved
- For demanding applications in reliability, performance, quality
- High quality materials and execution

• **Please order:**
Valve + Housing + Coil

One Order

1

VALVE

2

HOUSING

3

COIL



For more details, see page 22:

**How to Order
Parker Lucifer®
Solenoid Valves**

Valve and coil order example:

1

121K3206
Valve Reference

-

2

2995
Housing

-

3

481865A2
Coil and Voltage Code

HOW TO ORDER PARKER VALVES

A PARKER SOLENOID VALVE IS COMPOSED OF 2 ELEMENTS:

The Valve ① and the Coil ②

① Use the valve order number (6 digits) to order the valve.

Valve Order Number

363380

363390

363390

Valve order N° example:
363380

For a given valve, several coil types are being suggested.

For a wider choice, the selected valve is also compatible with every other coil from the same coil group.

2 WAY VALVES

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors Kv m³/h Cv US gpm	Operating Pressure Differential Min AC bar DC bar	Max(MOPD) bar	Fluid Temp. Min °C Max °C	Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.				
							Valve Order Number	Valve Type	Coil Type	AC W	DC W						
1/8"	2.5	3.3	0.20	-	0	5	-10	140	FKM	363380	PM146FV	ZB12	-	12	20.1/20.2	034	
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363390	PM146HV	ZB09	9	-	20.1/20.2	034
	3	4.5	0.27	-	0	2	-	-10	140	FKM	363390	PM146HV	ZB12	-	12	20.1/20.2	034
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398006	N74.4WV	WB4.5 230/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398007	N74.4WV	WB4.5 240/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	4	-	-10	140	FKM	398008	N74.4WV	WB5.0 120C	-	5	1.3	065
1/4"	2.5	2.2	0.13	-	0	4	-	-10	140	FKM	398010	N74.4WV	WB5.0 240C	-	5	1.3	065
	2.5	2.2	0.13	-	0	19	-	-10	140	FKM	398012	N74.4WV	WB8.0 230/50-60	8	-	1.3	065
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363444	PM146YV	ZB09	9	-	20.1/20.2	035
	3	4.5	0.27	-	0	2	-	-10	140	FKM	363444	PM146YV	ZB12	-	12	20.1/20.2	035
	4.5	9	0.53	-	0	6	-	-10	140	FKM	363457	PM146.3KV	ZB14	14	-	20.2	035
	4.5	9	0.53	-	0	2.5	-	-10	140	FKM	363457	PM146.3KV	ZB16	-	16	20.2	035
	6	13	0.75	-	0	6	-	-10	140	FKM	363467	PM146.3ABV	ZB14	14	-	20.2	035
	6	13	0.75	-	0	1	-	-10	140	FKM	363467	PM146.3ABV	ZB16	-	16	20.2	035

Notes:
1. Ordering number is for an assembled valve and coil, with the voltage shown.

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Parker Hannifin Corporation
Fluid Control Division Europe
General Catalogue FCDE/0110/UK/V2.0

HOW TO ORDER PARKER COILS

2 Use the coil order number (6 digits) to order the coils

Choose the coil and use the 6 digits order number to order.

VAC/Hz Order Number

ZB09 24/50-60	304004
ZB09 12/50-60	304002
ZB09 230/50-60	304012

Coil order N° example:
304002

COILS

COIL GROUP

20.1

COILS FOR DIN PLUG CONNECTION



ZB COIL SERIES

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.
IP65 protection rate with EN 175301-803:2006-A. Three pin connector.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

For UL recognized version: UL file MH19410.

DIN plug connector to be ordered separately (see coil accessories section).



Specification	Standard		UL recognized version	
Reference (without DIN plug)	ZB09/ZB12		ZB09 for AC only	
Coil Group	20.1			
Degree of protection	IP65 according to IEC / EN 60529 standards (with DIN plug and gasket)			
Temp of insulation	F 155°C			
Electrical connection	The coil is connected with a 2 P + E plug according to EN 175301-803 - type A			
Ambient temperature	-10°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	P (cold) 20°C	12 W	
AC	P (cold) 20°C	9 W		
Attraction coil		25 VA		
Weight	130 g			
Voltages "Un"	VAC/Hz	Order Number	VDC	Order Number
-10% to +10% of Un for AC	ZB09 24/50-60	304004	ZB12 12VDC	304016
-5 % to + 10 % for Un DC:	ZB09 12/50-60	304002	ZB12 24VDC	304020
	ZB09 230/50-60	304012	ZB12 110VDC	304022
	ZB09 115/50-60	304010	ZB12 48VDC	304021
	ZB09 100/50-60	304009		
	ZB09 240/50-60	304014		
	ZB09 48/50-60	304008		
	ZB09 110-120/60	304011		
	ZB09 380/50-60	304016		
	ZB09 24/50-60	304004		
	ZB09 110-120/60	304011		
	ZB09 208-240/60	304051		

To Order a Coil: Use 6 digits ordering number - **Code Example:** ZB09 24/50-60 = **304004**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



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Fluid Control Division Europe
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Coil section at the end of the catalogue

IMPORTANT: For assembled solenoid valves, please consult your local sales office.



HOW TO ORDER PARKER LUCIFER® SOLENOID VALVES

A PARKER LUCIFER® SOLENOID VALVE IS COMPOSED OF 3 ELEMENTS:

The Valve ① + Housing ② + Coil ③

1. Choose the valve reference
2. Choose the housing
3. Choose the coil

① Choose the Valve Reference.

Valve Ref.
121K3206
121K3206
121K3206

② Select the housing depending on the protection level (IP 44 to IP 67 found in the coil section)

Housing Ref.
2995
4270
4270

2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors		Operating Pressure Differential Max(MOPD)	Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.			
								Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W					
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	°C	°C										
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
1/2"	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

Notes:

1. Valve compatible with water only up to 40°C
2. With manual override

Parker

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Parker Hannifin Corporation
Fluid Control Division Europe
General Catalogue FCDE/0110/UK/V2.0

Notes:

1. Valve compatible with water only up to 40°C
2. With manual override

For a given valve, several coil types are being suggested.

For a wider choice, the selected valve is also compatible with every other coil from the same coil group.

Parker Lucifer® coils are available in many different voltages.
Choose the one you need by putting the voltage code at the end of your ordering number.

3 Choose the coil and voltage code.

Coil Ref.

481865

Voltage
Code

VAC/Hz

Code

24/50

A2

48/50

A4

110/50

A5

220-230/50

3D

Valve and coil order example:

1

2

3

121K3206 - 2995 - 481865A2

Valve
Reference

Housing

Coil and
Voltage Code

COILS

COIL GROUP

2.0/2.1

**COILS FOR
DIN PLUG CONNECTION**



COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/ENEC safety standards and complies with European low-voltage directive.



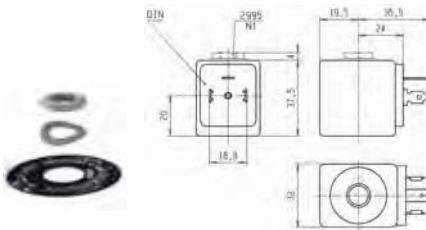
Specification	Standard	Double frequency
Ref. (without DIN plug)	481865	483510
Ref. (with DIN plug)	482725	482635
Coil Group	2.0 / 2.1	
Degree of protection	IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation	F 155°C	
Electrical connection	The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature	-40°C to +50°C	
	The application is limited also by the temperature range of the valve.	
Elect. Power	Pn (in)	-
DC	P (cold) 20°C	-
	9 W	-
	12 W	-
AC	Pn (holding)	9 W
	Attraction cold	32 VA (10 W)
	26 VA (9 W)	
Weight	130 g (without plug)	
Voltages "Un"	VAC/Hz	VDC
-10% to +10% of the Un	24/50 A2	24 C2
	48/50 A4	48 C4
	110/50 A5	110 C5
	220-230/50 3D	24/50, 24/60 P0
		48/50, 48/60 S4
		110-115/50, 120/60 S5
		220-240/50, 240/60 S6

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = **481865C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit Ref. 2995 corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).
It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



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Parker Hannifin Corporation
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IMPORTANT: Valve, Housing or Coil can be ordered separately for use as a replacement or spare part.



HOW TO USE COIL GROUPS

WITHIN A VALVE PAGE

One of Parker's strengths is the modularity, adaptability and flexibility of our products. When you select a solenoid valve, the coils displayed in the table have been chosen as they will fulfill the majority of application requirements.

Parker LUCIFER® Valves		
Valve Ref.	Housing Ref.	Coil Ref.
121K3206	2995	481865
121K3206	4270	481000
121K3206	4270	486265

However, in some specific cases, you will need special features that will lead you to choose another coil.

Groups have been created in order to facilitate the selection of a compatible coil with the chosen valve.

Coil Group
2.0
2.0
2.0

Example:

The valve 121K3206 is proposed with the coil 481865 but you can also choose any coil from the group 2.0.

2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors	Operating Pressure Differential	Fluid Temp.	Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.					
						Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W							
3/8"	4	7.5	0.45	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551	
	4	7.5	0.45	480	0	10	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551	
	4	7.5	0.45	480	0	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551	
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	9	2.0/14.2	3551	
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
1/2"	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.47	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

Notes:

1. Valve compatible with working up to 40°C
2. With manual override

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It is also possible to choose the coil first and then select the valve using coil groups.

HOW TO USE COIL GROUPS

WITHIN A COIL PAGE

The coil section is at the end of the catalogue and displays the specifications of each coil, along with the reference number, class of insulation, ambient temperature, electrical power and weight.

2.0 / 2.1

As indicated before, the valve 121K3206 is proposed with coil 481865 but is also compatible with the 2.0 coil group. This means the coil 482725 is also compatible with the chosen valve as it is within this group.

When referring to the coil section you will find the coil group for each coil. This allows you to discover which other coils are compatible with the valve you have chosen.

COILS
COIL GROUP
2.0/2.1

COILS FOR DIN PLUG CONNECTION


COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" within valve pages. This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection. The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc. Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc. Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

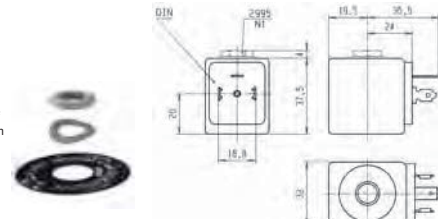


Specification	Standard	Double frequency
Ref. (without DIN plug)	481865	483510
Ref. (with DIN plug)	482725	482635
Coil Group	2.0 / 2.1	
Degree of protection	IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation	F 155°C	
Electrical connection	The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature	-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	
	Pn (hot)	9 W
	P (cold) 20°C	12 W
	Pn (holding)	8 W
AC	Attraction cold	26 VA (9 W)
		32 VA (10 W)
Weight	130 g (without plug)	
Voltages "Un"	VAC/Hz	Code
-10% to +10% of the Un	24/50	A2
	48/50	A4
	110/50	A5
	220-230/50	3D
	VDC	Code
	24	C2
	48	C4
	110	C5
	VAC/Hz	Code
	24/50, 24/60	P0
	48/50, 48/60	S4
	110-115/50, 120/60	S5
	220-240/50, 240/60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = **481865C2**
 More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage). It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





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 Fluid Control Division Europe
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2 WAY VALVES



VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS



Oil



Water



Air

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.2 to 3	4.5	70	140	28	32
			1/4"	1.2 to 5	13	100	140	30	32
			3/8"	4 to 6	12	10	120	-	36
			1/2"	8.5 to 11	36	4	120	-	36
		Normally Open	1/8"	2.5	3.5	30	140	-	40
			1/4"	1.5 to 3	4	40	140	38	40
		Control by Electric Impulse	1/4"	3 to 5	11	20	100	-	40
			5 mm	1.5 to 3	4.5	100	130	-	42
Magnalift	Brass/Pipe mounting	Normally Closed	5 mm	1.5	1.5	20	120	-	44
			3/8"	13 to 15	65	20	140	46	48
			1/2"	13 to 15	65	20	140	46	48
			3/4"	15 to 20	100	20	140	46	50
			1"	15 to 25	170	20	140	46	52
Pilot Operated	Brass/Pipe mounting	Normally Closed	1/4"	8 to 12	36	40	120	-	56
			3/8"	11 to 13	50	40	120	54	58
			1/2"	11 to 15	60	40	120	54	60
			3/4"	15 to 20	135	40	120	54	62
			1"	18 to 28	270	16	120	54	64
			1 1/2"	40	425	16	120	-	66
			2"	40	540	16	120	-	66
		Normally Open	1/4"	8	36	40	140	-	70
			3/8"	11 to 13	50	40	140	68	70
			1/2"	13 to 15	60	40	140	68	70
			3/4"	15 to 20	135	40	120	68	72
			1"	25 to 40	420	16	120	68	72
			1 1/4"	28	270	16	120	-	72
			1 1/2"	40	420	12	100	-	72
			2"	40	540	12	120	-	72
		Control by Electric Impulse	1/4"	12	32	12	100	-	74
			3/8"	12	45	12	100	-	74
			1/2"	12	50	12	100	-	74
			3/4"	18	100	12	100	-	74
			1"	18	110	12	100	-	74
			14 mm	14	45	40	140	-	76
	Brass/Sub-base mounting	Normally Closed	14 mm	14	46	40	120	-	76
		Normally Open	14 mm	14	46	40	120	-	76

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VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED



Commercial Equipment



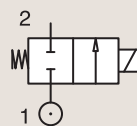
Industrial Equipment



Heating Systems

BRASS PIPE MOUNTING

NORMALLY CLOSED



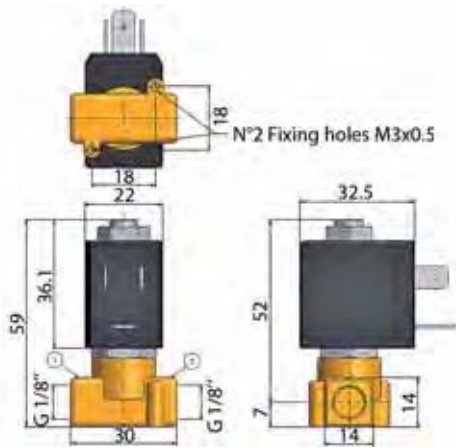
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
1/8"	1.2	0.7	0.04	-	0	20	-	-10	140	FKM	398018 ₁	N74.4IV	WB4.5 115/50-60	4.5	-	1.3	064
	1.5	1	0.06	-	0	20	-	-10	140	FKM	398017 ₁	N74.4AV	WB4.5 115/50-60	4.5	-	1.3	064
	1.5	1	0.06	-	0	20	-	-10	140	FKM	398014 ₁	N74.4AV	WB4.5 230/50-60	4.5	-	1.3	064
	1.5	1	0.06	-	0	20	-	-10	140	FKM	398030 ₁	N74.4AV	WB4.5 24/50-60	4.5	-	1.3	064
	1.5	1	0.06	-	0	-	10	-10	140	FKM	398034 ₁	N74.4AV	WB5.0 12DC	-	5	1.3	064
	1.5	1	0.06	-	0	-	10	-10	140	FKM	398016 ₁	N74.4AV	WB5.0 24DC	-	5	1.3	064
	1.5	1	0.06	-	0	-	10	-10	140	FKM	398013 ₁	N74.4AVA.5	WB5.0 5.0 24DC	-	5	1.3	064
	1.5	1.5	0.09	-	0	20	-	-10	140	FKM	363378	PM146BV	ZB09	9	-	20.1/20.2	034
	1.5	1.5	0.09	-	0	-	18	-10	140	FKM	363378	PM146BV	ZB12	-	12	20.1/20.2	034
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398026 ₁	N74.4FV	WB4.5 115/50-60	4.5	-	1.3	064
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398003 ₁	N74.4FV	WB4.5 115/60	4.5	-	1.3	064
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398000 ₁	N74.4FV	WB4.5 230/50-60	4.5	-	1.3	064
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398024 ₁	N74.4FV	WB4.5 24/50-60	4.5	-	1.3	064
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398001 ₁	N74.4FV	WB4.5 240/50-60	4.5	-	1.3	064
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398052 ₁	N74.4FV	WB5.0 12DC	-	5	1.3	064
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398022 ₁	N74.4FV	WB5.0 24DC	-	5	1.3	064
	2.5	3.3	0.20	-	0	10	-	-10	140	FKM	363380	PM146FV	ZB09	9	-	20.1/20.2	034

Notes:

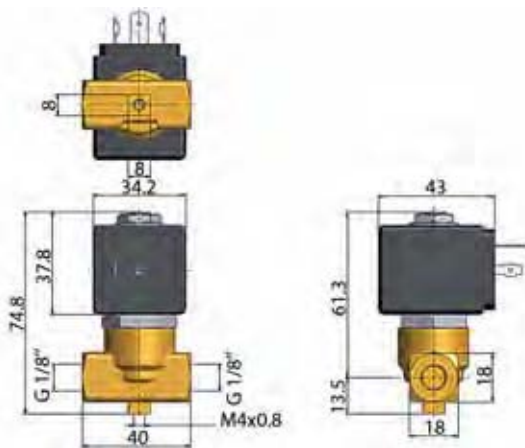
1. Ordering number is for an assembled valve and coil, with the voltage shown.



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.7	4	-10	-10
To	1/8"	2.5	3.3	20	140	50



Drawing 064



Drawing 034

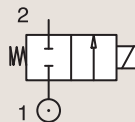
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



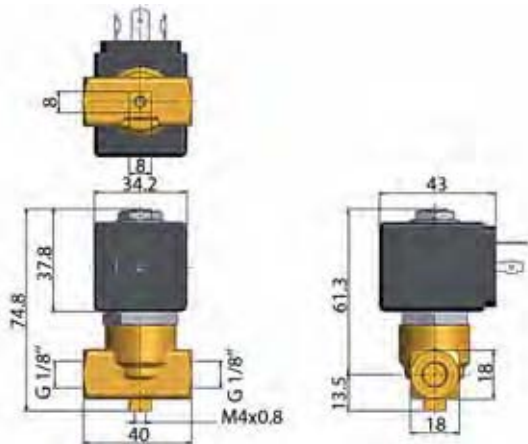
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm																
1/8"	2.5	3.3	0.20	-	0	-	5	-10	140	FKM	363380	PM146FV	ZB12	-	12	20.1/20.2	034
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363390	PM146HV	ZB09	9	-	20.1/20.2	034
	3	4.5	0.27	-	0	-	2	-10	140	FKM	363390	PM146HV	ZB12	-	12	20.1/20.2	034
1/4"	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398006 ₁	N74.4WV	WB4.5 230/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	10	-	-10	140	FKM	398007 ₁	N74.4WV	WB4.5 24/50-60	4.5	-	1.3	065
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398008 ₁	N74.4WV	WB5.0 12DC	-	5	1.3	065
	2.5	2.2	0.13	-	0	-	4	-10	140	FKM	398010 ₁	N74.4WV	WB5.0 24DC	-	5	1.3	065
	2.5	2.2	0.13	-	0	19	-	-10	140	FKM	398012 ₁	N74.4WV	WB8.0 230/50-60	8	-	1.3	065
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363444	PM146YV	ZB09	9	-	20.1/20.2	035
	3	4.5	0.27	-	0	-	2	-10	140	FKM	363444	PM146YV	ZB12	-	12	20.1/20.2	035
	4.5	9	0.53	-	0	6	-	-10	140	FKM	363457	PM146.3KV	ZB14	14	-	20.2	035
	4.5	9	0.53	-	0	-	2.5	-10	140	FKM	363457	PM146.3KV	ZB16	-	16	20.2	035
	6	13	0.75	-	0	6	-	-10	140	FKM	363467	PM146.3ABV	ZB14	14	-	20.2	035
	6	13	0.75	-	0	-	1	-10	140	FKM	363467	PM146.3ABV	ZB16	-	16	20.2	035

Notes:

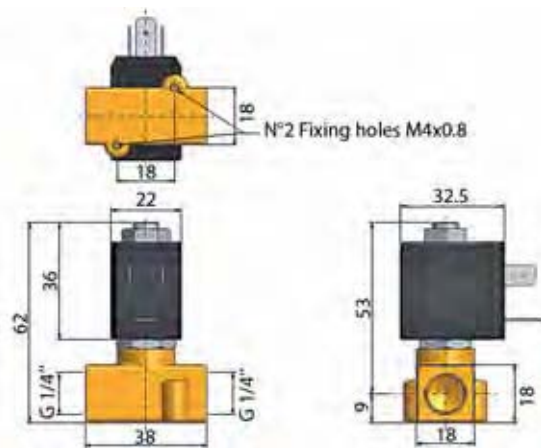
1. Ordering number is for an assembled valve and coil, with the voltage shown.



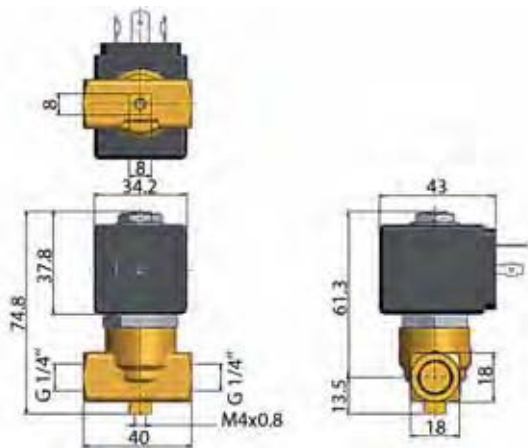
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2.5	2.2	1	-10	-10
To	1/4"	6	13	19	140	50



Drawing 034



Drawing 065



Drawing 035

2/2

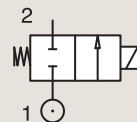
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



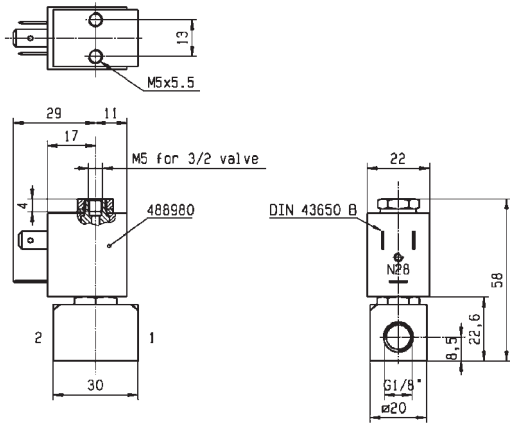
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/8"	1.5	0.9	0.05	70	0	20	12	-10	75	FKM	121M14	8993	481180	4	5	1.1	3382
	1.5	0.9	0.05	70	0	20	4	-10	75	FKM	121M14	8993	488980	2	2.5	1.1	3382
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K14	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121K14	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121K14	4270	486265	14	14	2.0	3510
	2	2	0.12	125	0	10	7	-10	75	FKM	121M13	8993	481180	4	5	1.1	3382
	2	2	0.12	125	0	10	2.5	-10	75	FKM	121M13	8993	488980	2	2.5	1.1	3382
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K23	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	E121K23	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	E121K23	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	121K1302	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8	-10	120	FKM	121K1302	4270	481000	8	8	2.0	3510
1/4"	3	4.5	0.27	320	0	10	10	-10	120	FKM	121K1302	4270	486265	14	14	2.0	3510
	1.2	0.85	0.05	50	0	80	36	-30	100	Ruby	E121K65	2995	481865	8	9	2.0	3510
	1.2	0.85	0.05	50	0	100	43	-30	130	Ruby	E121K65	4270	481000	8	8	2.0	3510
	1.2	0.85	0.05	50	0	100	75	-30	120	Ruby	E121K65	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	121K0497	2995	482740	-	1.6	6.0/8.0	8274
	1.5	1.5	0.09	80	0	10	10	-20	75	PUR	121K0497	-	495900	2.5	2	6.0/8.0	8274
	1.5	1.5	0.09	80	0	-	10	-20	75	PUR	121K0497	-	495910	* -	0.3 to 3	6.0/8.0	8274
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	121K0497	2995	496125	-	1.6	6.0/8.0	8274
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K04	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121K04	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121K04	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121K0402	2995	481865	8	9	2.0/3.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121K0402	4270	481000	8	8	2.0/3.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	E121K67	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	E121K67	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	E121K67	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121K0706	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121K0706	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121K0706	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	75	PCTFE	E121K07	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	75	PCTFE	E121K07	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	75	PCTFE	E121K07	4270	486265	14	14	2.0	3510

Notes:

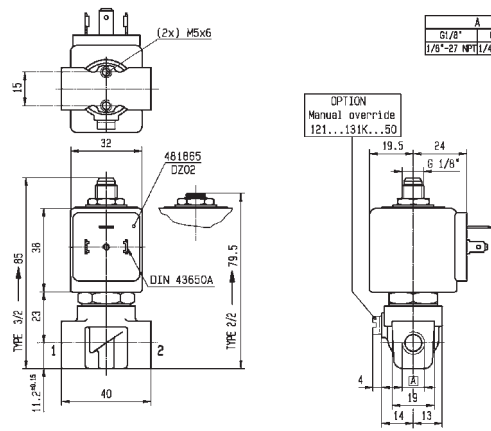
1. Valve compatible with water only up to 40°C



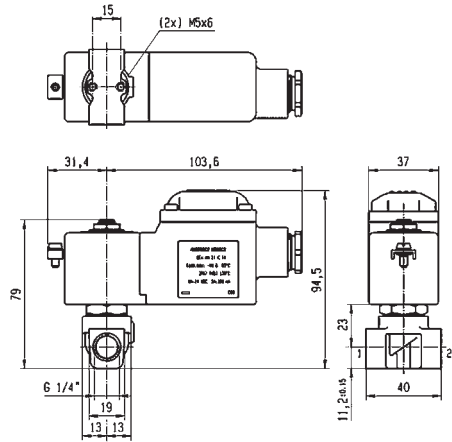
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.9	2.5	-30	-20
To	1/4"	3	4.5	100	130	50



Drawing 3382



Drawing 3510



Drawing 8274

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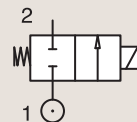
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



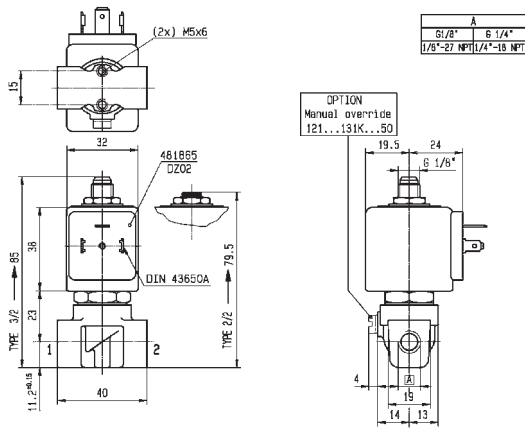
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
		Kv	Qn		Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C									
1/4"	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K63	2995	481865	8	9		2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	E121K63	4270	481000	8	8		2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	E121K63	4270	486265	14	14		2.0	3510
	3	3.5	0.21	250	0	-	2	-20	75	PUR	121K0397 ₁	2995	482740	-	1.6		6.0/8.0	8074
	3	3.5	0.21	250	0	4.5	4	-20	75	PUR	121K0397 ₁	-	495900	2.5	2		6.0/8.0	8074
	3	3.5	0.21	250	0	-	4.5	-20	75	PUR	121K0397 ₁	-	495910	*	-	0.3 to 3	6.0/8.0	8074
	3	3.5	0.21	250	0	-	2	-20	75	PUR	121K0397 ₁	2995	496125	-	1.6		6.0/8.0	8274
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	E121K03	2995	481865	8	9		2.0/3.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	E121K03	4270	481000	8	8		2.0/3.0	3510
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	E121K03	4270	486265	14	14		2.0/3.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	2995	481865	8	9		2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0302	4270	481000	8	8		2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	4270	486265	14	14		2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0352 ₂	2995	481865	8	9		2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0352 ₂	4270	481000	8	8		2.0	3510
	3	4.5	0.27	320	0	10	10	-10	120	FKM	E121K0352 ₂	4270	486265	14	14		2.0	3510
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	E121K64	2995	481865	8	9		2.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	E121K64	4270	481000	8	8		2.0	3510
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	E121K64	4270	486265	14	14		2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K02	2995	481865	8	9		2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K02	4270	481000	8	8		2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K02	4270	486265	14	14		2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K0250 ₂	2995	481865	8	9		2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K0250 ₂	4270	481000	8	8		2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K0250 ₂	4270	486265	14	14		2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K01	2995	481865	8	9		2.0/14.2	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K01	4270	481000	8	8		2.0/14.2	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K01	4270	486265	14	14		2.0/14.2	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K0106	2995	481865	8	9		2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K0106	4270	481000	8	8		2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K0106	4270	486265	14	14		2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K0150 ₂	2995	481865	8	9		2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K0150 ₂	4270	481000	8	8		2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K0150 ₂	4270	486265	14	14		2.0	3510

Notes:

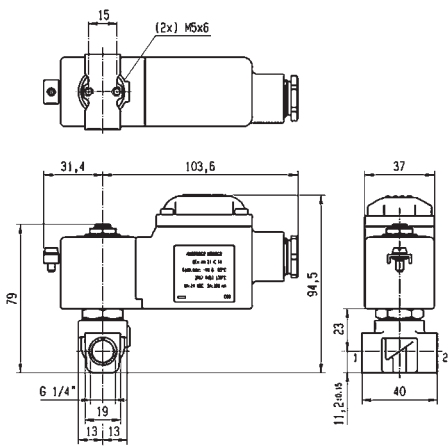
1. Valve compatible with water only up to 40°C
2. With manual override



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3.5	2	-30	-20
To	1/4"	5	11	50	130	50



Drawing 3510



Drawing 8274

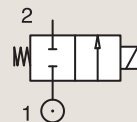
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

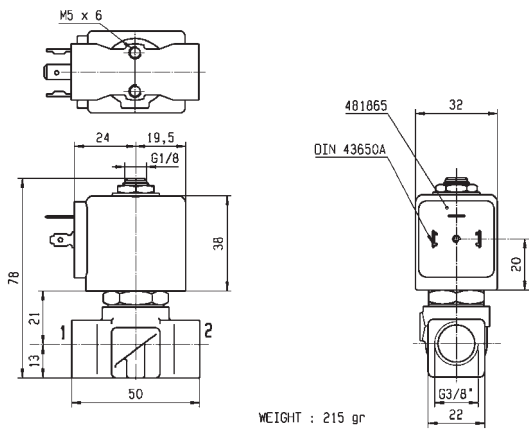
NORMALLY CLOSED



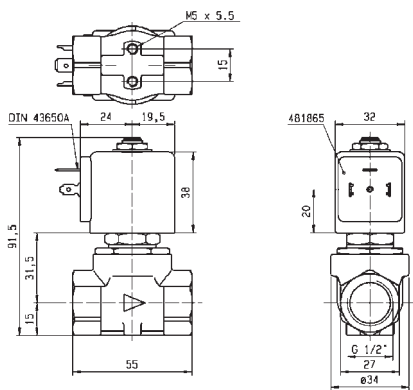
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	4	7.5	0.3	-10	-10
To	1/2"	11	36	10	120	50



Drawing 3551



Drawing 3427

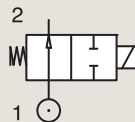
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VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

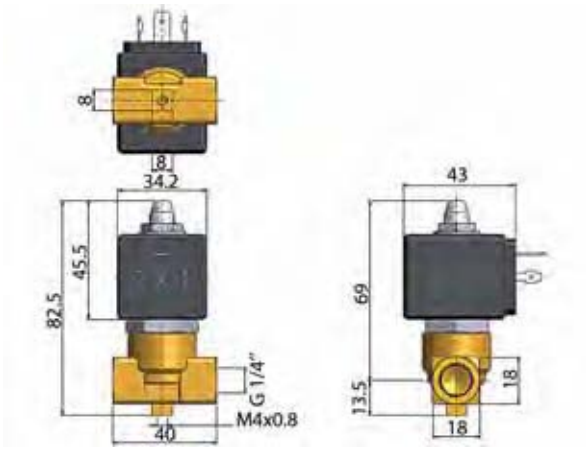
NORMALLY OPEN



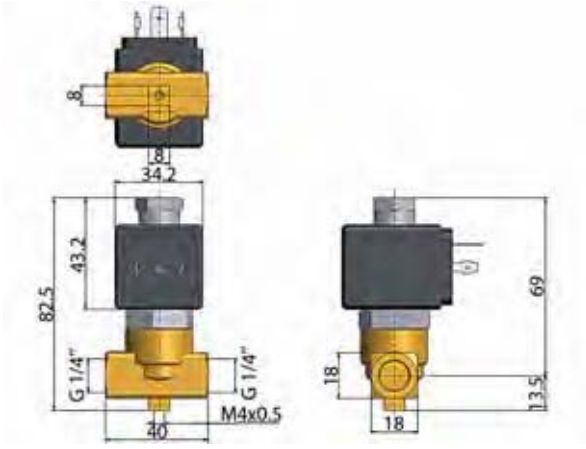
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
1/4"	1.5	1.3	0.08	-	0	22	-	-10	140	FKM	363745	PM151GV	ZB09	9	-	20.1/20.2	036
	1.5	1.3	0.08	-	0	-	22	-10	140	FKM	363745	PM151GV	ZB12	-	12	20.1/20.2	036
	2	1.8	0.11	-	0	18	-	-10	140	FKM	362290	PM136.2FV	ZB14	14	-	20.2	020
	2	1.8	0.11	-	0	-	18	-10	140	FKM	362290	PM136.2FV	ZB16	-	16	20.2	020
	2	2.5	0.15	-	0	12	-	-10	140	FKM	363570	PM151HV	ZB09	9	-	20.1/20.2	036
	2	2.5	0.15	-	0	-	12	-10	140	FKM	363570	PM151HV	ZB12	-	12	20.1/20.2	036
	3	4	0.24	-	0	5.5	-	-10	140	FKM	362286	PM136YV	ZB14	14	-	20.2	020
	3	4	0.24	-	0	-	5.5	-10	140	FKM	362286	PM136YV	ZB16	-	16	20.2	020



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.3	5.5	-10	-10
To	1/4"	3	4	22	140	50



Drawing 036



Drawing 020

2/2

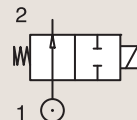
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN

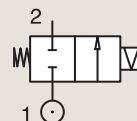


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/8"	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K9363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K9363	4270	486265	14	14	2.2	3510
1/4"	1.5	1.5	0.09	9.6	0	30	30	-10	100	PCTFE	122K84	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	9.6	0	30	30	-10	100	PCTFE	122K84	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	9.6	0	30	30	-10	120	PCTFE	122K84	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	122K8406	2995	481865	8	9	2.1	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	122K8406	4270	481000	8	8	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	100	Ruby	122K8408	2995	481865	8	9	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	481000	8	8	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	486265	14	14	2.0	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	2995	481865	8	9	2.1	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	4270	481000	8	8	2.1	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	4270	486265	14	14	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	100	FKM	122K8306	2995	481865	8	9	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	481000	8	8	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K8363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K8363	4270	486265	14	14	2.2	3510

BRASS

PIPE MOUNTING

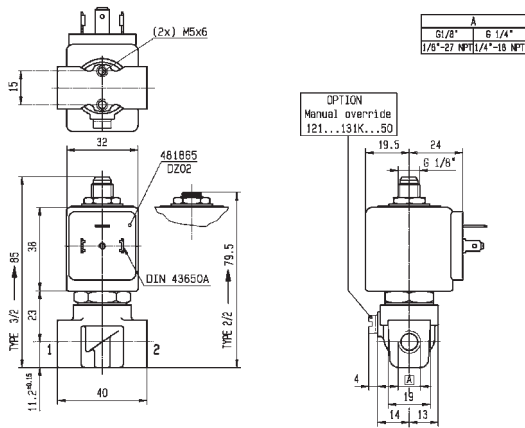
CONTROL BY ELECTRIC IMPULSE



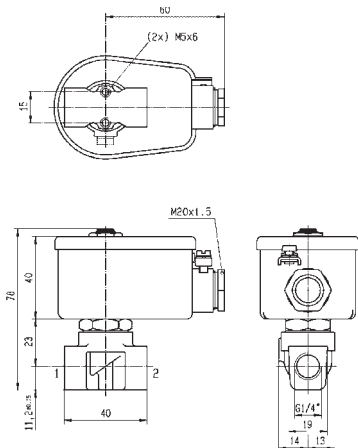
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	3	4.5	0.27	320	0	20	-	-30	75	PCTFE	125K03	4269	484990	11	-	4.0	8296
	3	4.5	0.27	320	0	-	7	-30	75	PCTFE	125K03	4269	485400	-	13	4.0	8296
	5	11	0.66	750	0	5	-	-10	100	FKM	125K01	4269	484990	11	-	4.0	8296
	5	11	0.66	750	0	-	1.5	-10	100	FKM	125K01	4269	485400	-	13	4.0	8296



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	1.5	-30	-10
To	1/4"	5	11	40	140	50



Drawing 3510



Drawing 8296

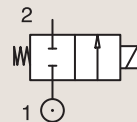
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

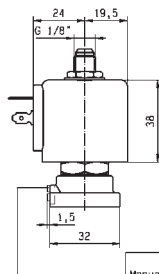
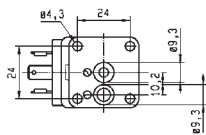
NORMALLY CLOSED



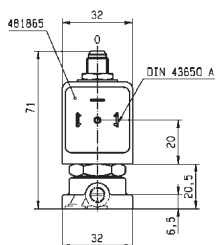
Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential Min Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	-	-10	100	EPDM	121F4417	2995	483510	9	-	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	121F67	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	121F67	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	121F67	4270	486265	14	14	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121F44	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121F44	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121F44	4270	486265	14	14	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121F4406	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121F4406	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121F4406	4270	486265	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	75	PCTFE	121F47	2995	481865	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	75	PCTFE	121F47	4270	481000	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	75	PCTFE	121F47	4270	486265	14	14	2.0	3509
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121F4706	2995	481865	8	9	2.0	3509
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121F4706	4270	481000	8	8	2.0	3509
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121F4706	4270	486265	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	121F63	2995	481865	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	121F63	4270	481000	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	121F63	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	10	-	-10	100	FKM	121F4317	2995	483510	9	-	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	121F64	2995	481865	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	121F64	4270	481000	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	121F64	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	E121F43	2995	481865	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	E121F43	4270	481000	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	E121F43	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121F4302	2995	481865	8	9	2.0/3.0	3509
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121F4302	4270	481000	8	8	2.0/3.0	3509
	3	4.5	0.27	320	0	10	10	-10	120	FKM	E121F4302	4270	486265	14	14	2.0/3.0	3509



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-30	-10
To	5 mm	3	4.5	100	130	50



OPTION
Manual override
121...131F...50



Drawing 3509

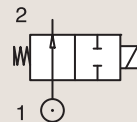
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

NORMALLY OPEN

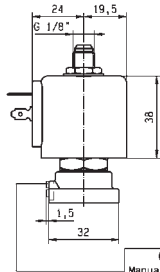
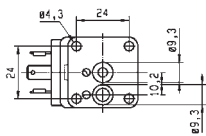


Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.				
		mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C					°C	AC W		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	122F44	2995	481865	8	9	2.1	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	122F44	4270	481000	8	8	2.1	3509

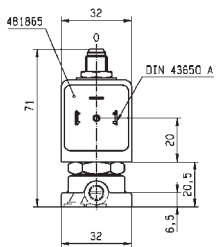
2 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	20	-10	-10
To	5 mm	1.5	1.5	20	120	50



OPTION
Manual override
121...131F...50



Drawing 3509

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
MAGNALIFT



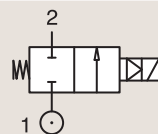
Commercial Equipment



Industrial Equipment

BRASS PIPE MOUNTING

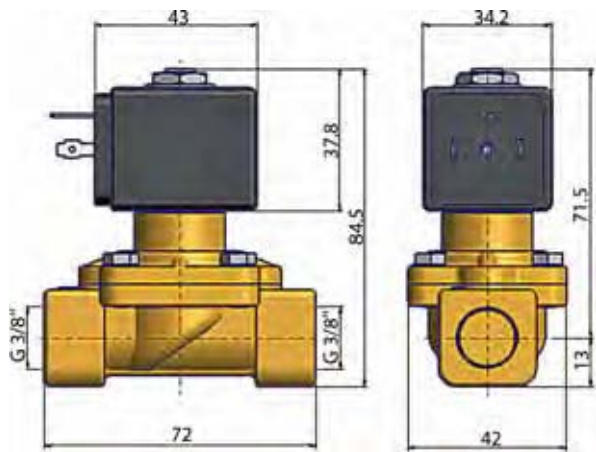
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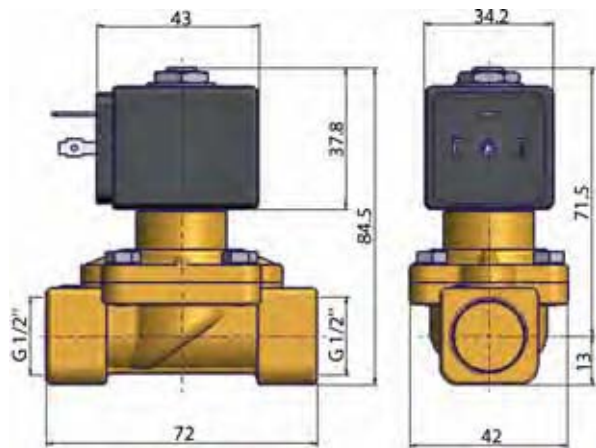
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
3/8"	13	40	2.4	-	0	5	-	-10	140	FKM	361810	PM123IV	ZB09	9	-	20.1	004
1/2"	13	40	2.4	-	0	5	-	-10	140	FKM	361850	PM123AV	ZB09	9	-	20.1	003
3/4"	20	100	6	-	0	3	-	-10	140	FKM	361910	PM123CV	JB14	14	-	21.0	005
1"	25	117	7	-	0	3	-	-10	140	FKM	361950	PM123DV	JB14	14	-	21.0	006



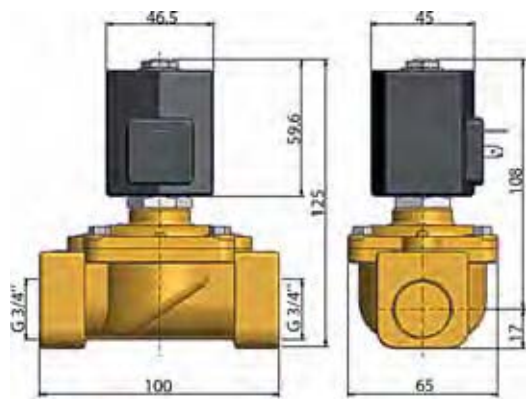
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	40	3	-10	-10
To	1"	25	117	5	140	50



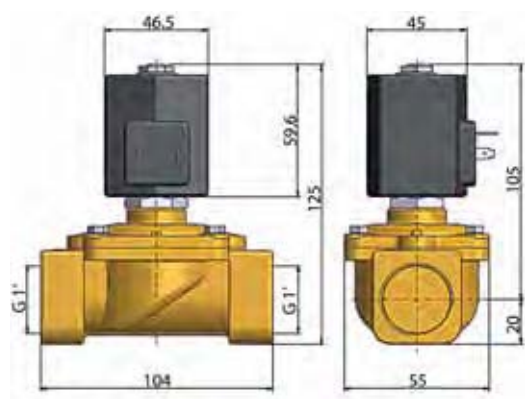
Drawing 004



Drawing 003



Drawing 005



Drawing 006

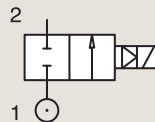
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED



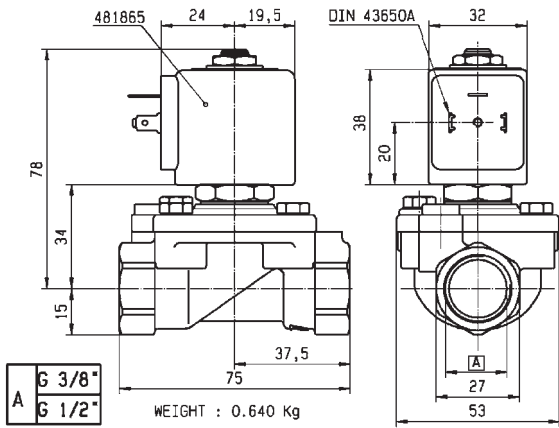
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/8"	15	65	3.9	4500	0	16	-	-10	100	NBR	221G13	2995	481865	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	-10	100	NBR	221G13	4270	481000	8	-	2.0	3732
	15	65	3.9	4500	0	16	7	-10	100	NBR	221G13	4270	486265	14	14	2.0	3732
	15	65	3.9	4500	0	16	-	0	100	FKM	221G23 ₁	2995	481865	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	0	120	FKM	221G23 ₁	4270	481000	8	-	2.0	3732
	15	65	3.9	4500	0	20	7	0	140	FKM	221G23 ₁	4270	486265	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	FKM	221G2330 ₁₂	2995	481865	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	100	FKM	221G2330 ₁₂	-	492070	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	100	FKM	221G2330 ₁₂	-	492190	11	9	2.1	3732
1/2"	15	65	3.9	4500	0	16	-	-10	100	NBR	221G15	2995	481865	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	-10	100	NBR	221G15	4270	481000	8	-	2.0	3732
	15	65	3.9	4500	0	16	7	-10	100	NBR	221G15	4270	486265	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	NBR	221G1530 ₂₃	2995	481865	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	NBR	221G1530 ₂₃	-	492070	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	NBR	221G1530 ₂₃	-	492190	11	9	2.1	3732
	15	65	3.9	4500	0	16	-	0	100	FKM	221G25 ₁	2995	481865	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	0	120	FKM	221G25 ₁	4270	481000	8	-	2.0	3732
	15	65	3.9	4500	0	20	7	0	140	FKM	221G25 ₁	4270	486265	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	FKM	221G2530 ₁₂	2995	481865	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	100	FKM	221G2530 ₁₂	-	492070	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	100	FKM	221G2530 ₁₂	-	492190	11	9	2.1	3732

Notes:

1. Valve only compatible with hydraulic oil and air/neutral gases
2. Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.
3. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	7	-10	-10
To	1/2"	15	65	20	140	50



Drawing 3732

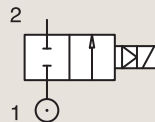
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED



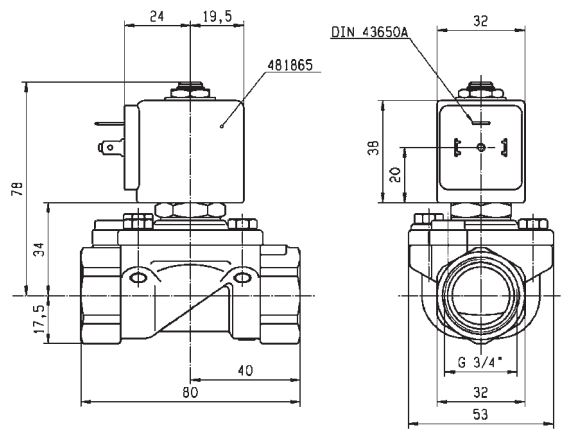
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/4"	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16 ₄	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16 ₄	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	7	7	-10	100	NBR	221G16 ₄	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610 ₃	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610 ₃	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1610 ₃	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1630 ₂₄	2995	481865	8	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630 ₂₄	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630 ₂₄	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1631 ₂₃₄	2995	481865	8	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631 ₂₃₄	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631 ₂₃₄	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	16	-	0	100	FKM	221G26 ₁	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	0	120	FKM	221G26 ₁	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	20	7	0	140	FKM	221G26 ₁	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	-	10	-10	100	FKM	221G2630 ₁₂	2995	481865	-	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630 ₁₂	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630 ₁₂	-	492190	11	9	2.1	3444

Notes:

1. Valve only compatible with hydraulic oil and air/neutral gases
2. Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.
3. With 4 position selector for controlled closure rate
4. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	80	7	-25	-10
To	3/4"	15	80	20	140	50



Drawing 3444

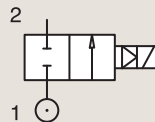
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED



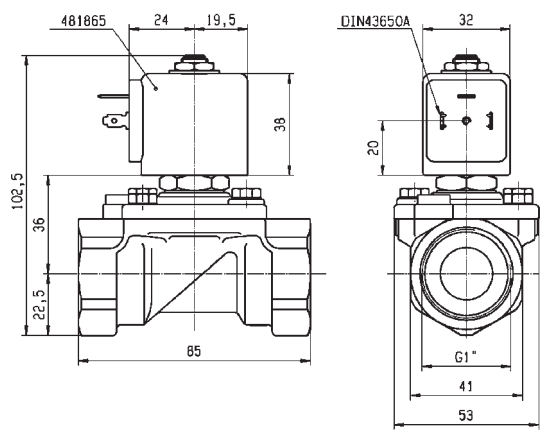
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	15	80	4.8	6000	0	16	-	-10	100	NBR	221G17	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	1	-10	100	NBR	221G17	4270	481000	8	8	2.0	3445
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G17	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1710 ₃	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1710 ₃	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1710 ₃	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1730 ₁₂₄	2995	481865	8	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	120	NBR	221G1730 ₁₂₄	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	120	NBR	221G1730 ₁₂₄	-	492190	11	9	2.1	3445
	15	80	4.8	6000	0	16	-	0	100	FKM	221G27 ₁	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	-	0	120	FKM	221G27 ₁	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	20	7	0	120	FKM	221G27 ₁	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	-	10	0	100	FKM	221G2730 ₁₂	2995	481865	-	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	65	FKM	221G2730 ₁₂	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	FKM	221G2730 ₁₂	-	492190	11	9	2.1	3445
	25	170	10.2	14000	0	16	-	-10	100	NBR	221G21	2995	481865	8	-	2.0	3448
	25	170	10.2	14000	0	16	-	-10	100	NBR	221G21	4270	481000	8	-	2.0	3448
	25	170	10.2	14000	0	16	6	-10	100	NBR	221G21	4270	486265	14	14	2.0	3448
	25	160	9.6	14000	0	16	-	0	100	FKM	221G2106 ₁	2995	481865	8	-	2.0	3448
	25	160	9.6	14000	0	16	-	0	120	FKM	221G2106 ₁	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	0	120	FKM	221G2106 ₁	4270	486265	14	14	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110 ₃	2995	481865	8	-	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110 ₃	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	-10	100	NBR	221G2110 ₃	4270	486265	14	14	2.0	3448
	25	170	10.2	14000	0	-	10	-10	100	NBR	221G2130 ₁₂₄	2995	481865	-	9	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	221G2130 ₁₂₄	-	492070	9	8	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	221G2130 ₁₂₄	-	492190	11	9	2.1	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136 ₁	2995	481865	-	9	2.0	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136 ₁	4270	481000	-	8	2.0	3448

Notes:

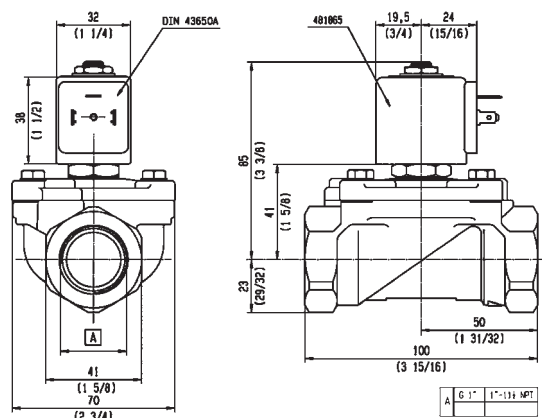
1. Valve only compatible with hydraulic oil and air/neutral gases
2. Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.
3. With 4 position selector for controlled closure rate
4. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	15	80	1	-25	-10
To	1"	25	170	20	120	50



Drawing 3445



Drawing 3448

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED



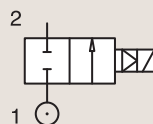
Commercial Equipment



Industrial Equipment

BRASS PIPE MOUNTING

NORMALLY CLOSED



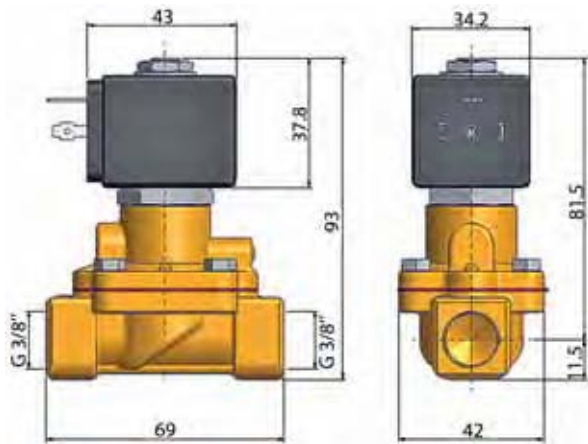
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	AC bar	DC bar	°C	°C								
3/8"	13	33	2	-	0.5	16	-	-10	90	NBR	366501 ¹	PM168.1IN	ZB09	9	-	20.1/20.2	048
	13	33	2	-	0.5	-	16	-10	90	NBR	366501 ¹	PM168.1IN	ZB12	-	12	20.1/20.2	048
	13	50	3	-	0.35	15	-	-10	90	NBR	366770	PM173IN	WB4.5	4.5	-	1.3	054
	13	50	3	-	0.35	-	12	-10	90	NBR	366770	PM173IN	WB5.0	-	5	1.3	054
1/2"	13	42	2.5	-	0.5	16	-	-10	90	NBR	366511 ¹	PM168.1AN	ZB09	9	-	20.1/20.2	046
	13	42	2.5	-	0.5	-	16	-10	90	NBR	366511 ¹	PM168.1AN	ZB12	-	12	20.1/20.2	046
	13	58	3.5	-	0.35	15	-	-10	90	NBR	366775	PM173AN	WB4.5	4.5	-	1.3	053
	13	58	3.5	-	0.35	-	12	-10	90	NBR	366775	PM173AN	WB5.0	-	5	1.3	053
3/4"	20	117	7	-	0.5	16	-	-10	90	NBR	366521 ¹	PM168.1CN	ZB09	9	-	20.1/20.2	046
	20	117	7	-	0.5	-	16	-10	90	NBR	366521 ¹	PM168.1CN	ZB12	-	12	20.1/20.2	046
1"	25	133	8	-	0.5	16	-	-10	90	NBR	366531 ¹	PM168.1DN	ZB09	9	-	20.1/20.2	047
	25	133	8	-	0.5	-	16	-10	90	NBR	366531 ¹	PM168.1DN	ZB12	-	12	20.1/20.2	047

Notes:

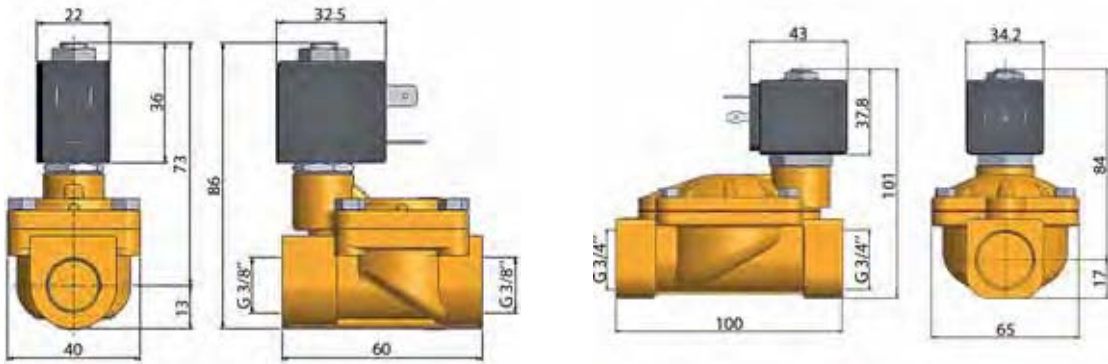
1. Valve only compatible with air and neutral gases



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	33	12	-10	-10
To	1"	25	133	16	90	50

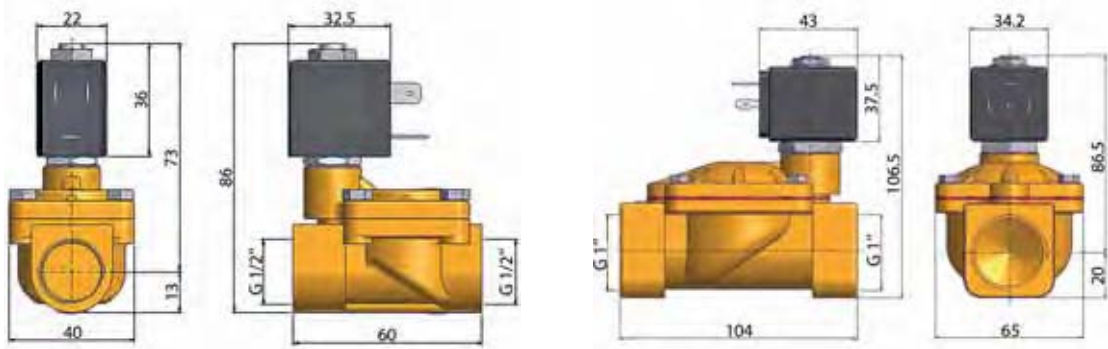


Drawing 048



Drawing 054

Drawing 046



Drawing 053

Drawing 047

2/2

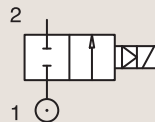
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

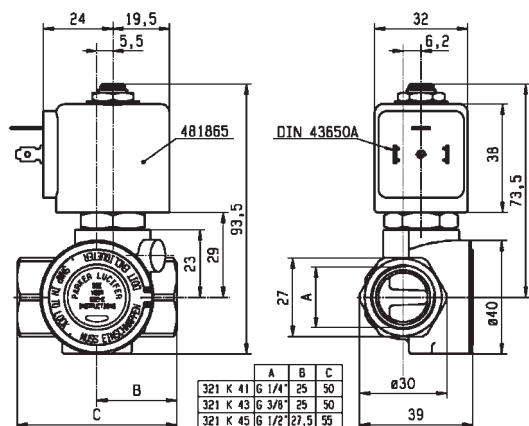
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 ¹²⁴	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 ¹²⁴	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 ¹²⁴	4270	486265	14	14	2.0	3523
	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	E321K10	4270	481000	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	321K31	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	321K31	8993	488980	2	2.5	1.1	7093
	12	30	1.8	2150	0.3	10	10	-10	100	FKM	321K3106	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	FKM	321K3106	8993	488980	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4156 ₃	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4156 ₃	4270	481000	8	8	2.1/3.0	7094

Notes:

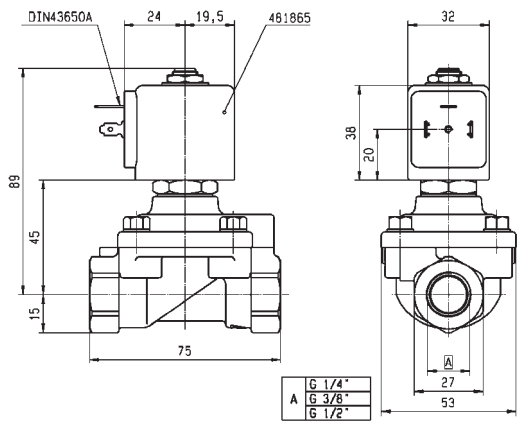
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override
4. With 4 position selector for controlled closure rate



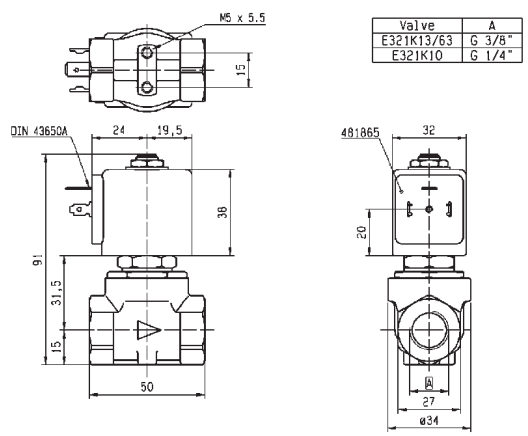
Drawing 7094



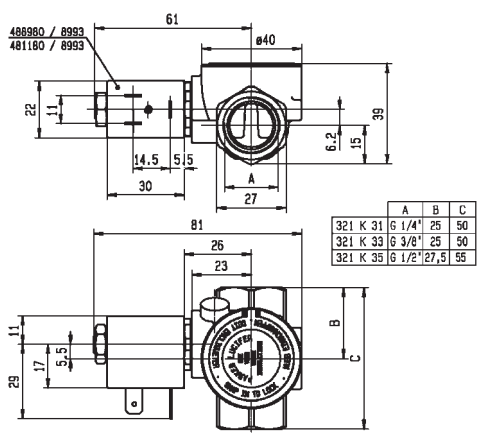
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	28	3	-10	-10
To	1/4"	12	36	40	120	50



Drawing 3523



Drawing 3429



Drawing 7093

2/2

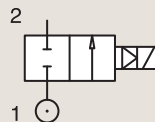
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

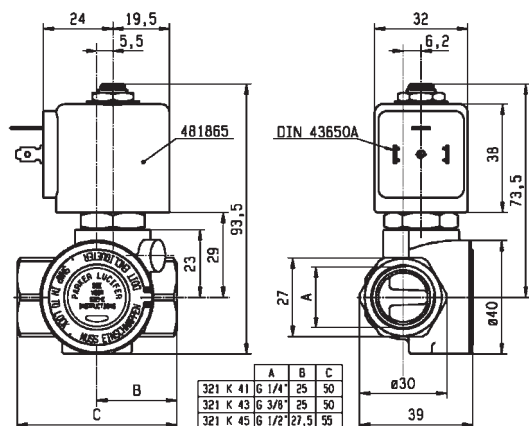
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 ¹²⁴	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 ¹²⁴	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 ¹²⁴	4270	486265	14	14	2.0	3521
	11	36	2.16	2500	0.2	10	4	-10	100	NBR	E321K13	4270	481000	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K13	4270	486265	14	14	2.0	3429
	11	36	2.16	2500	0.2	10	-	-10	100	NBR	E321K1314	2995	483466	8 to 11	-	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K1314	4270	486265	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	321K33	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	321K33	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	10	10	-10	100	FKM	321K3306 ¹	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	FKM	321K3306 ¹	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4356 ³	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4356 ³	4270	481000	8	8	2.1/3.0	7094

Notes:

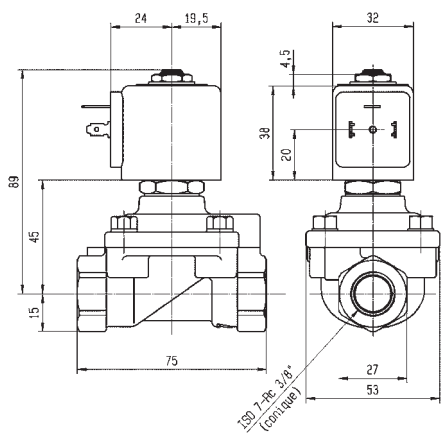
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override
4. With 4 position selector for controlled closure rate



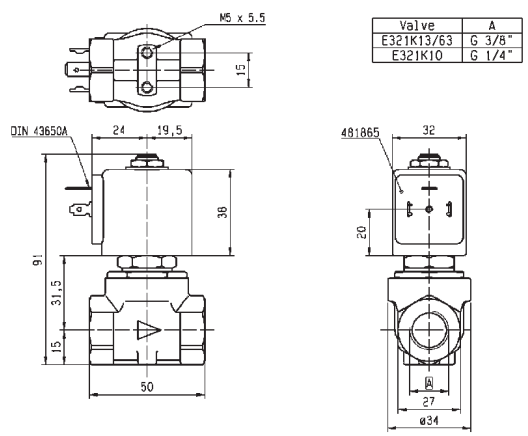
Drawing 7094



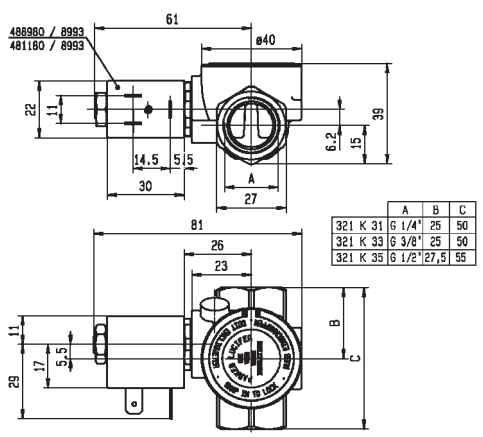
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	11	36	4	-10	-10
To	3/8"	12	50	40	120	50



Drawing 3521



Drawing 3429



Drawing 7093

2/2

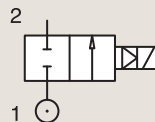
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

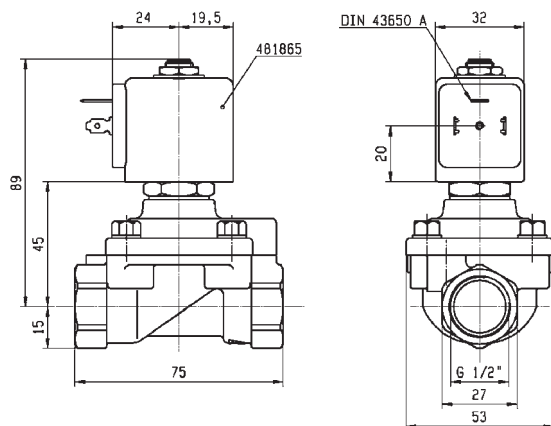
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	°C	°C									
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	8	9	2.0	3427	
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	E321K15	4270	486265	14	14	2.0	3427	
	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K1514	2995	481865	8	9	2.0	3427	
	11	36	2.16	2500	0.2	10	4	-10	120	NBR	E321K1514	-	483371	8	8	2.0	3427	
	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K25	2995	481865	8	9	2.0	3427	
	11	36	2.16	2500	0.2	4	4	-10	120	NBR	E321K25	-	492070	9	8	2.0	3427	
	12	50	3	3400	0.3	10	10	-10	100	NBR	321K35	8993	481180	4	5	1.1	7093	
	12	50	3	3400	0.3	10	7	-10	75	NBR	321K35	8993	488980	2	2.5	1.1	7093	
	12	50	3	3400	0.3	10	10	-10	100	FKM	321K3506	8993	481180	4	5	1.1	7093	
	12	50	3	3400	0.3	10	7	-10	75	FKM	321K3506	8993	488980	2	2.5	1.1	7093	
	15	60	3.6	3150	0.3	-	10	-10	100	NBR	321H1590	2995	483580.01	*	-	0.5 to 3	7.0/8.0	3978
	15	60	3.6	3150	0.3	-	10	-10	100	NBR	321H1590	-	488660.01	*	-	0.3 to 3	7.0/8.0	3978
	15	60	3.6	3150	0.3	-	10	-10	100	NBR	321H1590	-	495910	*	-	0.3 to 3	7.0/8.0	3978
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 ²³	2995	481865	8	9	2.1	3522	
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 ²³	4270	481000	8	8	2.1	3522	
	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 ¹²⁴	2995	481865	8	9	2.0	3522	
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15 ¹²⁴	4270	481000	8	8	2.0	3522	
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15 ¹²⁴	4270	486265	14	14	2.0	3522	

Notes:

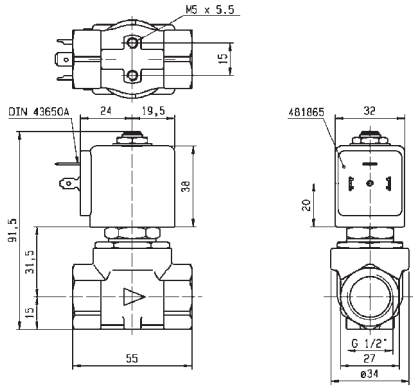
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override
4. With 4 position selector for controlled closure rate



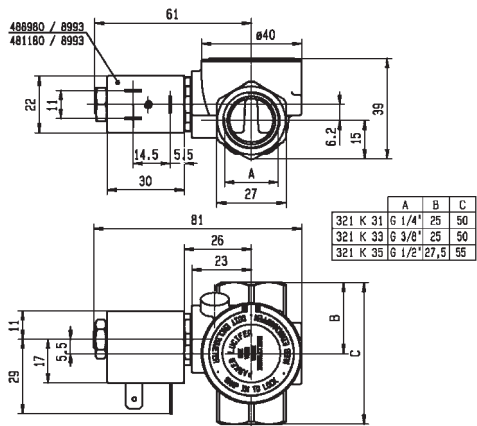
Drawing 3522



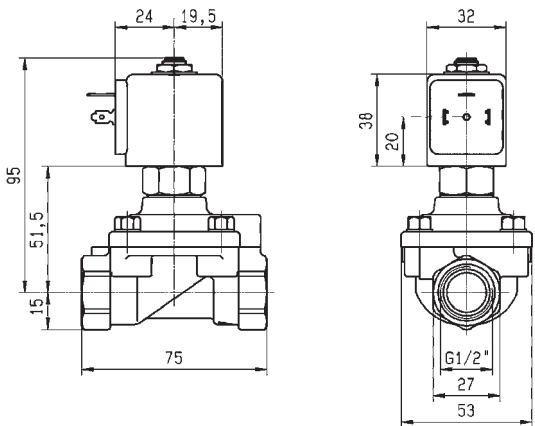
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	3	-10	-10
To	1/2"	15	60	40	120	50



Drawing 3427



Drawing 7093



Drawing 3978

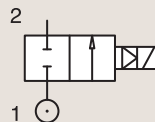
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



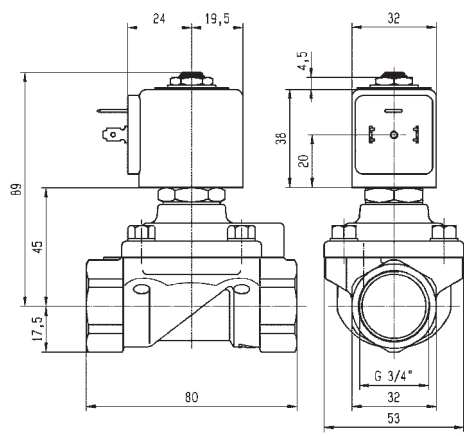
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/4"	15	-	-	3550	1.5	40	40	-10	50	PUR	321H36 ₁	2995	481865	8	9	2.1	3696
	15	-	-	3550	1.5	40	40	-10	50	PUR	321H36 ₁	4270	481000	8	8	2.1	3696
	18	100	6	9400	0.3	10	10	-10	100	NBR	321K36	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	321K36	8993	488980	2	2.5	1.1	7097
	18	100	6	9400	0.3	10	10	-10	100	FKM	321K3606	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	FKM	321K3606	8993	488980	2	2.5	1.1	7097
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	4270	481000	8	8	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	E321G3606	2995	481865	8	9	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	E321G3606	4270	481000	8	8	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	E321G3606	4270	486265	14	14	2.0/14.1	3442

Notes:

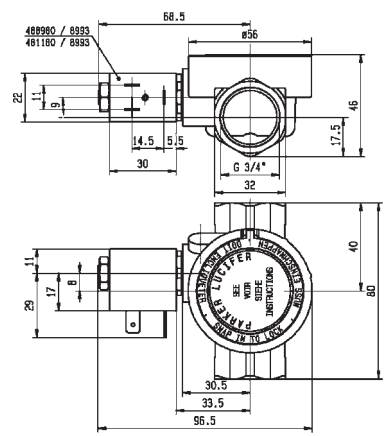
1. Pilot seat disc in synthetic Ruby



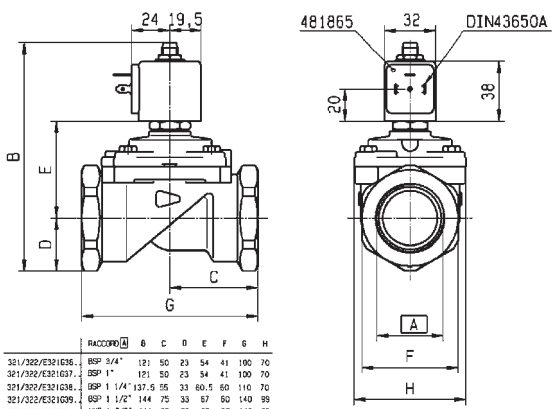
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	100	7	-10	-10
To	3/4"	20	135	40	120	50



Drawing 3696



Drawing 7097



Drawing 3442

	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36	BSP 3/4"	121	50	23	54	41	100	70	
321/322/E321G37	BSP 1"	121	50	23	54	41	100	70	
321/322/E321G38	BSP 1 1/4"	137	55	33	60.5	60	110	70	
321/322/E321G39	BSP 1 1/2"	144	75	33	67	60	140	99	
321G3966/G3967	UNF 1 7/8"	144	75	33	67	60	140	99	
U321A/G322G40...	BSP 2"	158.5	80	41.5	73	75	150	99	

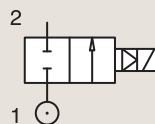
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	321K37	8993	481180		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	321K37	8993	488980		2	2.5	1.1	7098
	18	110	6.6	10150	0.3	10	10	-10	100	FKM	321K3706	8993	481180		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	FKM	321K3706	8993	488980		2	2.5	1.1	7098
	25	185	11.1	14100	0.3	-	10	-10	75	NBR	321G3790	2995	483580.01	*	-	0.5 to 3	7.0/8.0	3442
	25	185	11.1	14100	0.3	-	10	-10	75	NBR	321G3790	-	488660.01	*	-	0.3 to 3	7.0/8.0	3442
	25	185	11.1	14100	0.3	-	10	-10	75	NBR	321G3790	-	495910	*	-	0.3 to 3	7.0/8.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	2995	481865		8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	4270	481000		8	8	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	E321G3706	2995	481865		8	9	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	E321G3706	4270	481000		8	8	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	E321G3706	4270	486265		14	14	2.0/14.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	2995	481865		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	4270	481000		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	E321G3806	2995	481865		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	E321G3806	4270	481000		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	E321G3806	4270	486265		14	14	2.0	3442

2/2

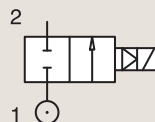
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



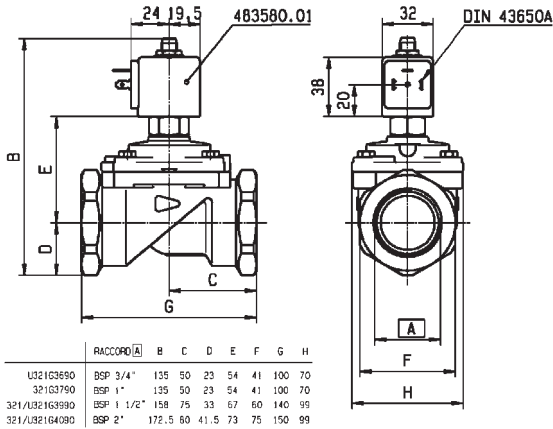
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm																	
1 1/2"	40	425	25.5	31500	0.5	-	10	-10	75	NBR	321G3990	2995	483580.01	*	-	0.5 to 3	7.0/8.0	8113
	40	425	25.5	31500	0.5	-	10	-10	75	NBR	321G3990	-	488660.01	*	-	0.3 to 3	7.0/8.0	8113
	40	425	25.5	31500	0.5	-	10	-10	75	NBR	321G3990	-	495910	*	-	0.3 to 3	7.0/8.0	8113
	40	420	25.2	31500	0.3	16	7	-10	100	NBR	E321G39 ₁	2995	481865		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	E321G39 ₁	4270	481000		8	8	2.0	3442
	40	420	25.2	31500	0.3	16	7	-10	100	FKM	E321G3906	2995	481865		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	120	FKM	E321G3906	4270	481000		8	8	2.0	3442
	40	420	25.2	31500	0.3	16	16	-10	100	FKM	E321G3906	4270	486265		14	14	2.0	3442
2"	40	540	32.4	38100	0.5	-	10	-10	75	NBR	321G4090	2995	483580.01	*	-	0.5 to 3	7.0/8.0	8113
	40	540	32.4	38100	0.5	-	10	-10	75	NBR	321G4090	-	488660.01	*	-	0.3 to 3	7.0/8.0	8113
	40	540	32.4	38100	0.5	-	10	-10	75	NBR	321G4090	-	495910	*	-	0.3 to 3	7.0/8.0	8113
	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G40 ₁	2995	481865		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	E321G40 ₁	4270	481000		8	8	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	100	FKM	E321G4006	2995	481865		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	120	FKM	E321G4006	4270	481000		8	8	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	120	FKM	E321G4006	4270	486265		14	14	2.0	3442

Notes:

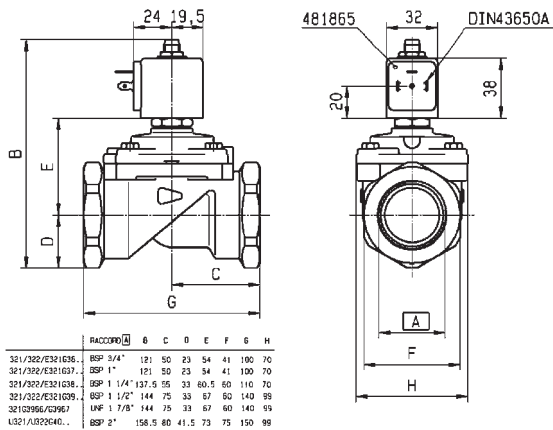
1. Pilot seat disc in synthetic Ruby



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1 1/2"	40	420	7	-10	-10
To	2"	40	540	16	120	50



Drawing 8113



Drawing 3442

2/2

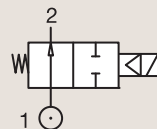
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

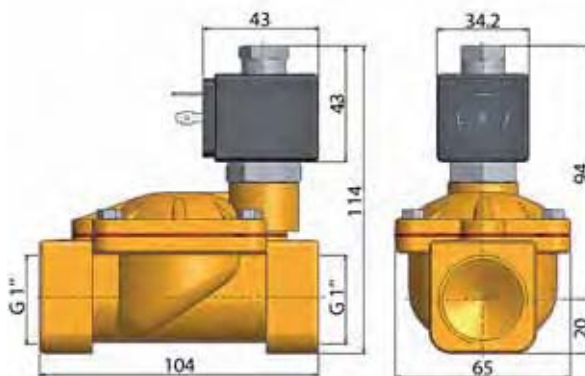
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
3/8"	13	33	2	-	0.5	-	16	-10	90	NBR	366601 ₁	PM169.1IN	ZB16	-	12	20.1/20.2	052
	13	33	2	-	0.5	16	-	-10	90	NBR	366601 ₁	PM169.1IN	ZH14	9	-	20.1/20.2	052
1/2"	13	42	2.5	-	0.5	-	16	-10	90	NBR	366606 ₁	PM169.1AN	ZB16	-	12	20.1/20.2	049
	13	42	2.5	-	0.5	16	-	-10	90	NBR	366606 ₁	PM169.1AN	ZH14	9	-	20.1/20.2	049
3/4"	20	117	7	-	0.5	-	16	-10	90	NBR	366611 ₁	PM169.1CN	ZB16	-	12	20.1/20.2	050
	20	117	7	-	0.5	16	-	-10	90	NBR	366611 ₁	PM169.1CN	ZH14	9	-	20.1/20.2	050
1"	25	133	8	-	0.5	-	16	-10	90	NBR	366616 ₁	PM169.1DN	ZB16	-	12	20.1/20.2	051
	25	133	8	-	0.5	16	-	-10	90	NBR	366616 ₁	PM169.1DN	ZH14	9	-	20.1/20.2	051

Notes:

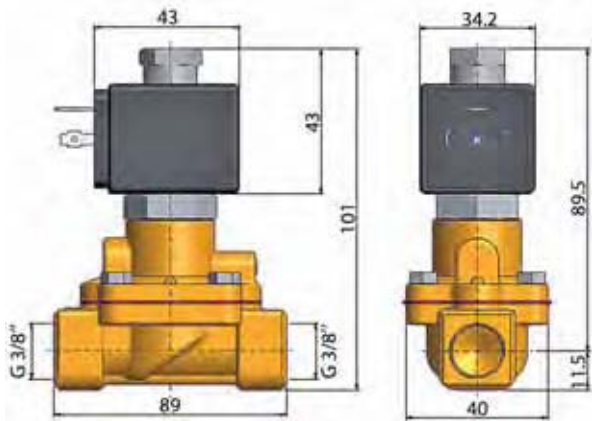
1. Valve only compatible with air and neutral gases



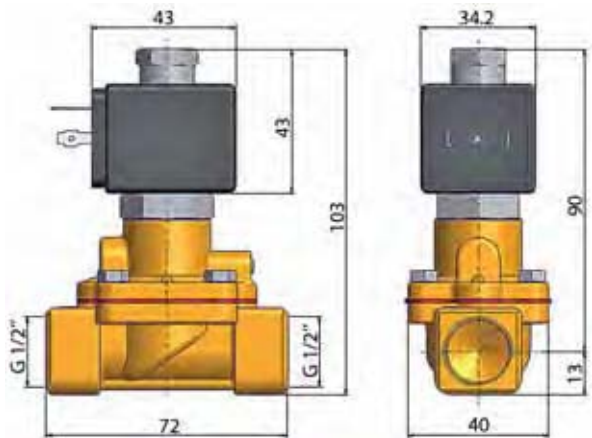
Drawing 051



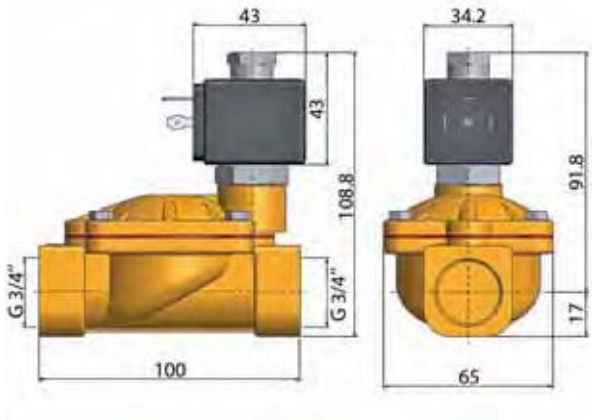
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	33	16	-10	-10
To	1"	25	133	16	90	50



Drawing 052



Drawing 049



Drawing 050

2/2

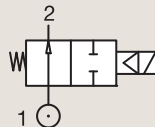
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



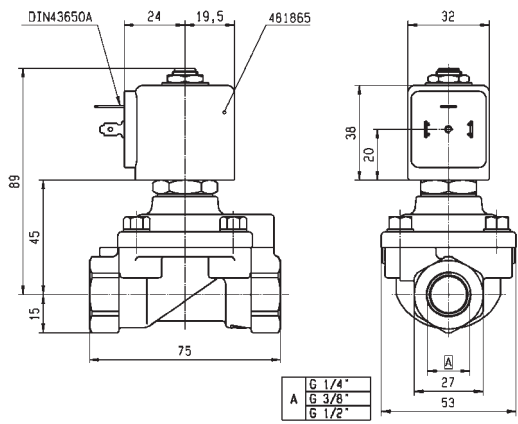
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	322H71 ₁₂	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	322H71 ₁₂	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	322H71 ₁₂	4270	486265	14	14	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	FKM	322H7106 ₁₂	2995	481865	8	9	2.0/14.1	3523
	8	36	2.16	1600	0.3	40	40	-10	120	FKM	322H7106 ₁₂	4270	481000	8	8	2.0/14.1	3523
	8	36	2.16	1600	0.3	40	40	-10	140	FKM	322H7106 ₁₂	4270	486265	14	14	2.0/14.1	3523
3/8"	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ₁₂	2995	481865	8	9	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ₁₂	4270	481000	8	8	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ₁₂	4270	486265	14	14	2.0	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	322H7306 ₁₂	2995	481865	8	9	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	322H7306 ₁₂	4270	481000	8	8	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	140	FKM	322H7306 ₁₂	4270	486265	14	14	2.0/14.1	3523
1/2"	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	2995	481865	8	9	2.1	3522
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	4270	481000	8	8	2.1	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ₁	2995	481865	8	9	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ₁	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ₁	4270	486265	14	14	2.0	3522
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	322H35 ₃	2995	481865	8	9	2.1	7569
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	322H35 ₃	4270	481000	8	8	2.1	7569
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ₁₂	2995	481865	8	9	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ₁₂	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ₁₂	4270	486265	14	14	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	FKM	322H7506 ₁₂	2995	481865	8	9	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	120	FKM	322H7506 ₁₂	4270	481000	8	8	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	140	FKM	322H7506 ₁₂	4270	486265	14	14	2.0/14.1	3522

Notes:

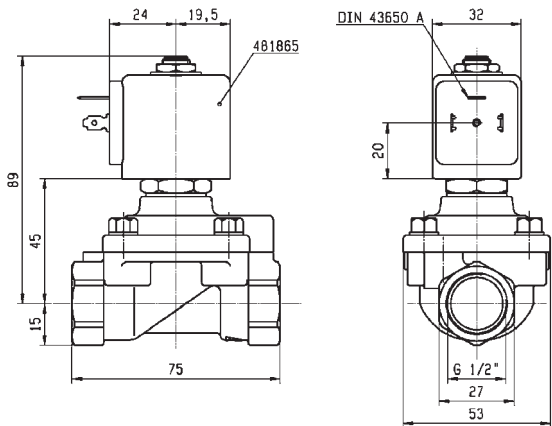
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve only compatible with air and neutral gases



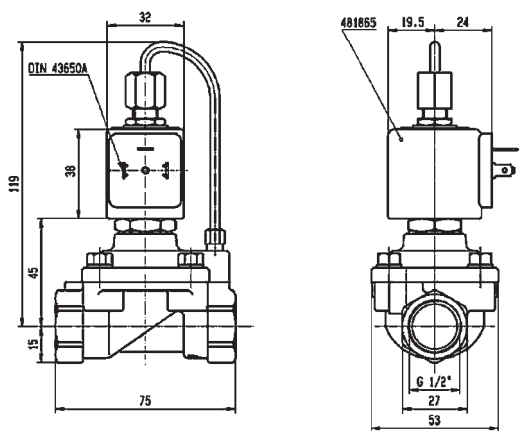
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	15	-10	-10
To	1/2"	15	60	40	140	50



Drawing 3523



Drawing 3522



Drawing 7569

2/2

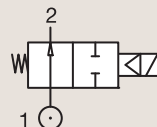
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



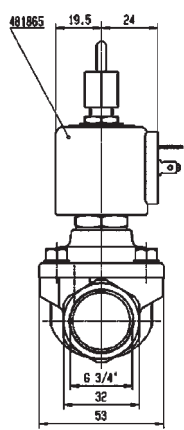
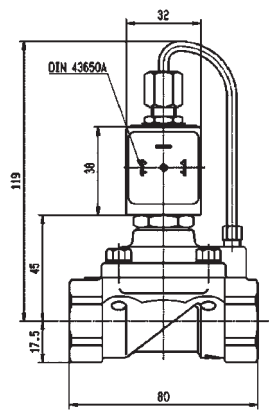
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/4"	15	-	-	3550	1.5	40	40	-10	50	PUR	322H36 ₁₂	2995	481865	8	9	2.1	7570
	15	-	-	3550	1.5	40	40	-10	50	PUR	322H36 ₁₂	4270	481000	8	8	2.1	7570
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	322G3606	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	322G3606	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	322G3706	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	322G3706	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	4270	481000	8	8	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	322G3806	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	322G3806	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	4270	481000	8	8	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	FKM	322G4006	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	120	FKM	322G4006	4270	481000	8	8	2.1	3442

Notes:

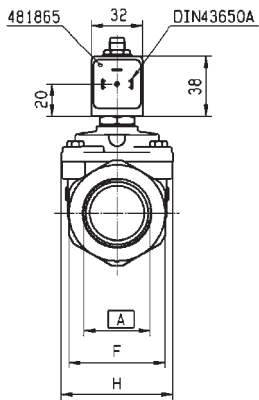
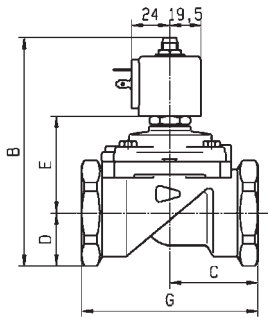
1. Minimum pressure differential = 1.5 bar for opening and 0.3 bar for closing
2. Valve only compatible with air and neutral gases



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	-	12	-10	-10
To	2"	40	540	40	120	50



Drawing 7570



Drawing 3442

	RACCORD(A)	6	C	D	E	F	G	H
321/322/E321G36...	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37...	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38...	BSP 1 1/4"	137.5	55	33	60.5	60	110	70
321/322/E321G39...	BSP 1 1/2"	144	75	33	67	60	140	99
321/322/E321G40...	BSP 2"	156.5	80	41.5	73	75	150	99

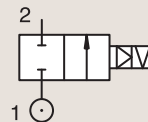
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

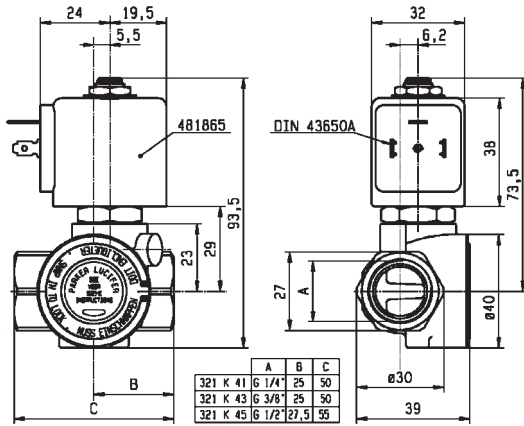
CONTROL BY ELECTRIC IMPULSE



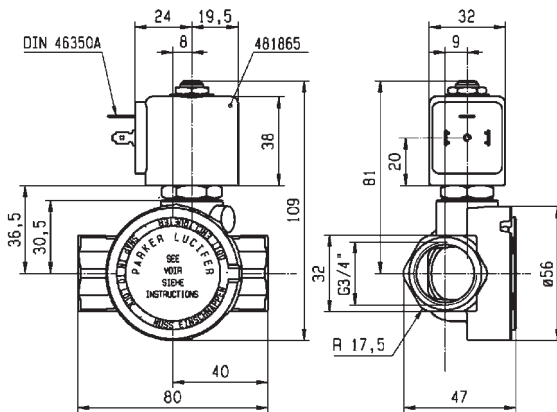
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	-	-10	100	FKM	325K4106	4269	484990	11	-	4.0	7094
	12	32	1.92	2150	0.3	-	12	-10	100	FKM	325K4106	4269	485400	-	13	4.0	7094
3/8"	12	45	2.7	3050	0.3	12	-	-10	100	FKM	325K4306	4269	484990	11	-	4.0	7094
	12	45	2.7	3050	0.3	-	12	-10	100	FKM	325K4306	4269	485400	-	13	4.0	7094
1/2"	12	50	3	3400	0.3	12	-	-10	100	FKM	325K4506	4269	484990	11	-	4.0	7094
	12	50	3	3400	0.3	-	12	-10	100	FKM	325K4506	4269	485400	-	13	4.0	7094
3/4"	18	100	6	9400	0.3	12	-	-10	100	FKM	325K4606	4269	484990	11	-	4.0	7099
	18	100	6	9400	0.3	-	12	-10	100	FKM	325K4606	4269	485400	-	13	4.0	7099
1"	18	110	6.6	10150	0.3	12	-	-10	100	FKM	325K4706	4269	484990	11	-	4.0	7100
	18	110	6.6	10150	0.3	-	12	-10	100	FKM	325K4706	4269	485400	-	13	4.0	7100



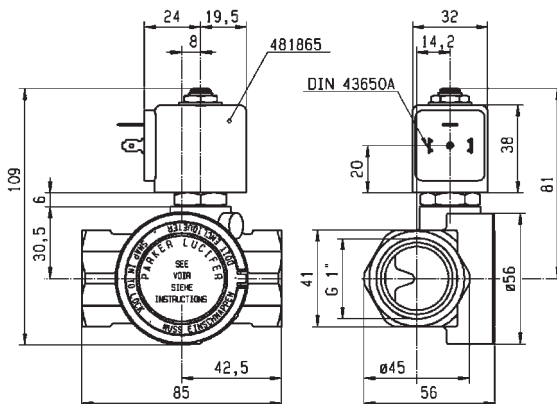
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	1"	18	110	12	100	50



Drawing 7094



Drawing 7099



Drawing 7100

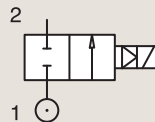
2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	14	-	-	2100	1.5	40	40	-10	50	PUR	321F35	2995	481865	8	9	2.0	3520
	14	-	-	2100	1.5	40	40	-10	50	PUR	321F35	2995	492425	14	14	2.0	3520
	14	-	-	2100	0	13	13	-10	50	PUR	421F35	2995	481865	8	9	2.1	3520
	14	45	2.7	2100	0.3	40	25	-10	100	NBR	E321F32 ₂	2995	481865	8	9	2.0	3520
	14	45	2.7	2100	0.3	40	30	-10	100	NBR	E321F32 ₂	4270	481000	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	40	-10	100	NBR	E321F32 ₂	4270	486265	14	14	2.0	3520
	14	45	2.7	-	0.3	40	25	-10	100	FKM	E321F3202 ₁₂₃₄	2995	481865	8	9	2.0	3520
	14	45	2.7	-	0.3	40	30	-10	120	FKM	E321F3202 ₁₂₃₄	4270	481000	8	8	2.0	3520
	14	45	2.7	-	0.3	40	40	-10	140	FKM	E321F3202 ₁₂₃₄	4270	486265	14	14	2.0	3520

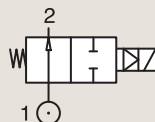
Notes:

1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve only compatible with hydraulic oil and neutral liquids
4. With 4 position selector for controlled closure rate

BRASS

SUB-BASE MOUNTING

NORMALLY OPEN



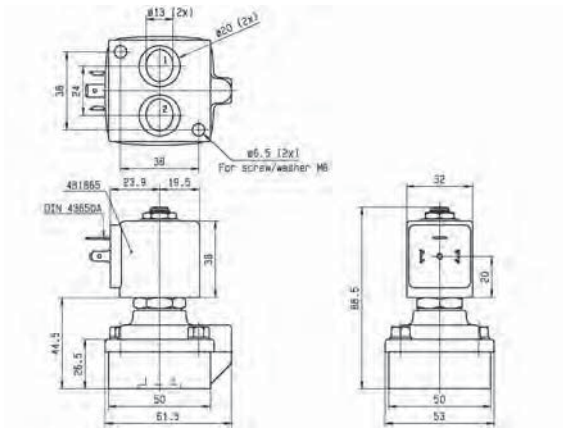
Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	14	-	-	2100	1.5	40	40	-10	50	PUR	322F35	2995	481865	8	9	2.1	7527
	14	46	2.76	-	0.3	40	40	-10	75	NBR	322F72 ₁₂₄	2995	481865	8	9	2.1	3520
	14	46	2.76	-	0.3	40	40	-10	75	NBR	322F72 ₁₂₄	4270	481000	8	8	2.1	3520
	14	45	2.7	-	0.3	40	40	0	100	FKM	322F7206 ₁₂₃₄	2995	481865	8	9	2.1/14.1	3520
	14	45	2.7	-	0.3	40	40	0	120	FKM	322F7206 ₁₂₃₄	4270	481000	8	8	2.1/14.1	3520

Notes:

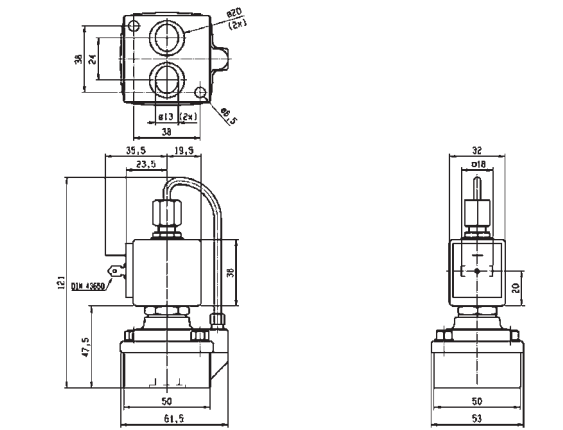
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve only compatible with hydraulic oil and neutral liquids
4. With 4 position selector for controlled closure rate



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	-	13	-10	-10
To	14 mm	14	46	40	140	50



Drawing 3520



Drawing 7527

2 WAY VALVES



VALVES FOR WATER AND NEUTRAL LIQUIDS



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.5 to 3	4.5	20	140	80	84
			1/4"	1.5 to 6	13	20	140	82	84
			3/8"	4 to 6	12	10	120	-	86
			1/2"	8.5 to 11	36	4	120	-	86
		Normally Open	1/4"	2.5	3	12	120	-	86
		Control by Electric Impulse	1/4"	5	11	5	100	-	88
Pilot Operated	Brass/Sub-base mounting	Normally Closed	SB	2 to 2.5	3	15	140	90	-
			5 mm	1.5 to 3	4.5	20	120	-	92
	Brass/Pipe mounting	Normally Closed	1/4"	11 to 12	32	12	120	-	98
			3/8"	11 to 13	50	20	140	94	98
			1/2"	11 to 13	50	20	140	94	100
			3/4"	18 to 20	140	20	140	94	102
			1"	18 to 28	270	20	140	94	104
			1 1/4"	35	420	10	140	96	-
			1 1/2"	40	500	16	140	96	104
			2"	40 to 50	620	16	140	96	104
		Normally Open	1/4"	12	32	12	120	-	108
			3/8"	12 to 13	50	20	140	106	108
			1/2"	12 to 15	60	20	140	106	108
			3/4"	18 to 20	140	20	140	106	108
			1"	18 to 25	180	20	140	106	110
			1 1/4"	35	420	10	140	106	-
			1 1/2"	40	500	12	140	106	110
			2"	50	620	10	140	106	-
			2 1/2"	65	1100	10	90	106	-
			3"	75	1334	10	90	106	-
	Brass/Sub-base mounting	Normally Closed	14 mm	14	45	40	100	-	110

2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

Commercial Equipment



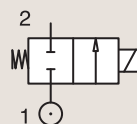
Beverage Dispensing



Heating Systems

BRASS
PIPE MOUNTING

NORMALLY CLOSED



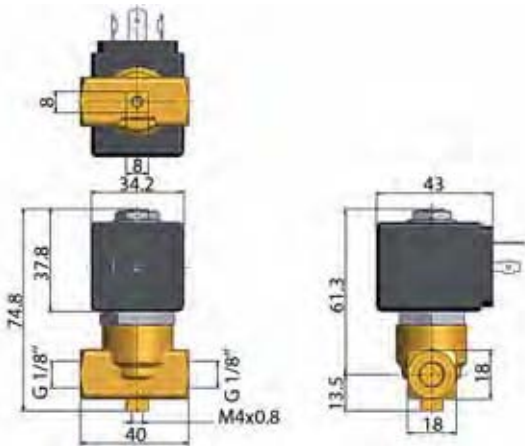
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	l/min	m³/h	Qn	m³/h	bar	AC bar	DC bar		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm									Min	Max	Min	Max	°C	°C		
1/8"	1.5	1.5	0.09	-	0	20	-	-10	140	FKM	363378	PM146BV	ZB09	9	-	20.1/20.2	034
	1.5	1.5	0.09	-	0	-	18	-10	140	FKM	363378	PM146BV	ZB12	-	12	20.1/20.2	034
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392349 ₁₂	161.4AV	KT09 115/50	9	-	22.0	043
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392355 ₁₂	161.4AV	KT09 230/50	9	-	22.0	043
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392335 ₁₂	161.4AV	KT09 24/50	9	-	22.0	043
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392366 ₁₂	161.4AV	KT09 240/50	9	-	22.0	043
	2.2	2	0.12	-	0	-	6	-10	140	FKM	392372 ₁₂	161.4AV	KT10 12 DC	-	10	22.0	043
	2.2	2	0.12	-	0	-	6	-10	140	FKM	392370 ₁₂	161.4AV	KT10 24 DC	-	10	22.0	043
	2.5	3.3	0.20	-	0	10	-	-10	140	FKM	363380	PM146FV	ZB09	9	-	20.1/20.2	034
	2.5	3.3	0.20	-	0	-	5	-10	140	FKM	363380	PM146FV	ZB12	-	12	20.1/20.2	034
	2.8	2.9	0.17	-	0	6	-	-10	140	FKM	392389 ₁₂	161.4BV	KT09 115/60	9	-	22.0	043
	2.8	2.9	0.17	-	0	6	-	-10	140	FKM	392388 ₁₂	161.4BV	KT09 230/50	9	-	22.0	043
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363390	PM146HV	ZB09	9	-	20.1/20.2	034
	3	4.5	0.27	-	0	-	2	-10	140	FKM	363390	PM146HV	ZB12	-	12	20.1/20.2	034

Notes:

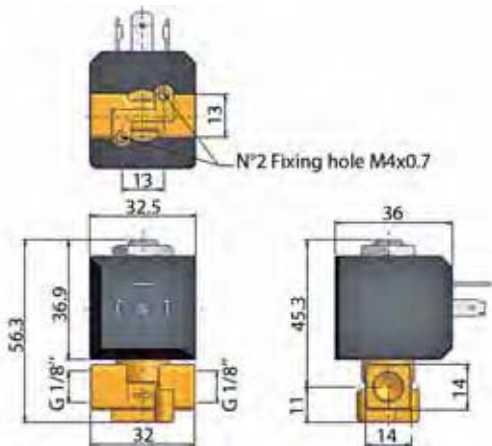
1. Maximum pressure for steam: 4 Bar (140°C)
2. Ordering number is for an assembled valve and coil, with the voltage shown.



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	2	-10	-10
To	1/8"	3	4.5	20	140	50



Drawing 034



Drawing 043

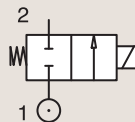
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



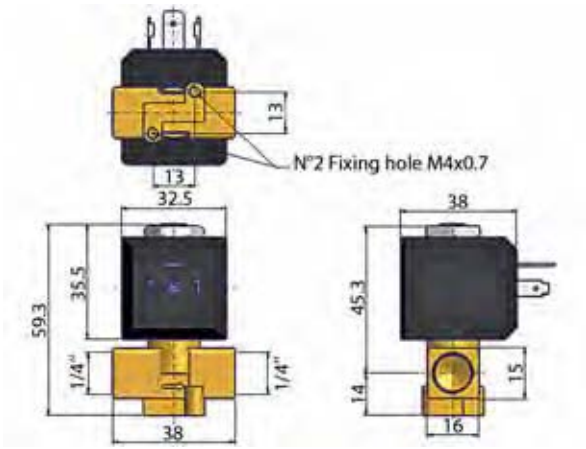
Port size	Orifice Ø	Flow factors			Operating Pressure Differential MinMax(MOPD)			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	bar	AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm																
1/4"	2.2	2	0.12	-	0	10	-	-10	140	FKM	392408 ₁₂	161.4EV	KT09 115/50	9	-	22.0	044
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392408 ₁₂	161.4EV	KT09 115/60	9	-	22.0	044
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392409 ₁₂	161.4EV	KT09 208-230/60	9	-	22.0	044
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392395 ₁₂	161.4EV	KT09 230/50	9	-	22.0	044
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392173 ₁₂	161.4EV	KT09 24/50	9	-	22.0	044
	2.2	2	0.12	-	0	10	-	-10	140	FKM	392396 ₁₂	161.4EV	KT09 240/50	9	-	22.0	044
	2.2	2	0.12	-	0	-	6	-10	140	FKM	392170 ₁₂	161.4EV	KT10 12V DC	-	10	22.0	044
	2.2	2	0.12	-	0	-	6	-10	140	FKM	392169 ₁₂	161.4EV	KT10 24 DC	-	10	22.0	044
	3	4.5	0.27	-	0	7	-	-10	140	FKM	363444	PM146YV	ZB09	9	-	20.1/20.2	035
	3	4.5	0.27	-	0	-	2	-10	140	FKM	363444	PM146YV	ZB12	-	12	20.1/20.2	035
	4.5	9	0.53	-	0	6	-	-10	140	FKM	363457	PM146.3KV	ZB14	14	-	20.2	035
	4.5	9	0.53	-	0	-	2.5	-10	140	FKM	363457	PM146.3KV	ZB16	-	16	20.2	035
	6	13	0.75	-	0	6	-	-10	140	FKM	363467	PM146.3ABV	ZB14	14	-	20.2	035
	6	13	0.75	-	0	-	1	-10	140	FKM	363467	PM146.3ABV	ZB16	-	16	20.2	035

Notes:

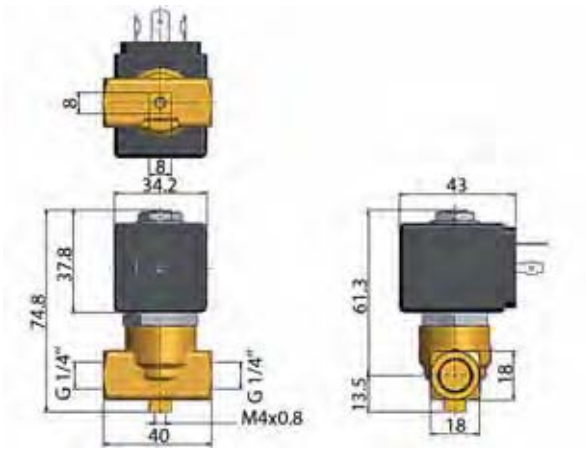
1. Maximum pressure for steam: 4 Bar (140°C)
2. Ordering number is for an assembled valve and coil, with the voltage shown.



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.2	2	1	-10	-10
To	1/4"	6	13	10	140	50



Drawing 044



Drawing 035

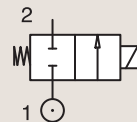
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



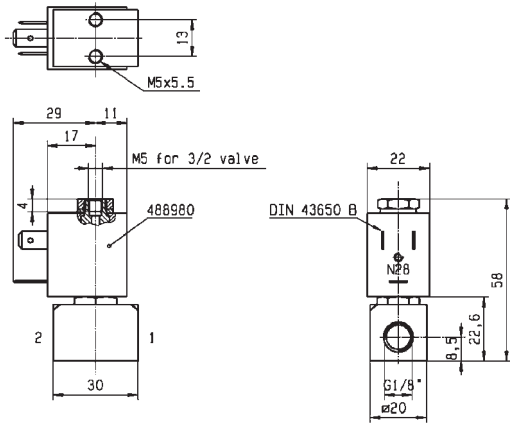
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/8"	1.5	0.9	0.05	70	0	20	12	-10	75	FKM	121M14	8993	481180	4	5	1.1	3382
	1.5	0.9	0.05	70	0	20	4	-10	75	FKM	121M14	8993	488980	2	2.5	1.1	3382
	2	2	0.12	125	0	10	7	-10	75	FKM	121M13	8993	481180	4	5	1.1	3382
	2	2	0.12	125	0	10	2.5	-10	75	FKM	121M13	8993	488980	2	2.5	1.1	3382
1/4"	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121K0402	2995	481865	8	9	2.0/3.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121K0402	4270	481000	8	8	2.0/3.0	3510
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121K0706	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121K0706	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121K0706	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0302	4270	481000	8	8	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0352 ₁	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0352 ₁	4270	481000	8	8	2.0	3510
	3	4.5	0.27	320	0	10	10	-10	120	FKM	E121K0352 ₁	4270	486265	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K02	2995	481865	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K02	4270	481000	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K02	4270	486265	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K0250 ₁	2995	481865	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K0250 ₁	4270	481000	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K0250 ₁	4270	486265	14	14	2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K01	2995	481865	8	9	2.0/14.2	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K01	4270	481000	8	8	2.0/14.2	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K01	4270	486265	14	14	2.0/14.2	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K0106	2995	481865	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K0106	4270	481000	8	8	2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K0106	4270	486265	14	14	2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K0150 ₁	2995	481865	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K0150 ₁	4270	481000	8	8	2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K0150 ₁	4270	486265	14	14	2.0	3510

Notes:

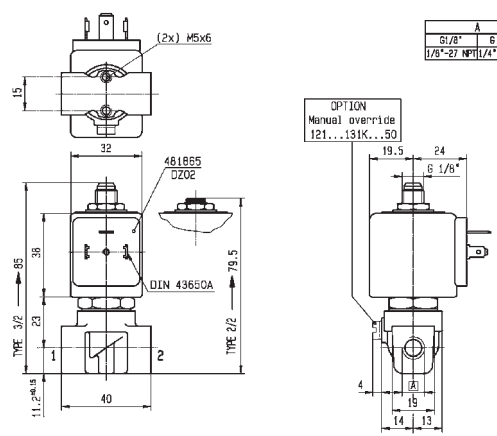
1. With manual override



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	0.9	2	-10	-10
To	1/4"	5	11	20	120	50



Drawing 3382



Drawing 3510

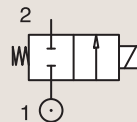
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

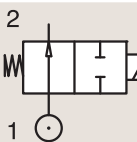


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

BRASS

PIPE MOUNTING

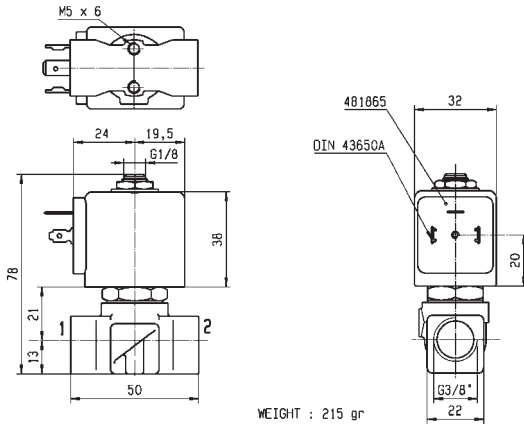
NORMALLY OPEN



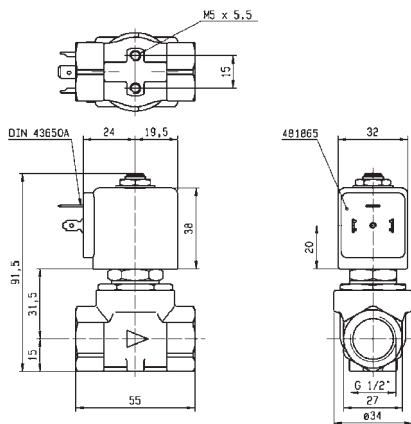
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	2.5	3	0.18	180	0	12	12	-10	100	FKM	122K8306	2995	481865	8	9	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	481000	8	8	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	486265	14	14	2.0	3510



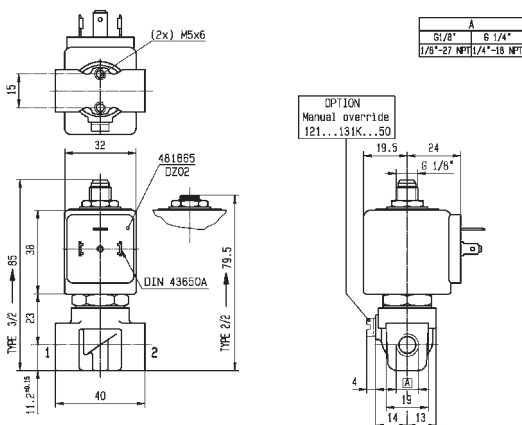
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3	0.3	-10	-10
To	1/2"	11	36	12	120	50



Drawing 3551



Drawing 3427



Drawing 3510



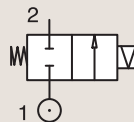
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

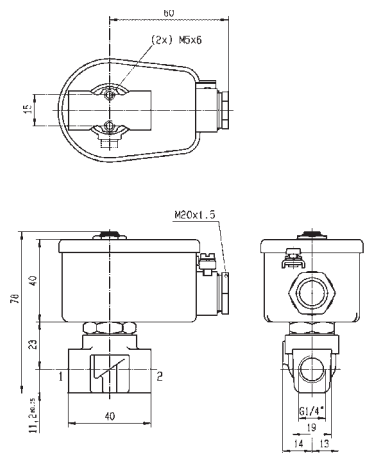
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	5	11	0.66	750	0	5	-	-10	100	FKM	125K01	4269	484990	11	-	4.0	8296
	5	11	0.66	750	0	-	1.5	-10	100	FKM	125K01	4269	485400	-	13	4.0	8296



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	5	11	1.5	-10	-10
To	1/4"	5	11	5	100	50



Drawing 8296

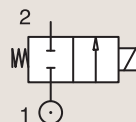
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

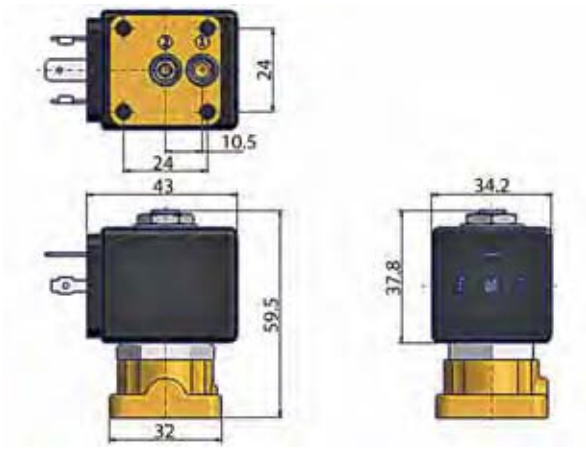
NORMALLY CLOSED



Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
SB	2	2	0.12	-	0	15	-	-10	140	FKM	360469	PM125BV	ZB09	9	-	20.1/20.2	007
	2.5	3	0.18	-	0	10	-	-10	140	FKM	397146J	PM125CV.2	ZB09	9	-	20.1/20.2	007



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2	10	-10	-10
To	SB	2.5	3	15	140	50



Drawing 007

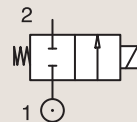
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

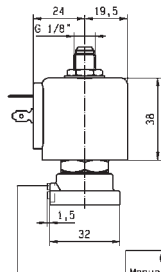
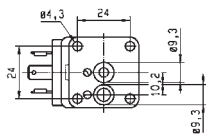
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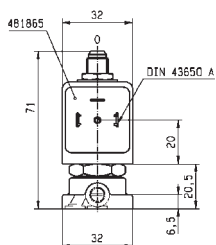
Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121F4406	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121F4406	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121F4406	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121F4302	2995	481865	8	9	2.0/3.0	3509
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121F4302	4270	481000	8	8	2.0/3.0	3509
	3	4.5	0.27	320	0	10	10	-10	120	FKM	E121F4302	4270	486265	14	14	2.0/3.0	3509



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-10	-10
To	5 mm	3	4.5	20	120	50



OPTION
Manual override
121...131F...50



Drawing 3509

2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

Commercial Equipment



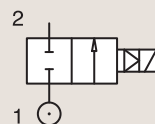
Industrial Equipment



Medical / Instrumentation

BRASS
PIPE MOUNTING

NORMALLY CLOSED



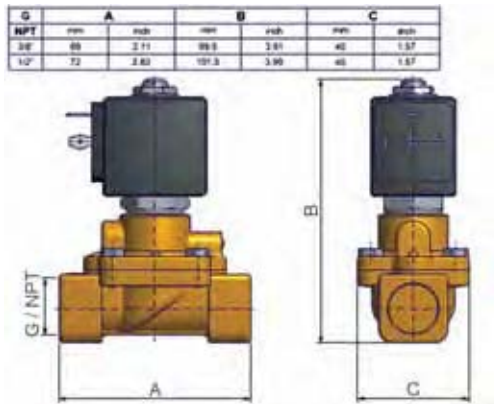
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
3/8"	13	50	3	-	0.1	10	10	-10	140	EPDM	443778W ₁	7321BIH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443776W	7321BIN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443777W ₂	7321BIN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444492W	7321BIV00	481865	8	9	2.0	028
1/2"	13	50	3	-	0.1	10	10	-10	140	EPDM	443781W ₁	7321BAH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443779W	7321BAN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443780W ₂	7321BAN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444494W	7321BAV00	481865	8	9	2.0	028
3/4"	20	140	8.4	-	0.1	10	10	-10	140	EPDM	443785W ₁	7321BCH00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	90	NBR	443782W	7321BCN00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	10	10	-10	90	NBR	443783W ₂	7321BCN01	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444497W	7321BCV00	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	140	EPDM	443789W ₁	7321BDH00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	90	NBR	443786W	7321BDN00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	10	10	-10	90	NBR	443787W ₂	7321BDN01	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	140	FKM	443804W	7321BDV00	481865	8	9	2.0	057

Notes:

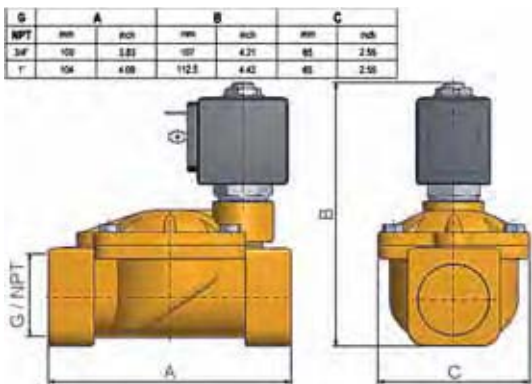
1. Maximum pressure for steam: 4 Bar (140°C)
2. With manual override



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	50	10	-10	-10
To	1"	25	160	20	140	50



Drawing 028



Drawing 057

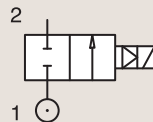
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
											Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn m³/h	bar	AC bar	DC bar	Min °C	Max °C								
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	443793W ₁	7321BEH00	481865	8	9	2.0	058
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443790W	7321BEN00	481865	8	9	2.0	058
	35	420	25.2	-	0.1	5	5	-10	90	NBR	443791W ₂	7321BEN01	481865	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	443797W ₁	7321BFH00	481865	8	9	2.0	058
	40	500	30	-	0.1	10	10	-10	90	NBR	443794W	7321BFN00	481865	8	9	2.0	058
	40	500	30	-	0.1	5	5	-10	90	NBR	443795W ₂	7321BFN01	481865	8	9	2.0	058
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	443801W ₁	7321BGH00	481865	8	9	2.0	058
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443798W	7321BGN00	481865	8	9	2.0	058
	50	620	37.2	-	0.1	5	5	-10	90	NBR	443799W ₂	7321BGN01	481865	8	9	2.0	058

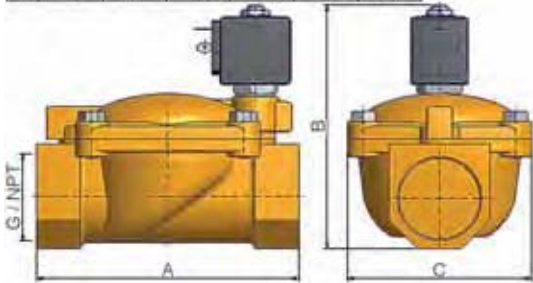
Notes:

1. Maximum pressure for steam: 4 Bar (140°C)
2. With manual override



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1 1/4"	35	420	5	-10	-10
To	2"	50	620	10	140	50

Q	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1/4"	145	5.75	124	4.92	102	4.02
1/2"	145	5.75	134	5.27	102	4.02
3/4"	173	6.81	148	5.82	118	4.64



Drawing 058

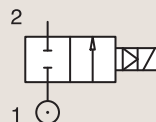
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/4"	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	E321K10	4270	481000	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	321K31	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	321K31	8993	488980	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4106	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4106	4270	481000	8	8	2.1/3.0	7094
3/8"	11	36	2.16	2500	0.2	10	4	-10	100	NBR	E321K13	4270	481000	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K13	4270	486265	14	14	2.0	3429
	11	36	2.16	2500	0.2	10	-	-10	100	NBR	E321K1314	2995	483466	8 to 11	-	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K1314	4270	486265	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	321K33	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	321K33	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4306	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4306	4270	481000	8	8	2.1/3.0	7094

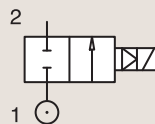
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



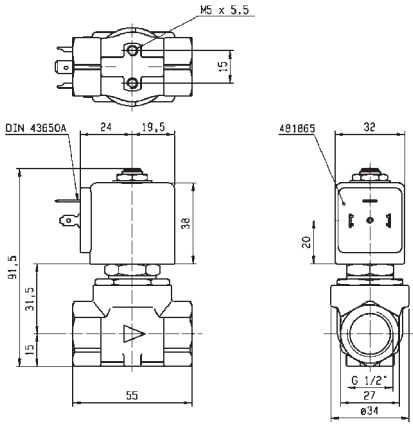
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	E321K15	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K1514	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	4	-10	120	NBR	E321K1514	-	483371	8	8	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K25	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	4	4	-10	120	NBR	E321K25	-	492070	9	8	2.0	3427
	12	50	3	3400	0.3	10	10	-10	100	NBR	321K35	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	NBR	321K35	8993	488980	2	2.5	1.1	7093
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4506	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4506	4270	481000	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4556	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556	4270	481000	8	8	2.1/3.0	7094

Notes:

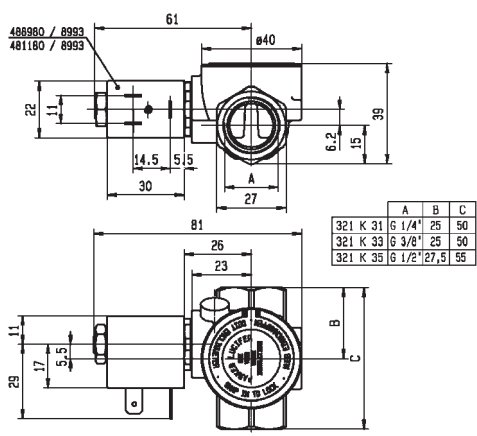
1. With manual override



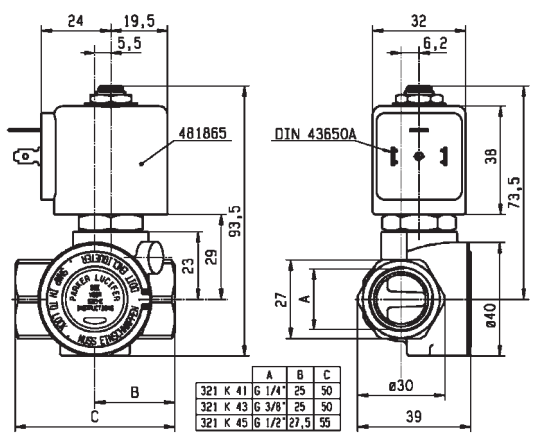
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	3	-10	-10
To	1/2"	12	50	12	120	50



Drawing 3427



Drawing 7093



Drawing 7094

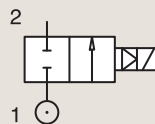
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



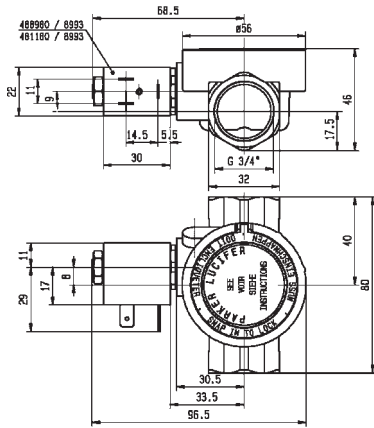
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.				
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C					AC W	DC W		
3/4"	18	100	6	9400	0.3	10	10	-10	100	NBR	321K36	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	321K36	8993	488980	2	2.5	1.1	7097
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4606	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4606	4270	481000	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4656 ₁	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4656 ₁	4270	481000	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	4270	481000	8	8	2.0	3442

Notes:

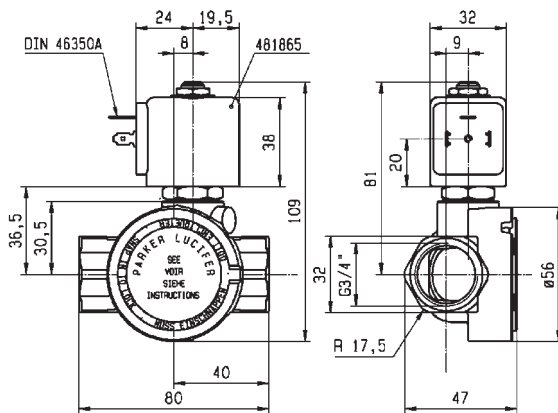
1. With manual override



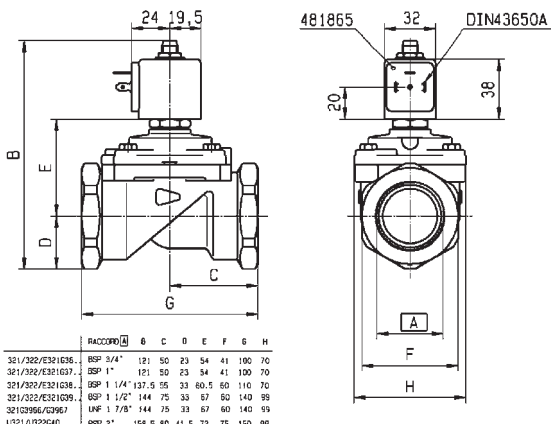
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	18	100	7	-10	-10
To	3/4"	20	135	16	120	50



Drawing 7097



Drawing 7099



Drawing 3442

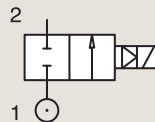
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



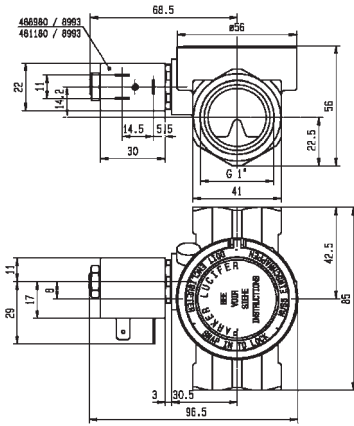
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	321K37	8993	481180	4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	321K37	8993	488980	2	2.5	1.1	7098
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4706	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4706	4270	481000	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4756 ₂	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4756 ₂	4270	481000	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	2995	481865	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	4270	481000	8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	2995	481865	8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	4270	481000	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	NBR	E321G39 ₁	2995	481865	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	E321G39 ₁	4270	481000	8	8	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G40 ₁	2995	481865	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	E321G40 ₁	4270	481000	8	8	2.0	3442

Notes:

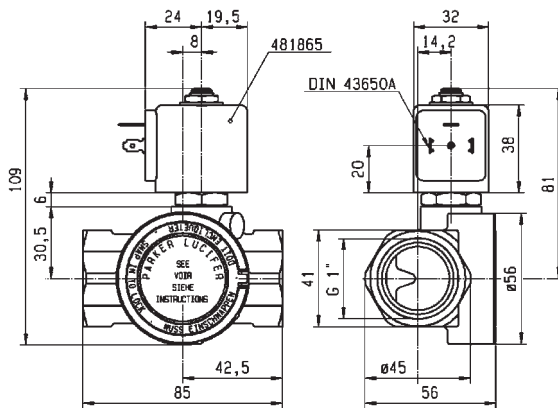
1. Pilot seat disc in synthetic Ruby
2. With manual override



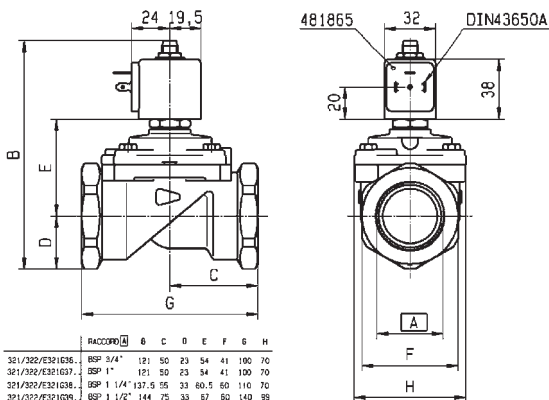
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	18	110	7	-10	-10
To	2"	40	540	16	120	50



Drawing 7098



Drawing 7100



Drawing 3442

321/322/E321G36	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38	BSP 1 1/4"	137	55	33	60.5	60	110	70
321/322/E321G39	BSP 1 1/2"	144	75	33	67	60	140	99
321/322/E321G40	UNF 1 7/8"	144	75	33	67	60	140	99
321/322/E321G41	BSP 2"	158.5	80	41.5	73	75	150	99

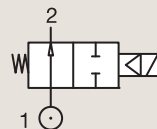
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

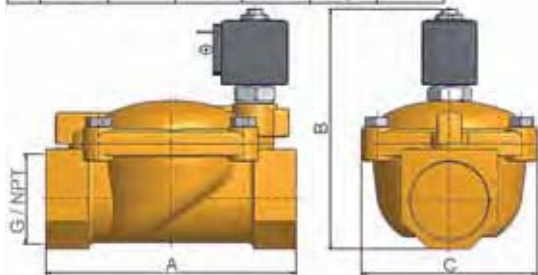
PIPE MOUNTING

NORMALLY OPEN



Port size BSP	Orifice Ø mm	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max AC bar	DC bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
3/8"	13	50	3	-	0.1	10	10	-10	140	EPDM	444600W	7322BIH00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	90	NBR	443805W	7322BIN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444499W	7322BIV00	481865	8	9	2.0	060
1/2"	13	50	3	-	0.1	10	10	-10	140	EPDM	444601W	7322BAH00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	90	NBR	443806W	7322BAN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444500W	7322BAV00	481865	8	9	2.0	060
3/4"	20	140	8.4	-	0.1	10	10	-10	140	EPDM	444602W	7322BCH00	481865	8	9	2.0	061
	20	140	8.4	-	0.1	20	20	-10	90	NBR	443807W	7322BCN00	481865	8	9	2.0	061
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444501W	7322BCV00	481865	8	9	2.0	061
1"	25	160	9.6	-	0.1	10	10	-10	140	EPDM	444603W	7322BDH00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	20	20	-10	90	NBR	443808W	7322BDN00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	20	20	-10	140	FKM	444502W	7322BDV00	481865	8	9	2.0	061
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	444576W	7322BEH00	481865	8	9	2.0	062
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443809W	7322BEN00	481865	8	9	2.0	062
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	444604W	7322BFH00	481865	8	9	2.0	062
	40	500	30	-	0.1	10	10	-10	90	NBR	443810W	7322BFN00	481865	8	9	2.0	062
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	444605W	7322BGH00	481865	8	9	2.0	062
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443811W	7322BGN00	481865	8	9	2.0	062
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	444513W	7322BLN06	481865	8	9	2.0	063
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	444503W	7322BMN06	481865	8	9	2.0	063

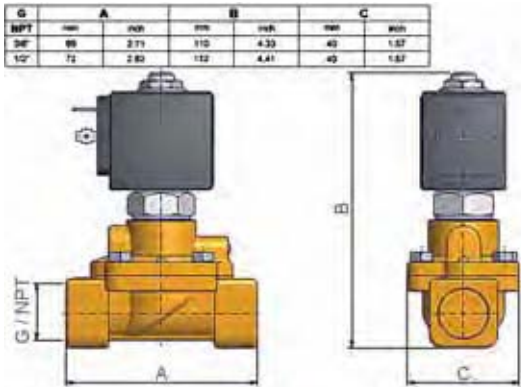
G	A	B	C
NPT	mm	mm	mm
1-1/4"	145	144.5	103
1-1/2"	145	134	102
2"	173	148	118



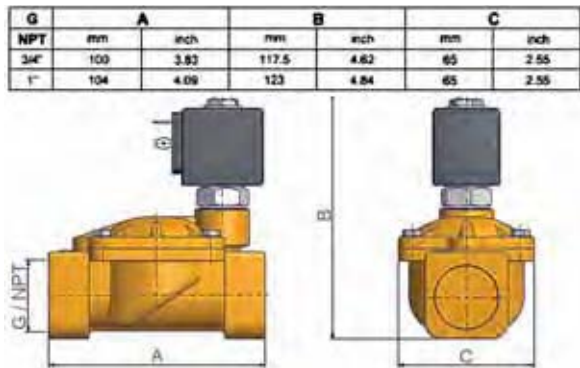
Drawing 062



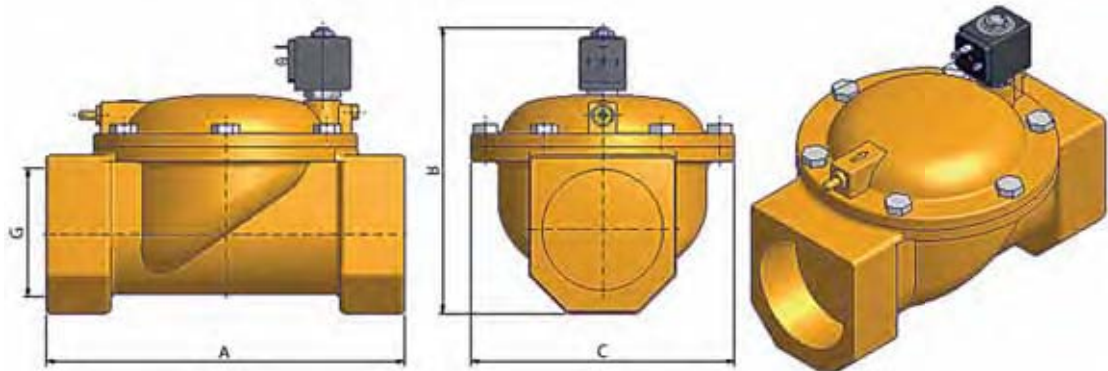
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	50	10	-10	-10
To	3"	75	1334	20	140	50



Drawing 060



Drawing 061



Drawing 063

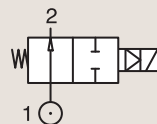
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VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

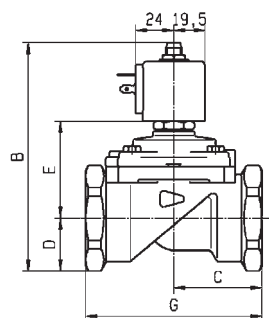
BRASS

PIPE MOUNTING

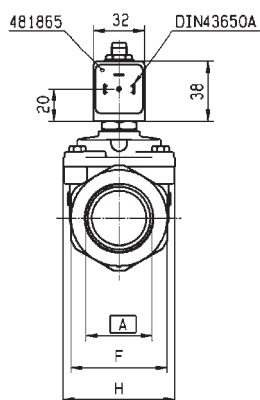
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	FKM	322K4106	2995	481865	8	9	2.1	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	322K4106	4270	481000	8	8	2.1	7094
3/8"	12	45	2.7	3050	0.3	12	12	-10	100	FKM	322K4306	2995	481865	8	9	2.1	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	322K4306	4270	481000	8	8	2.1	7094
1/2"	12	50	3	3400	0.3	12	12	-10	100	FKM	322K4506	2995	481865	8	9	2.1	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	322K4506	4270	481000	8	8	2.1	7094
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	2995	481865	8	9	2.1	3522
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	4270	481000	8	8	2.1	3522
3/4"	18	100	6	9400	0.3	12	12	-10	100	FKM	322K4606	2995	481865	8	9	2.1	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	322K4606	4270	481000	8	8	2.1	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442



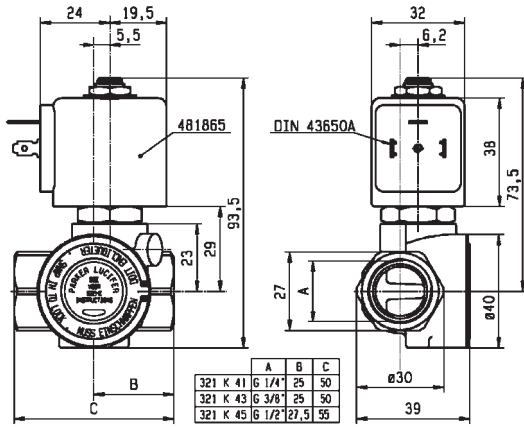
	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36...	BSP 3/4"	121	50	23	54	41	100	70	
321/322/E321G37...	BSP 1"	121	50	23	54	41	100	70	
321/322/E321G38...	BSP 1 1/4"	137.5	55	33	60.5	60	110	70	
321/322/E321G39...	BSP 1 1/2"	144	75	33	67	60	140	99	
321/322/E321G40...	UNF 1 7/8"	144	75	33	67	60	140	99	
321/322/E321G41...	BSP 2"	158.5	80	41.5	73	75	150	99	



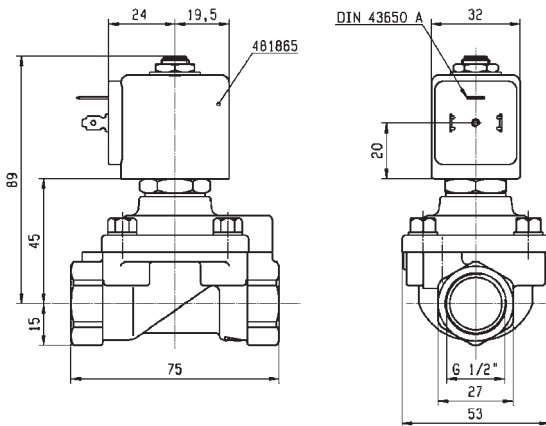
Drawing 3442



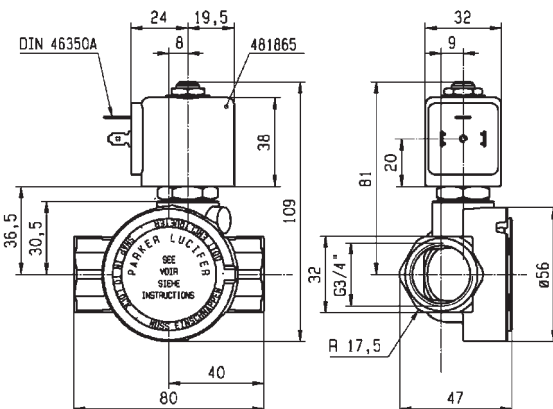
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	3/4"	20	135	16	120	50



Drawing 7094



Drawing 3522



Drawing 7099

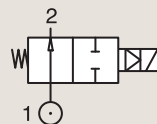
2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN

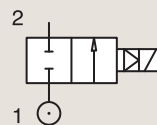


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	322K4706	2995	481865	8	9	2.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	322K4706	4270	481000	8	8	2.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED

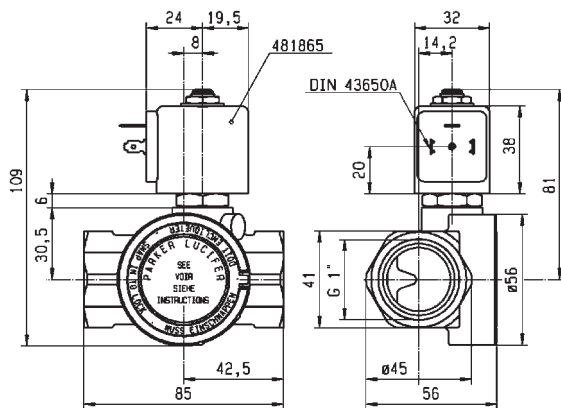


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	14	45	2.7	2100	0.3	40	25	-10	100	NBR	E321F32 ¹	2995	481865	8	9	2.0	3520
	14	45	2.7	2100	0.3	40	30	-10	100	NBR	E321F32 ¹	4270	481000	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	40	-10	100	NBR	E321F32 ¹	4270	486265	14	14	2.0	3520

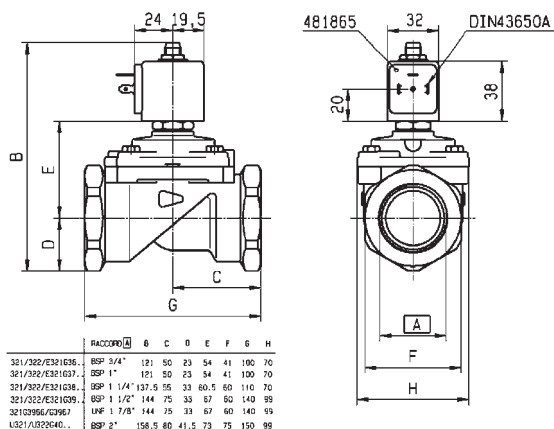
Notes:

1. Pilot seat disc in synthetic Ruby

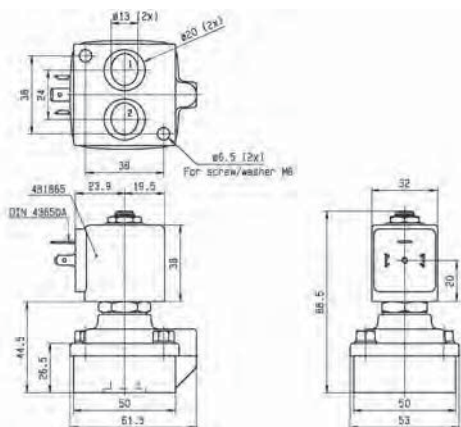
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	45	12	-10	-10
To	1 1/2"	40	420	40	120	50



Drawing 7100



Drawing 3442



Drawing 3520

2 WAY VALVES

ANTI WATER HAMMER VALVES



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Magnalift Pilot Operated	Brass/Pipe mounting	Normally Closed	1"	15 to 25	170	10	140	-	114
	Brass/Pipe mounting	Normally Closed	1/4"	12	32	12	120	-	118
			3/8"	12	45	12	120	-	118
			1/2"	12	50	12	120	-	118
			3/4"	18 to 20	135	16	120	-	118
			1"	18 to 25	180	16	120	116	120
			1 1/4"	25 to 28	280	16	100	116	120
			1 1/2"	35 to 40	500	16	100	116	120
			2"	40 to 50	620	16	100	116	120
			2 1/2"	65	1100	10	90	116	-
			3"	75	1334	10	90	116	-
		Normally Open	3/4"	20	135	16	100	-	122
			1"	25	180	16	100	-	122
			1 1/4"	28	270	16	100	-	122
			1 1/2"	40	425	12	100	-	122
			2"	40	540	12	100	-	122

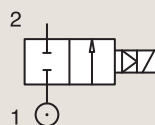
2/2

ANTI WATER HAMMER VALVES
MAGNALIFT

Commercial Equipment

BRASS
PIPE MOUNTING

NORMALLY CLOSED



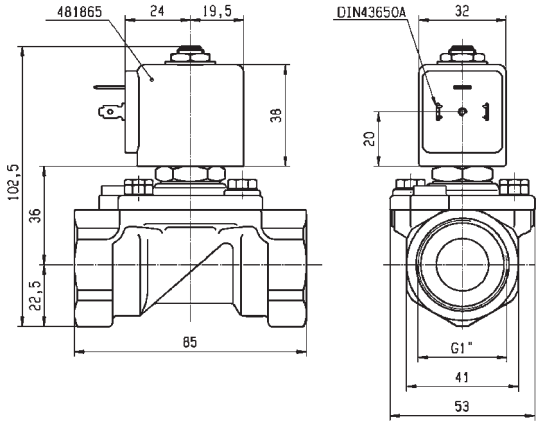
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	15	80	4.8	6000	0	-	10	-10	100	NBR	221G1731 ¹²	2995	481865	-	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	120	NBR	221G1731 ¹²	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	120	NBR	221G1731 ¹²	-	492190	11	9	2.1	3445
	25	160	9.6	-	0	10	-	0	100	EPDM	221G2103	2995	481865	8	-	2.0	3448
	25	160	9.6	-	0	10	-	0	120	EPDM	221G2103	4270	481000	8	-	2.0	3448
	25	160	9.6	-	0	10	10	0	120	EPDM	221G2103	4270	486265	14	14	2.0	3448
	25	160	9.6	-	0	4	4	0	140	EPDM	221G2103	2995	492425	14	14	2.0	3448
	25	170	10.2	14000	0	-	10	-10	100	NBR	221G2131 ¹²	2995	481865	-	9	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	221G2131 ¹²	-	492070	9	8	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	221G2131 ¹²	-	492190	11	9	2.1	3448

Notes:

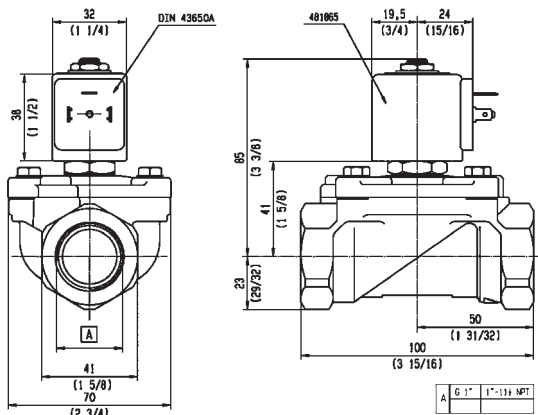
- Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.
- With 4 position selector for controlled closure rate



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	15	80	4	-25	-10
To	1"	25	170	10	140	50



Drawing 3445



Drawing 3448

2/2

ANTI WATER HAMMER VALVES
PILOT OPERATED

Commercial Equipment



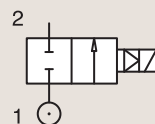
Industrial Equipment



Medical / Instrumentation

BRASS
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
											Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C								
3/4"	20	140	8.4	-	0.1	10	10	-10	90	NBR	443784W ₁	7321BCN02	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	90	NBR	443788W ₁	7321BDN02	481865	8	9	2.0	057
1 1/4"	35	420	25.2	-	0.1	5	5	-10	90	NBR	443792W ₁	7321BEN02	481865	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	5	5	-10	90	NBR	443796W ₁	7321BFN02	481865	8	9	2.0	058
2"	50	620	37.2	-	0.1	5	5	-10	90	NBR	443800W ₁	7321BGN02	481865	8	9	2.0	058
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	443802W ₁	7321BLN02	481865	8	9	2.0	059
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	443803W ₁	7321BMN02	481865	8	9	2.0	059

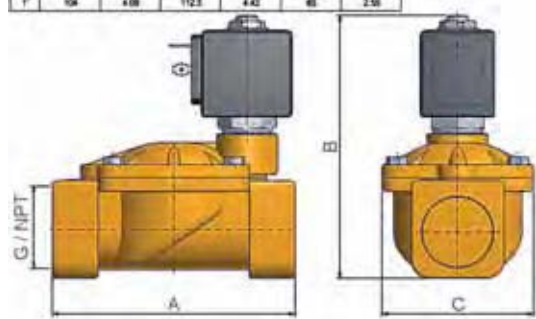
Notes:

1. With manual override



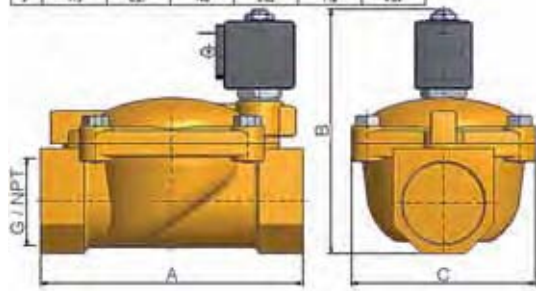
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	20	140	5	-10	-10
To	3"	75	1334	10	90	50

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/4"	100	3.93	107	4.21	85	3.35
1"	104	4.09	112.5	4.43	85	3.35



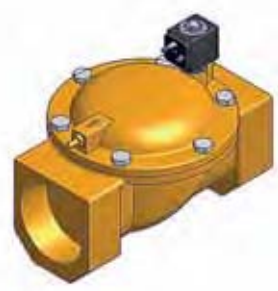
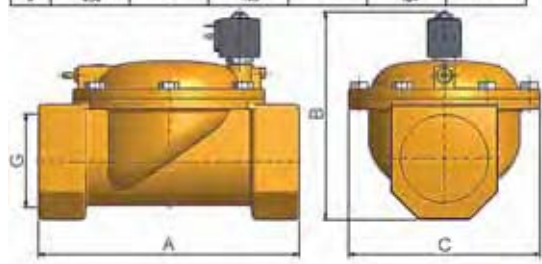
Drawing 057

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1 1/4"	140	5.51	134	5.27	102	4.01
1 1/2"	140	5.51	134	5.27	102	4.01
2"	173	6.81	148	5.83	118	4.64



Drawing 058

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3 1/2"	245	9.65	195	7.68	184	7.24
2"	250	9.84	195	7.68	184	7.24



Drawing 059

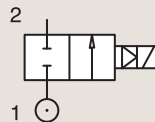
2/2

ANTI WATER HAMMER VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4106	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4106	4270	481000	8	8	2.1/3.0	7094
3/8"	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4306	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4306	4270	481000	8	8	2.1/3.0	7094
1/2"	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4506	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4506	4270	481000	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4556 ₁	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556 ₁	4270	481000	8	8	2.1/3.0	7094
3/4"	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4606	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4606	4270	481000	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4656 ₁	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4656 ₁	4270	481000	8	8	2.1/3.0	7099
	20	135	8.1	9500	0	16	16	-10	100	NBR	E321G3610 ₂	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0	16	16	-10	100	NBR	E321G3610 ₂	4270	481000	8	8	2.0	3442

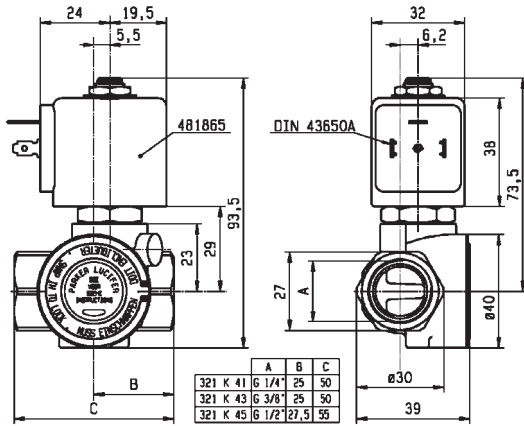
Notes:

1. With manual override

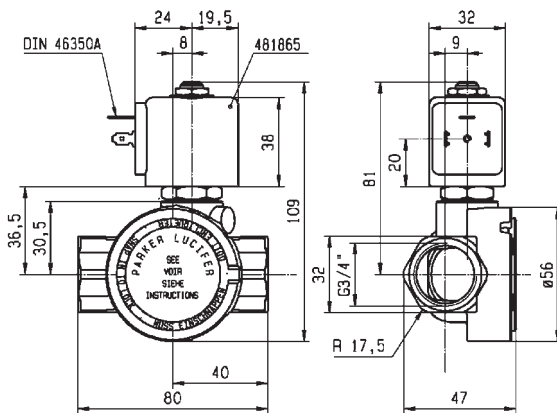
2. With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36



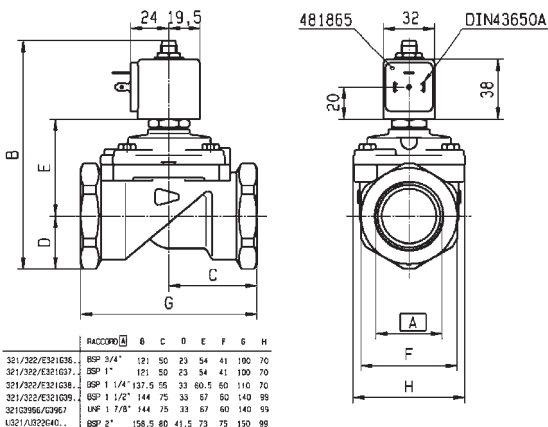
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	3/4"	20	135	16	120	50



Drawing 7094



Drawing 7099



Drawing 3442

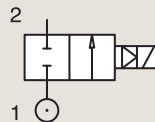
2/2

ANTI WATER HAMMER VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4706	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4706	4270	481000	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4756 ₁	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4756 ₁	4270	481000	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G3710 ₂	2995	481865	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G3710 ₂	4270	481000	8	8	2.0	3442
1 1/4"	28	280	16.8	18000	0.3	16	16	-10	100	NBR	E321G3810 ₂	2995	481865	8	9	2.0	3442
	28	280	16.8	18000	0.3	16	16	-10	100	NBR	E321G3810 ₂	4270	481000	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	NBR	E321G3910 ₂	2995	481865	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	E321G3910 ₂	4270	481000	8	8	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G4010 ₂	2995	481865	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	E321G4010 ₂	4270	481000	8	8	2.0	3442

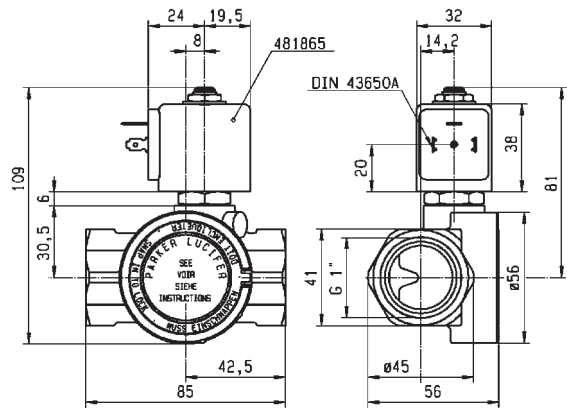
Notes:

1. With manual override

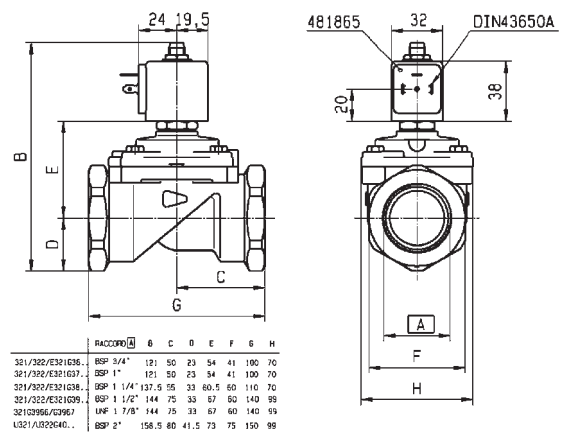
2. With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	18	110	7	-10	-10
To	2"	40	540	16	120	50



Drawing 7100



Drawing 3442

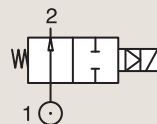
2/2

ANTI WATER HAMMER VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



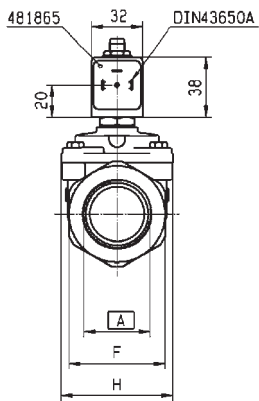
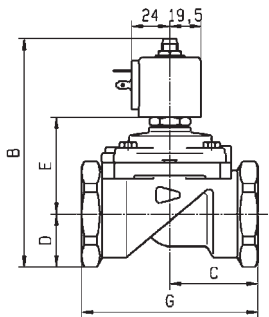
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C								
3/4"	20	135	8.1	9300	0.3	16	16	-10	100	NBR	322G3610 ₁	2995	481865	8	9	2.1	3442
	20	135	8.1	9300	0.3	16	16	-10	100	NBR	322G3610 ₁	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G3710 ₁	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G3710 ₁	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G3810 ₁	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G3810 ₁	4270	481000	8	8	2.1	3442
1 1/2"	40	425	25.5	31000	0.3	12	12	-10	100	NBR	322G3910 ₁	2995	481865	8	9	2.1	3442
	40	425	25.5	31000	0.3	12	12	-10	100	NBR	322G3910 ₁	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G4010 ₁	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G4010 ₁	4270	481000	8	8	2.1	3442

Notes:

1. With 4 position selector for controlled closure rate



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	20	135	12	-10	-10
To	2"	40	540	16	100	50



	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36...	BSPP 3/4"	121	50	23	54	41	100	70	
321/322/E321G37...	BSPP 1"	121	50	23	54	41	100	70	
321/322/E321G38...	BSPP 1 1/4"	137.5	55	33	60.5	60	110	70	
321/322/E321G39...	BSPP 1 1/2"	144	75	33	67	50	140	99	
321/322/E321G40...	BSPP 1 7/8"	144	75	33	67	60	140	99	
321/322/E321G41...	BSPP 2"	158.5	80	41.5	73	75	150	99	

Drawing 3442

2 WAY VALVES

HOT WATER AND STEAM VALVES



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	2.5	3.2	30	140	126	-
			1/4"	2.5 to 5	11	30	180	126	128
			3/8"	6	12	5	140	-	128
			1/2"	8.5 to 11	36	4	120	-	128
	303 Stainless St./Pipe mounting	Normally Closed	1/4"	1.5 to 5	10	100	180	-	130
Magnalift	Brass/Pipe mounting	Normally Closed	3/8"	15	65	10	140	-	132
			1/2"	15	65	10	140	-	132
			3/4"	15	80	10	140	-	132
			1"	15	80	10	140	-	132
Pilot Operated	Brass/Pipe mounting	Normally Closed	3/8"	10 to 16	78	16	180	134	-
			1/2"	10 to 16	78	16	180	134	138
			3/4"	18 to 27	193	14	180	136	-
			1"	18 to 27	193	14	180	136	-

2/2

HOT WATER AND STEAM VALVES
DIRECT OPERATED

Commercial Equipment



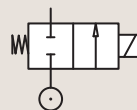
Industrial Equipment



Medical / Instrumentation

BRASS
PIPE MOUNTING

NORMALLY CLOSED



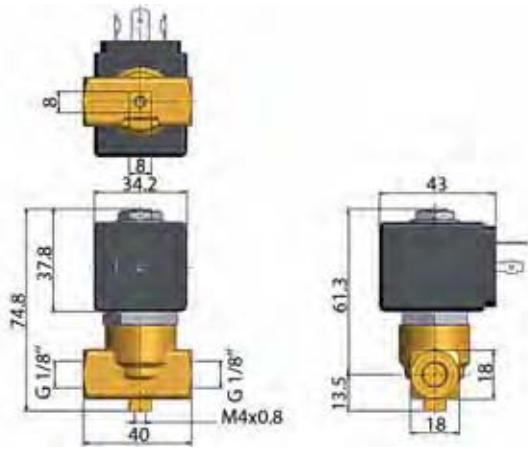
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	bar	bar	°C	°C								
1/8"	2.5	3.2	0.20	-	0	30	-	-30	140	Ruby	362496J	PM140IR	ZB09	9	-	20.1/20.2	027
	2.5	3.2	0.20	-	0	-	17	-30	140	Ruby	362496J	PM140IR	ZB12	-	12	20.1/20.2	027
1/4"	2.5	3.2	0.20	-	0	30	-	-30	140	Ruby	362518J ₁	PM140CR	ZB09	9	-	20.1/20.2	026
	2.5	3.2	0.20	-	0	-	17	-30	140	Ruby	362518J ₁	PM140CR	ZB12	-	12	20.1/20.2	026
	2.5	3.2	0.20	-	0	30	-	-30	140	Ruby	362518J ₁	PM140CR	ZH14	14	-	20.1/20.2	026
	2.5	3.2	0.20	-	0	-	17	-30	140	Ruby	362518J ₁	PM140CR	ZH16	-	16	20.1/20.2	026
	3	4.2	0.25	-	0	10	-	-10	140	EPDM	360470 ₂	PM126YH	ZB09	9	-	20.1/20.2	008
	3	4.2	0.25	-	0	-	6	-10	140	EPDM	360470 ₂	PM126YH	ZB12	-	12	20.1/20.2	008
	3	4.2	0.25	-	0	10	-	-10	140	EPDM	360470 ₂	PM126YH	ZH14	14	-	20.1/20.2	008
	3	4.2	0.25	-	0	-	6	-10	140	EPDM	360470 ₂	PM126YH	ZH16	-	16	20.1/20.2	008
	3	4.2	0.25	-	0	10	-	-10	180	PTFE	360475 ₂	PM126YT	ZH14	14	-	20.1/20.2	008
	3	4.2	0.25	-	0	-	10	-10	180	PTFE	360475 ₂	PM126YT	ZH16	-	16	20.1/20.2	008
	3	4	0.24	-	0	30	-	-30	140	Ruby	362524J	PM140DR	ZB09	9	-	20.1/20.2	026
	3	4	0.24	-	0	-	12	-30	140	Ruby	362524J	PM140DR	ZB12	-	12	20.1/20.2	026
	3	4	0.24	-	0	30	-	-30	140	Ruby	362524J	PM140DR	ZH14	14	-	20.1/20.2	026
	3	4	0.24	-	0	-	12	-30	140	Ruby	362524J	PM140DR	ZH16	-	16	20.1/20.2	026
	3	3.3	0.2	-	0	10	-	-10	140	EPDM	364880J ₂	PM158IH	ZH14	14	-	20.2	042
	3	3.3	0.2	-	0	-	4	-10	140	EPDM	364880J ₂	PM158IH	ZH16	-	16	20.2	042
	3	3.3	0.2	-	0	10	-	-10	180	PTFE	364884J ₂	PM158IT	ZH14	14	-	20.2	042
	3	3.3	0.2	-	0	-	10	-10	180	PTFE	364884J ₂	PM158IT	ZH16	-	16	20.2	042

Notes:

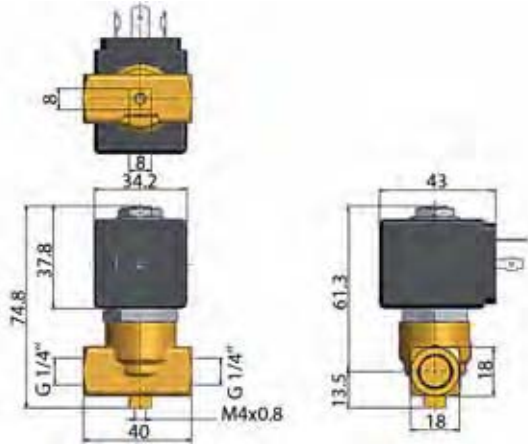
1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Maximum pressure for steam: 4 Bar (140°C)



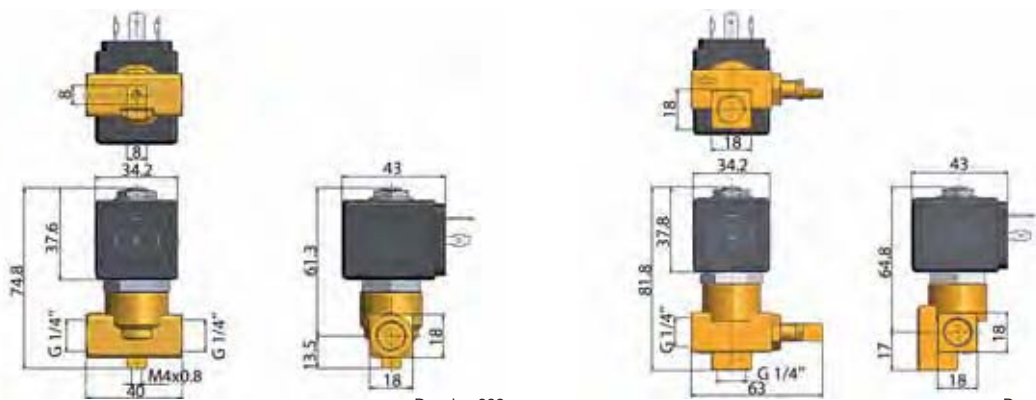
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2.5	3.2	4	-30	-10
To	1/4"	3	4.2	30	180	50



Drawing 027



Drawing 026



Drawing 008

Drawing 042

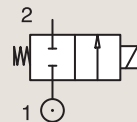
2/2

HOT WATER AND STEAM VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

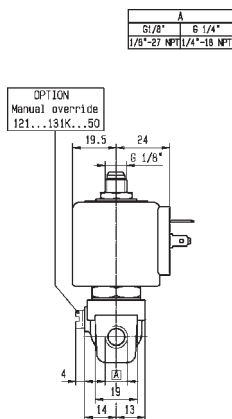
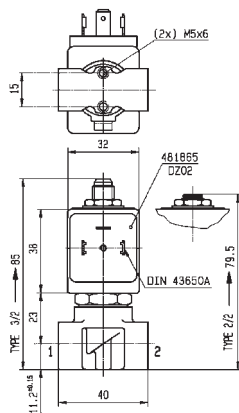
NORMALLY CLOSED



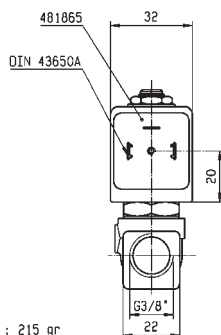
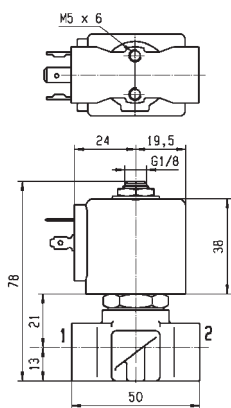
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	3	4.5	0.27	-	0	10	7	0	100	EPDM	121K0323	2995	481865	8	9	2.0	3510
	3	4.5	0.27	-	0	10	8.5	0	120	EPDM	121K0323	4270	481000	8	8	2.0	3510
	3	4.5	0.27	-	0	10	10	0	120	EPDM	121K0323	4270	486265	14	14	2.0	3510
	3	4.5	0.27	-	0	10	10	0	120	EPDM	121K0323	2995	492425	14	14	2.0	3510
	5	11	0.66	750	0	7	2	0	100	EPDM	121K0103	2995	481865	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	0	120	EPDM	121K0103	4270	481000	8	8	2.0	3510
	5	11	0.66	750	0	7	5	0	120	EPDM	121K0103	4270	486265	14	14	2.0	3510
	5	11	0.66	750	0	4	3.5	0	120	EPDM	121K0103	2995	492425	14	14	2.0	3510
	5	11	0.66	750	0	7	2	0	100	EPDM	121K0113	2995	481865	8	9	2.0	3510
3/8"	6	12	0.72	1100	0	5	1.1	0	100	EPDM	121K3303	2995	481865	8	9	2.0	3551
	6	12	0.72	1100	0	5	1.5	0	120	EPDM	121K3303	4270	481000	8	8	2.0	3551
	6	12	0.72	1100	0	4	4	0	120	EPDM	121K3303	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	4	4	0	140	EPDM	121K3303	2995	492425	14	14	2.0	3551
1/2"	8.5	25	1.5	-	0	2.2	0.5	0	120	EPDM	E121K4603	4270	481000	8	8	2.0	3427
	8.5	25	1.5	-	0	4	1.2	0	120	EPDM	E121K4603	4270	486265	14	14	2.0	3427
	8.5	25	1.5	-	0	4	1	0	120	EPDM	E121K4603	2995	492425	14	14	2.0	3427
	11	36	2.16	-	0	1.2	0.35	0	120	EPDM	E121K4503	4270	481000	8	8	2.0	3427
	11	36	2.16	-	0	2.5	0.7	0	120	EPDM	E121K4503	4270	486265	14	14	2.0	3427
	11	36	2.16	-	0	2.5	0.5	0	120	EPDM	E121K4503	2995	492425	14	14	2.0	3427



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	3	4.5	0.4	0	-10
To	1/2"	11	36	10	140	50



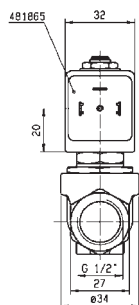
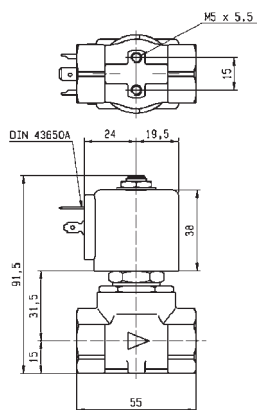
Drawing 3510



WEIGHT : 215 gr

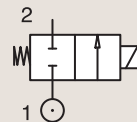


Drawing 3551



Drawing 3427

2/2

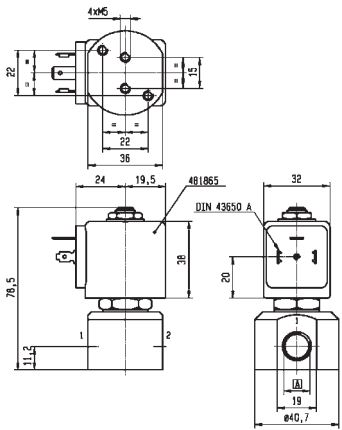
HOT WATER AND STEAM VALVES
DIRECT OPERATED303 STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
1/4"	1.5	1.5	0.09	80	0	60	25	0	100	Ruby	121V5463	2995	481865	8	9	2.0	8116
	1.5	1.5	0.09	80	0	75	30	0	130	Ruby	121V5463	4270	481000	8	8	2.0	8116
	1.5	1.5	0.09	80	0	100	55	0	140	Ruby	121V5463	4270	486265	14	14	2.0	8116
	2.5	3.5	0.21	220	0	28	10	0	100	Ruby	121V5763	2995	481865	8	9	2.0	8116
	2.5	3.5	0.21	220	0	34	12	0	130	Ruby	121V5763	4270	481000	8	8	2.0	8116
	2.5	3.5	0.21	220	0	50	22	0	140	Ruby	121V5763	4270	486265	14	14	2.0	8116
	3	4.5	0.27	315	0	20	7	0	100	Ruby	121V5363	2995	481865	8	9	2.0	8116
	3	4.5	0.27	315	0	25	8.5	0	130	Ruby	121V5363	4270	481000	8	8	2.0	8116
	3	4.5	0.27	315	0	36	15	0	140	Ruby	121V5363	4270	486265	14	14	2.0	8116
	4	7	0.42	450	0	12	4	0	100	Ruby	121V5263	2995	481865	8	9	2.0	8116
	4	7	0.42	450	0	15	5	0	130	Ruby	121V5263	4270	481000	8	8	2.0	8116
	4	7	0.42	450	0	22	10	0	180	Ruby	121V5263	4270	486265	14	14	2.0	8116
	5	10	0.6	750	0	8.5	2	0	100	Ruby	121V5163	2995	481865	8	9	2.0	8116
	5	10	0.6	750	0	10	3.5	0	130	Ruby	121V5163	4270	481000	8	8	2.0	8116
	5	10	0.6	750	0	14	6.5	0	140	Ruby	121V5163	4270	486265	14	14	2.0	8116



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	2	0	-10
To	1/4"	5	10	100	180	50



A	G 1/8"
	G 1/4"



Drawing 8116

2/2

HOT WATER AND STEAM VALVES
MAGNALIFT

Commercial Equipment



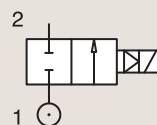
Industrial Equipment



Medical / Instrumentation

BRASS
PIPE MOUNTING

NORMALLY CLOSED



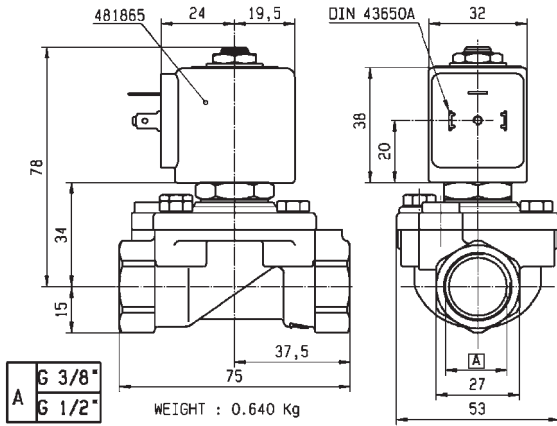
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	Qn		Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
3/8"	15	65	3.9	-	0	10	-	0	100	EPDM	221G1303	2995	481865	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	221G1303	4270	481000	8	-	2.0	3732
	15	65	3.9	-	0	4	4	0	140	EPDM	221G1303	4270	486265	14	14	2.0	3732
	15	65	3.9	4500	0	10	10	-10	100	FKM	221G1330 ₁	2995	481865	8	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	FKM	221G1330 ₁	-	492070	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	120	FKM	221G1330 ₁	-	492190	11	9	2.1	3732
1/2"	15	65	3.9	-	0	10	-	0	100	EPDM	221G1503	2995	481865	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	221G1503	4270	481000	8	-	2.0	3732
	15	65	3.9	-	0	10	7	0	140	EPDM	221G1503	4270	486265	14	14	2.0	3732
3/4"	15	80	4.8	-	0	10	-	0	100	EPDM	221G1603	2995	481865	8	-	2.0	3444
	15	80	4.8	-	0	10	-	0	120	EPDM	221G1603	4270	481000	8	-	2.0	3444
	15	80	4.8	-	0	4	4	0	140	EPDM	221G1603	4270	486265	14	14	2.0	3444
1"	15	80	4.8	-	0	10	-	0	100	EPDM	221G1703	2995	481865	8	-	2.0	3445
	15	80	4.8	-	0	10	-	0	120	EPDM	221G1703	4270	481000	8	-	2.0	3445
	15	80	4.8	-	0	10	10	0	140	EPDM	221G1703	4270	486265	14	14	2.0	3445

Notes:

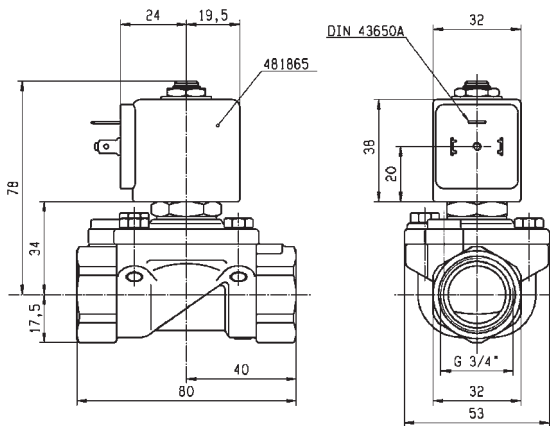
1. Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.



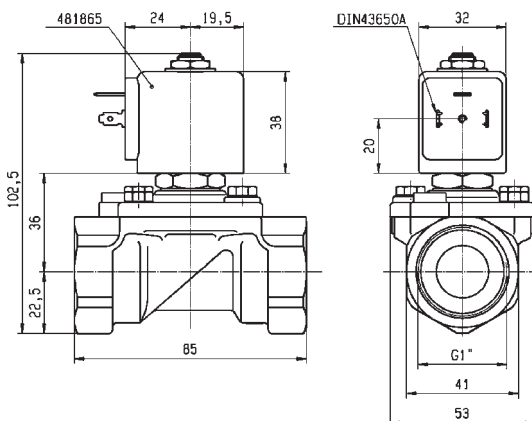
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	4	-10	-10
To	1"	15	80	10	140	50



Drawing 3732



Drawing 3444



Drawing 3445

2/2

HOT WATER AND STEAM VALVES
PILOT OPERATED

Commercial Equipment



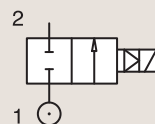
Industrial Equipment



Medical / Instrumentation

BRASS
PIPE MOUNTING

NORMALLY CLOSED



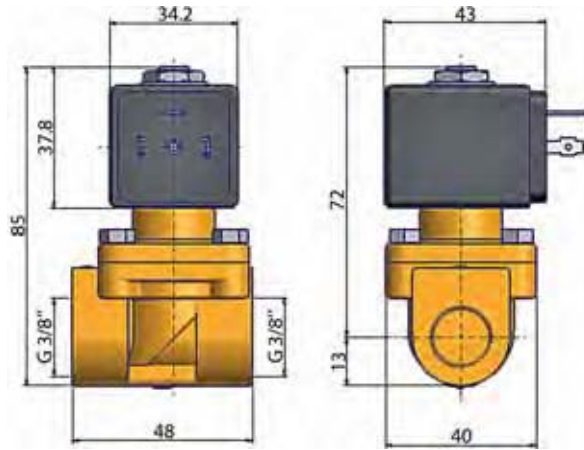
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	bar	bar	°C	°C								
3/8"	10	22	1.32	-	0.5	16	-	-30	160	PTFE	364520 ₁	PM156.2IR	ZB09	9	-	20.1	041
	16	78	4.7	-	0.5	10	-	-30	180	PTFE	362262	PM135IT	ZH14	14	-	20.2	017
	16	78	4.7	-	0.5	-	10	-30	180	PTFE	362262	PM135IT	ZH16	-	16	20.2	017
1/2"	16	78	4.7	-	0.5	10	-	-30	180	PTFE	362263	PM135AT	ZH14	14	-	20.2	016
	16	78	4.7	-	0.5	-	10	-30	180	PTFE	362263	PM135AT	ZH16	-	16	20.2	016

Notes:

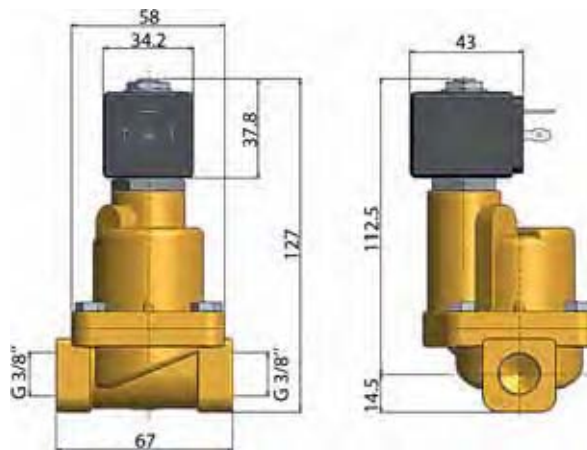
1. Maximum pressure for steam: 6.5 Bar (160°C)



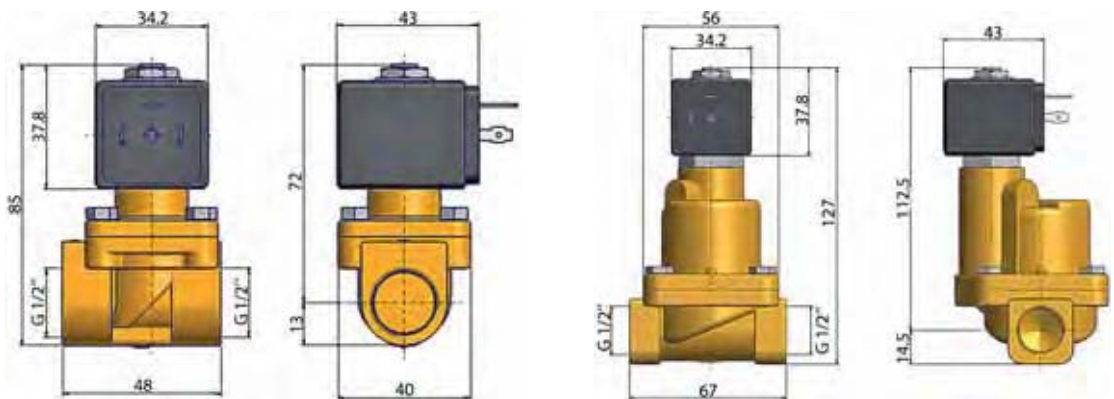
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	10	22	10	-30	-10
To	1/2"	16	78	16	180	50



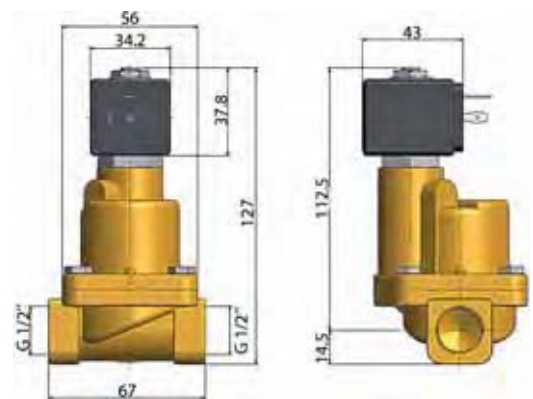
Drawing 041



Drawing 017



Drawing 038



Drawing 016

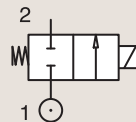
2/2

HOT WATER AND STEAM VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



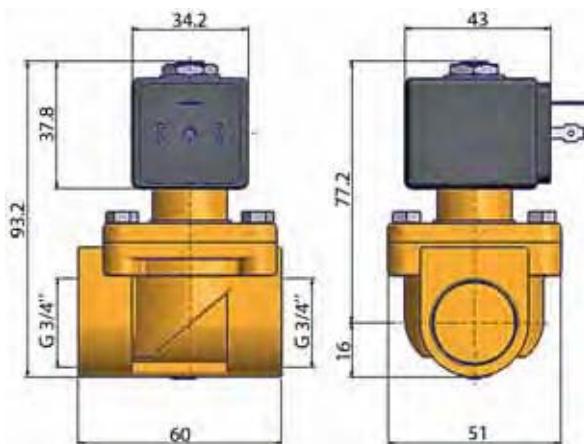
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	bar	bar	°C	°C								
3/4"	18	37	2.22	-	0.5	14	-	-30	160	PTFE	364530 ₁	PM156.2CR	ZB09	9	-	20.1	039
	27	193	11.6	-	0.5	10	-	-30	180	PTFE	362264	PM135CT	ZH14	14	-	20.2	018
	27	193	11.6	-	0.5	-	10	-30	180	PTFE	362264	PM135CT	ZH16	-	16	20.2	018
1"	18	42	2.52	-	0.5	14	-	-30	160	PTFE	364535 ₁	PM156.2DR	ZB09	9	-	20.1	040
	27	193	11.6	-	0.5	10	-	-30	180	PTFE	362265	PM135DT	ZH14	14	-	20.2	019
	27	193	11.6	-	0.5	-	10	-30	180	PTFE	362265	PM135DT	ZH16	-	16	20.2	019

Notes:

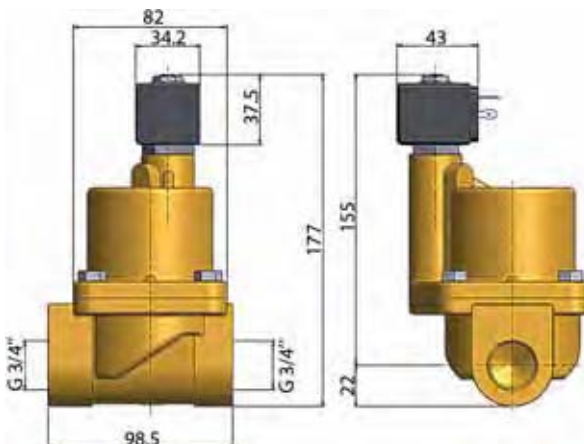
1. Maximum pressure for steam: 6.5 Bar (160°C)



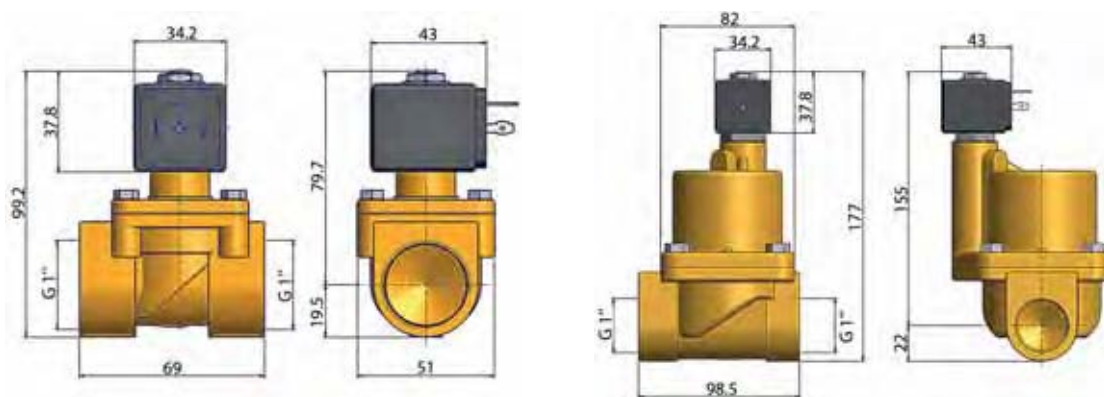
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	18	37	10	-30	-10
To	1"	27	193	14	180	50



Drawing 039



Drawing 018



Drawing 040

Drawing 019

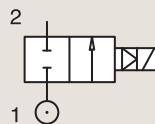
2/2

HOT WATER AND STEAM VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

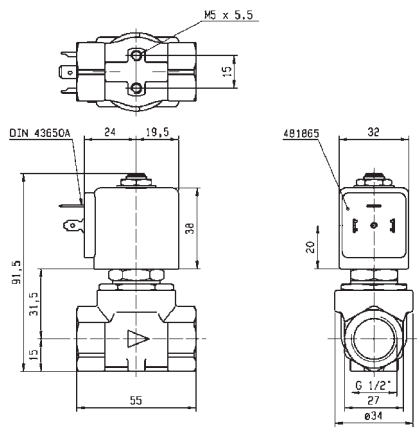
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
1/2"	11	36	2.16	-	0.2	10	4	0	120	EPDM	E321K1503	4270	481000	8	8	2.0	3427
	11	36	2.16	-	0.2	10	-	0	100	EPDM	E321K1503	4270	483520	9	-	2.0	3427
	11	36	2.16	-	0.2	10	-	0	120	EPDM	E321K1503	4270	486992	10	-	2.0	3427



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	4	0	-10
To	1/2"	11	36	10	120	50



Drawing 3427

2 WAY VALVES



VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)



Oil



Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.5 to 2.5	3.5	70	130	-	142
			1/4"	1.2 to 3	4.5	100	130	-	142
			3/8"	4 to 6	12	10	120	-	144
		Normally Open	1/8"	2.5	3.5	30	140	-	144
			1/4"	1.5 to 2.5	3.5	40	140	-	144
			5 mm	1.5 to 3	4.5	100	130	-	146
Pilot Operated	Brass/Pipe mounting	Normally Closed	1/4"	8	36	40	140	-	148
			3/8"	11	50	40	140	-	148
			1/2"	15	60	40	140	-	150
			1/4"	8	36	40	140	-	152
		Normally Open	3/8"	11	50	40	140	-	152
			1/2"	15	60	40	140	-	152
			14 mm	14	45	40	140	-	154
			14 mm	14	45	40	120	-	154

2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) DIRECT OPERATED



Industrial Equipment



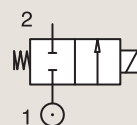
Commercial Equipment



Heating Systems

BRASS PIPE MOUNTING

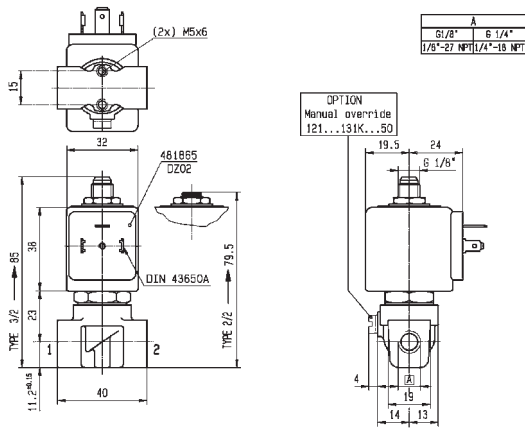
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/8"	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K14	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121K14	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121K14	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K23	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	E121K23	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	E121K23	4270	486265	14	14	2.0	3510
1/4"	1.2	0.85	0.05	50	0	80	36	-30	100	Ruby	E121K65	2995	481865	8	9	2.0	3510
	1.2	0.85	0.05	50	0	100	43	-30	130	Ruby	E121K65	4270	481000	8	8	2.0	3510
	1.2	0.85	0.05	50	0	100	75	-30	120	Ruby	E121K65	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K04	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121K04	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121K04	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	E121K67	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	E121K67	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	E121K67	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K63	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	E121K63	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	E121K63	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	E121K03	2995	481865	8	9	2.0/3.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	E121K03	4270	481000	8	8	2.0/3.0	3510



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.85	7	-30	-10
To	1/4"	3	4.5	100	130	50



Drawing 3510

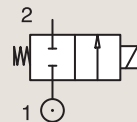
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

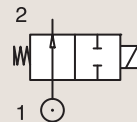


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	E121K03	4270	486265	14	14	2.0/3.0	3510
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	E121K64	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	E121K64	4270	481000	8	8	2.0	3510
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	E121K64	4270	486265	14	14	2.0	3510
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551

BRASS

PIPE MOUNTING

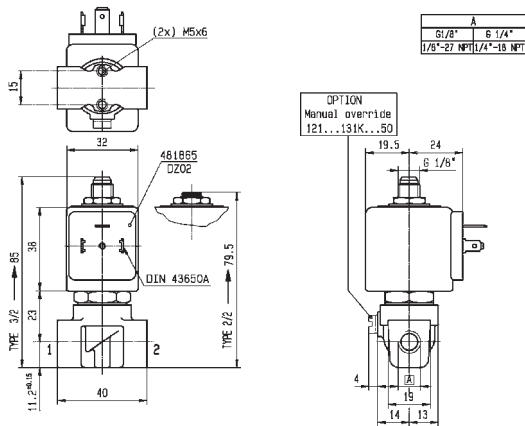
NORMALLY OPEN



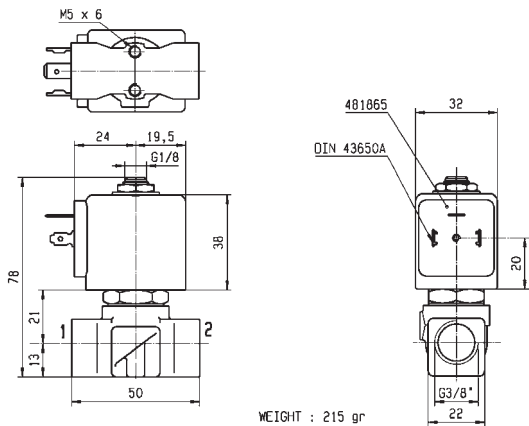
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/8"	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K9363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K9363	4270	486265	14	14	2.2	3510
1/4"	1.5	1.5	0.09	9.6	0	30	30	-10	100	PCTFE	122K84	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	9.6	0	30	30	-10	100	PCTFE	122K84	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	9.6	0	30	30	-10	120	PCTFE	122K84	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	100	Ruby	122K8408	2995	481865	8	9	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	481000	8	8	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K8363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K8363	4270	486265	14	14	2.2	3510



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	1.1	-30	-10
To	3/8"	6	12	40	140	50



Drawing 3510



Drawing 3551

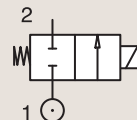
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

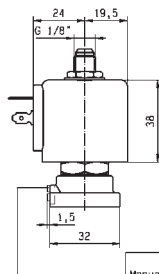
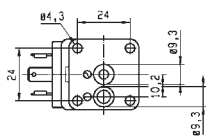
NORMALLY CLOSED



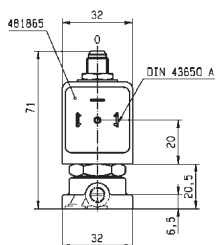
Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential Min Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	121F67	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	121F67	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	121F67	4270	486265	14	14	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121F44	2995	481865	8	9	2.0	3509
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	E121F44	4270	481000	8	8	2.0	3509
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	E121F44	4270	486265	14	14	2.0	3509
	2.5	3.5	0.21	220	0	14	10	-10	100	FKM	121F4706	2995	481865	8	9	2.0	3509
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121F4706	4270	481000	8	8	2.0	3509
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121F4706	4270	486265	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	121F63	2995	481865	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	121F63	4270	481000	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	121F63	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	121F64	2995	481865	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	121F64	4270	481000	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	121F64	4270	486265	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	E121F43	2995	481865	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	E121F43	4270	481000	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	E121F43	4270	486265	14	14	2.0	3509



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-30	-10
To	5 mm	3	4.5	100	130	50



OPTION
Manual override
121...131F...50



Drawing 3509

2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) PILOT OPERATED



Commercial Equipment



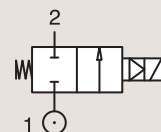
Industrial Equipment



Heating Systems

BRASS PIPE MOUNTING

NORMALLY CLOSED



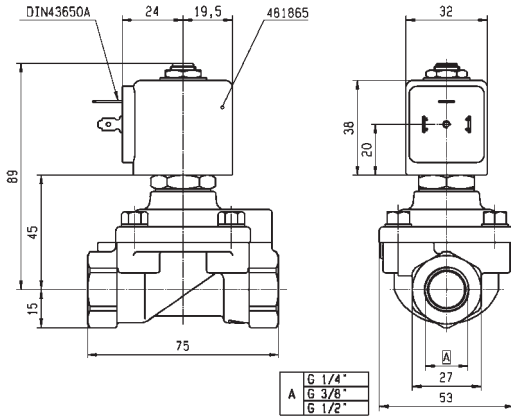
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 ¹²	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 ¹²	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 ¹²	4270	486265	14	14	2.0	3523
	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21 ¹²	2995	481865	8	9	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21 ¹²	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21 ¹²	4270	486265	14	14	2.0	3523
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 ¹²	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 ¹²	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 ¹²	4270	486265	14	14	2.0	3521
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23 ¹²	2995	481865	8	9	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23 ¹²	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23 ¹²	4270	486265	14	14	2.0	3521
	11	36	2.16	-	0.2	20	-	-10	100	Ruby	E321K63	2995	483510	9	-	2.0	3429
	11	36	2.16	-	0.2	30	-	-10	140	Ruby	E321K63	4270	488553	9	-	2.0	3429
	11	36	2.16	-	0.2	4	4	-10	120	Ruby	E321K63	-	492190	11	9	2.0	3429

Notes:

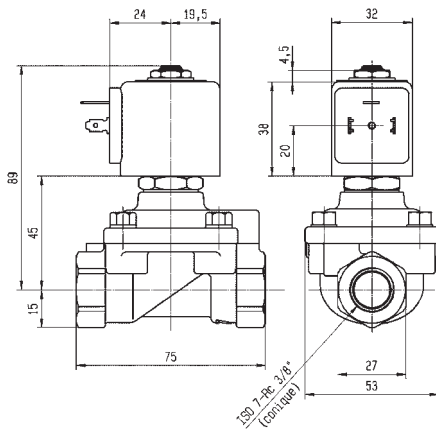
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby



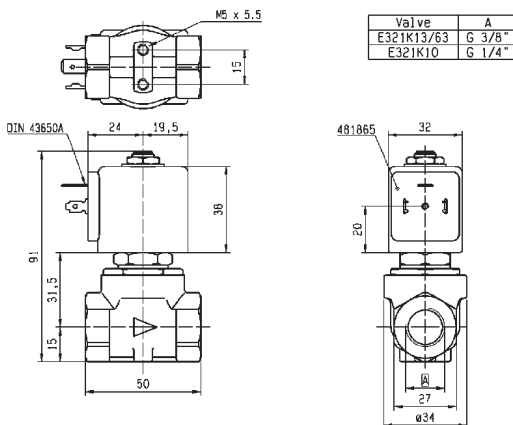
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	3	-10	-10
To	3/8"	11	50	40	140	50



Drawing 3523



Drawing 3521



Drawing 3429

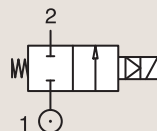
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



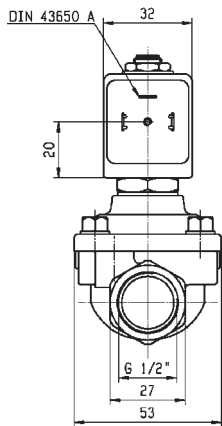
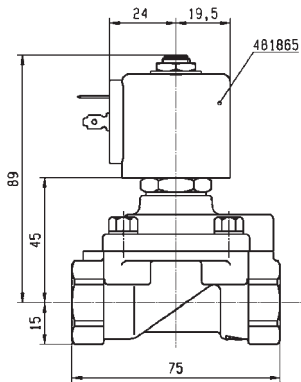
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/2"	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 ¹²	2995	481865	8	9	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15 ¹²	4270	481000	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15 ¹²	4270	486265	14	14	2.0	3522
	15	60	3.6	-	0.3	40	25	-10	100	FKM	E321H25 ¹²	2995	481865	8	9	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	120	FKM	E321H25 ¹²	-	483371	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	E321H25 ¹²	4270	486265	14	14	2.0/14.2	3522

Notes:

1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	15	60	25	-10	-10
To	1/2"	15	60	40	140	50



Drawing 3522

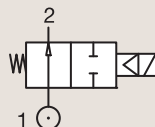
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



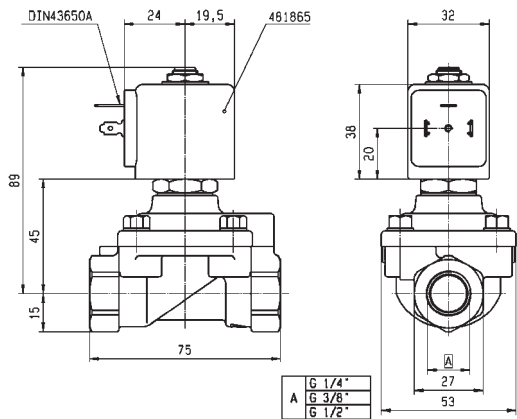
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	8	36	2.16	-	0.3	40	40	-10	100	FKM	322H7106 ¹²	2995	481865	8	9	2.0/14.1	3523
	8	36	2.16	-	0.3	40	40	-10	120	FKM	322H7106 ¹²	4270	481000	8	8	2.0/14.1	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	322H7106 ¹²	4270	486265	14	14	2.0/14.1	3523
3/8"	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ¹²	2995	481865	8	9	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ¹²	4270	481000	8	8	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 ¹²	4270	486265	14	14	2.0	3523
	11	50	3	-	0.3	40	40	-10	100	FKM	322H7306 ¹²	2995	481865	8	9	2.0/14.1	3523
	11	50	3	-	0.3	40	40	-10	100	FKM	322H7306 ¹²	4270	481000	8	8	2.0/14.1	3523
	11	50	3	-	0.3	40	40	-10	140	FKM	322H7306 ¹²	4270	486265	14	14	2.0/14.1	3523
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ¹	2995	481865	8	9	2.0	3522
1/2"	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ¹	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 ¹	4270	486265	14	14	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ¹²	2995	481865	8	9	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ¹²	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 ¹²	4270	486265	14	14	2.0	3522
	15	60	3.6	-	0.3	40	40	-10	100	FKM	322H7506 ¹²	2995	481865	8	9	2.0/14.1	3522
	15	60	3.6	-	0.3	40	40	-10	120	FKM	322H7506 ¹²	4270	481000	8	8	2.0/14.1	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	322H7506 ¹²	4270	486265	14	14	2.0/14.1	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	322H7506 ¹²	4270	486265	14	14	2.0/14.1	3522

Notes:

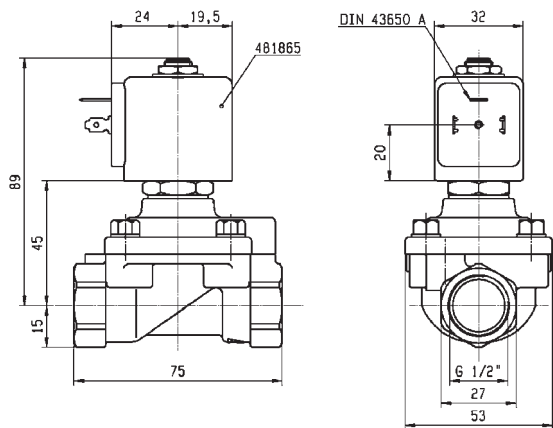
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	20	-10	-10
To	1/2"	15	60	40	140	50



Drawing 3523



Drawing 3522

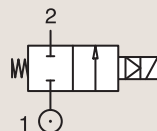
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR) PILOT OPERATED

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
SB	14	45	2.7	-	0.3	40	25	-10	100	FKM	E321F3202 ¹²	2995	481865	8	9	2.0	3520
	14	45	2.7	-	0.3	40	30	-10	120	FKM	E321F3202 ¹²	4270	481000	8	8	2.0	3520
	14	45	2.7	-	0.3	40	40	-10	140	FKM	E321F3202 ¹²	4270	486265	14	14	2.0	3520

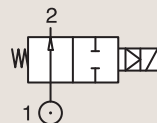
Notes:

1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby

BRASS

SUB-BASE MOUNTING

NORMALLY OPEN



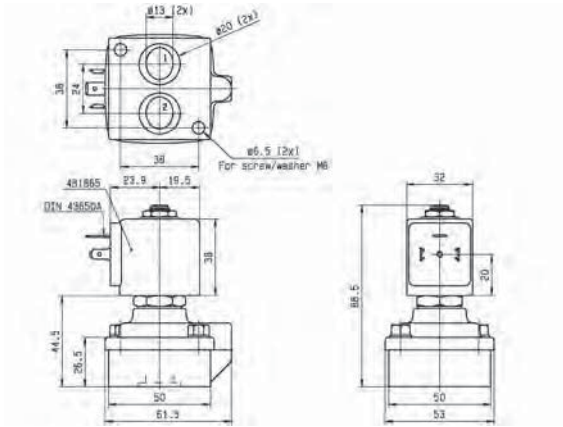
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
SB	14	45	2.7	-	0.3	40	40	0	100	FKM	322F7206 ¹²	2995	481865	8	9	2.1/14.1	3520
	14	45	2.7	-	0.3	40	40	0	120	FKM	322F7206 ¹²	4270	481000	8	8	2.1/14.1	3520

Notes:

1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	45	25	-10	-10
To	14 mm	14	45	40	140	50



Drawing 3520

2 WAY VALVES



HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL)



Oil



Water



Air

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	303 Stainless St./Pipe mounting	Normally Closed	1/4"	1.5 to 5	10	100	180	-	158
		Normally Open	1/4"	2.5	3	12	120	-	162

2/2

HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL) DIRECT OPERATED



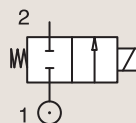
Process



Commercial Equipment

303 STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



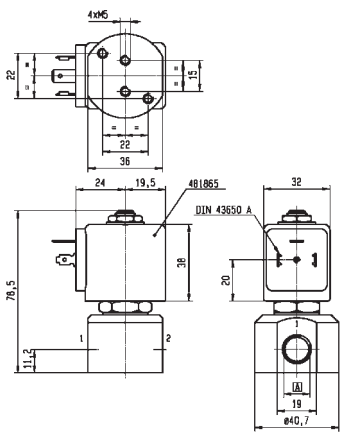
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C									
1/4"	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	121V5406	2995	481865	8	9	2.0	8116	
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	121V5406	4270	481000	8	8	2.0	8116	
	1.5	1.5	0.09	80	0	60	25	0	100	Ruby	121V5463 ₁	2995	481865	8	9	2.0	8116	
	1.5	1.5	0.09	80	0	75	30	0	130	Ruby	121V5463 ₁	4270	481000	8	8	2.0	8116	
	1.5	1.5	0.09	80	0	100	55	0	140	Ruby	121V5463 ₁	4270	486265	14	14	2.0	8116	
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	121V5497 ₂	2995	482740	-	1.6	3.0/6.0/8.0	8024	
	1.5	1.5	0.09	80	0	10	10	-20	75	PUR	121V5497 ₂	-	495900	2.5	2	3.0/6.0/8.0	8024	
	1.5	1.5	0.09	80	0	-	10	-20	75	PUR	121V5497 ₂	-	495910	*	-	0.3 to 3	3.0/6.0/8.0	8024
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	121V5497 ₂	2995	496125	-	1.6	3.0/6.0/8.0	8024	
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121V5706	2995	481865	8	9	2.0	8116	
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121V5706	4270	481000	8	8	2.0	8116	
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121V5706	4270	486265	14	14	2.0	8116	
	2.5	3.5	0.21	220	0	28	10	0	100	Ruby	121V5763 ₁	2995	481865	8	9	2.0	8116	
	2.5	3.5	0.21	220	0	34	12	0	130	Ruby	121V5763 ₁	4270	481000	8	8	2.0	8116	
	2.5	3.5	0.21	220	0	50	22	0	140	Ruby	121V5763 ₁	4270	486265	14	14	2.0	8116	
	3	4.5	0.27	315	0	10	7	-10	100	FKM	121V5306	2995	481865	8	9	2.0	8116	
	3	4.5	0.27	315	0	10	8.5	-10	120	FKM	121V5306	4270	481000	8	8	2.0	8116	
	3	4.5	0.27	315	0	10	10	-10	120	FKM	121V5306	4270	486265	14	14	2.0	8116	
	3	4.5	0.27	315	0	20	7	0	100	Ruby	121V5363 ₁	2995	481865	8	9	2.0	8116	
	3	4.5	0.27	315	0	25	8.5	0	130	Ruby	121V5363 ₁	4270	481000	8	8	2.0	8116	
	3	4.5	0.27	315	0	36	15	0	140	Ruby	121V5363 ₁	4270	486265	14	14	2.0	8116	

Notes:

1. Valve only compatible with hydraulic oil and neutral liquids
2. Valve compatible with water only up to 40°C



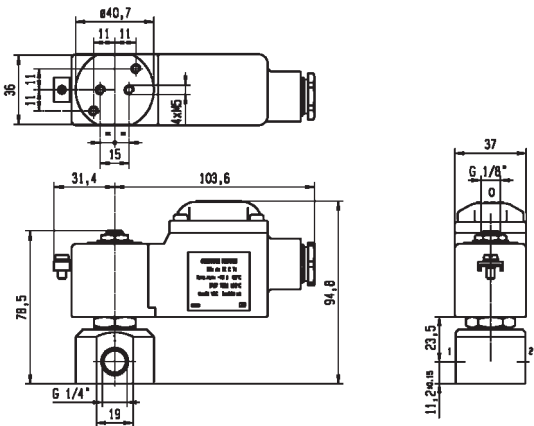
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	7	-20	-20
To	1/4"	3	4.5	100	140	50



A	G 1/8"
	G 1/4"



Drawing 8116



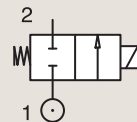
Drawing 8024

2/2

HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL) DIRECT OPERATED

303 STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
1/4"	3	3.5	0.21	220	0	-	2	-20	75	PUR	121V5397 ₂	2995	482740	-	1.6		3.0/6.0/8.0	8024
	3	3.5	0.21	220	0	4.5	4	-20	75	PUR	121V5397 ₂	-	495900	2.5	2		3.0/6.0/8.0	8024
	3	3.5	0.21	220	0	-	4.5	-20	75	PUR	121V5397 ₂	-	495910	*	-	0.3 to 3	3.0/6.0/8.0	8024
	3	3.5	0.21	220	0	-	2	-20	75	PUR	121V5397 ₂	2995	496125	-	1.6		3.0/6.0/8.0	8024
	4	7	0.42	450	0	10	4	-10	100	FKM	121V5206	2995	481865	8	9		2.0	8116
	4	7	0.42	450	0	10	5	-10	120	FKM	121V5206	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	10	10	-10	120	FKM	121V5206	4270	486265	14	14		2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	100	PTFE	121V5212 ₁	2995	481865	8	9		2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	130	PTFE	121V5212 ₁	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	130	PTFE	121V5212 ₁	4270	486265	14	14		2.0	8116
	4	7	0.42	450	0	12	4	0	100	Ruby	121V5263 ₁	2995	481865	8	9		2.0	8116
	4	7	0.42	450	0	15	5	0	130	Ruby	121V5263 ₁	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	22	10	0	180	Ruby	121V5263 ₁	4270	486265	14	14		2.0	8116
	5	10	0.6	750	0	7	2	-10	100	FKM	121V5106	2995	481865	8	9		2.0	8116
	5	10	0.6	750	0	7	2.8	-10	120	FKM	121V5106	4270	481000	8	8		2.0	8116
	5	10	0.6	750	0	7	5	-10	120	FKM	121V5106	4270	486265	14	14		2.0	8116
	5	10	0.6	-	0	2.8	2	0	100	PTFE	121V5112 ₁	2995	481865	8	9		2.0	8116
	5	10	0.6	-	0	2.8	2.8	0	130	PTFE	121V5112 ₁	4270	481000	8	8		2.0	8116
	5	10	0.6	-	0	2.8	2.8	0	130	PTFE	121V5112 ₁	4270	486265	14	14		2.0	8116
	5	10	0.6	750	0	8.5	2	0	100	Ruby	121V5163 ₁	2995	481865	8	9		2.0	8116
	5	10	0.6	750	0	10	3.5	0	130	Ruby	121V5163 ₁	4270	481000	8	8		2.0	8116
	5	10	0.6	750	0	14	6.5	0	140	Ruby	121V5163 ₁	4270	486265	14	14		2.0	8116

Notes:

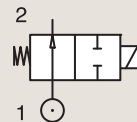
1. Valve only compatible with hydraulic oil and neutral liquids
2. Valve compatible with water only up to 40°C



2/2

HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL) DIRECT OPERATED

303 STAINLESS ST.
PIPE MOUNTING

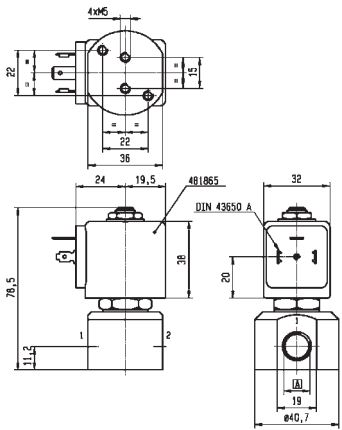


NORMALLY OPEN

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	2.5	3	0.18	180	0	12	12	-30	100	FKM	122V8306	2995	481865	8	9	2.1	8116
	2.5	3	0.18	180	0	12	12	-30	120	FKM	122V8306	4270	481000	8	8	2.1	8116



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3	12	-30	-10
To	1/4"	2.5	3	12	120	50



A	G 1/8"
	G 1/4"



Drawing 8116

2 WAY VALVES





HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL)



Oil



Water



Air

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	316L Stainless St./Pipe Mounting	Normally Closed	1/4"	1.5 to 3.5	2.3	20	140	166	-
			1/8"	1.5 to 2.5	2.3	20	140	166	-
			1/2"	5 to 6.2	13	4	140	168	-
			3/8"	5 to 6.2	13	4	140	168	-
			1/4"	1	0.6	98	75	-	170
Magnalift	316L Stainless St./Pipe Mounting	Normally Closed	1/2"	15	50	10	140	172	-
			3/4"	24	95	10	140	172	-
			3/8"	15	40	10	140	172	-
			1"	24	105	10	140	174	-

2/2

HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL) DIRECT OPERATED



Commercial Equipment



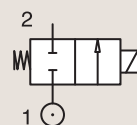
Medical / Instrumentation



Industrial Equipment

316L STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



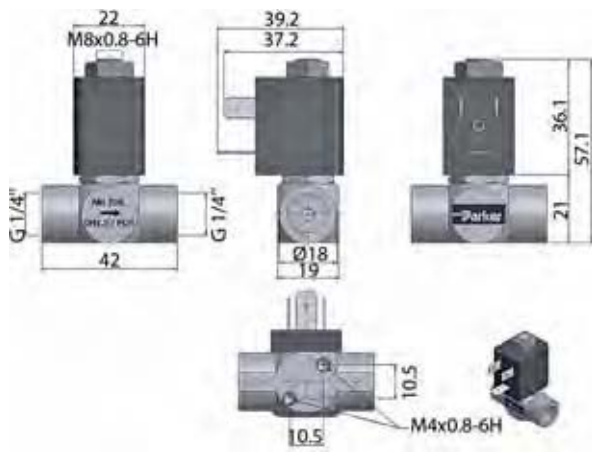
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.		Coil Ref.	AC W	DC W				
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	1.5	1	0.06	-	0	20	-	-10	140	FKM	201LG1GVG2	-	WB4.5	4.5	-	1.1/1.3	074
	1.5	1	0.06	-	0	-	10	-10	140	FKM	201LG1GVG2	-	WB5.0	-	5	1.1/1.3	074
	2	1.8	0.11	-	0	15	-	-10	140	FKM	201LG1JVG2	-	WB4.5	4.5	-	1.1/1.3	074
	2	1.8	0.11	-	0	-	7	-10	140	FKM	201LG1JVG2	-	WB5.0	-	5	1.1/1.3	074
	2.5	2.3	0.14	-	0	10	-	-10	140	FKM	201LG1LVG2	-	WB4.5	4.5	-	1.1/1.3	074
	2.5	2.3	0.14	-	0	-	4	-10	140	FKM	201LG1LVG2	-	WB5.0	-	5	1.1/1.3	074
1/4"	1.5	1	0.06	-	0	20	-	-10	140	FKM	201LG2GVG2	-	WB4.5	4.5	-	1.1/1.3	075
	1.5	1	0.06	-	0	-	10	-10	140	FKM	201LG2GVG2	-	WB5.0	-	5	1.1/1.3	075
	2	1.8	0.11	-	0	15	-	-10	140	FKM	201LG2JVG2	-	WB4.5	4.5	-	1.1/1.3	075
	2	1.8	0.11	-	0	-	7	-10	140	FKM	201LG2JVG2	-	WB5.0	-	5	1.1/1.3	075
	2.5	2.3	0.14	-	0	10	-	-10	140	FKM	201LG2LVG2	-	WB4.5	4.5	-	1.1/1.3	075
	2.5	2.3	0.14	-	0	-	4	-10	140	FKM	201LG2LVG2	-	WB5.0	-	5	1.1/1.3	075
	3	0.5	0.03	-	0	8	8	-10	140	FKM	201LG2NVG7	-	481865	8	9	2.0	076
	3	0.5	0.03	-	0	10	11	-10	140	FKM	201LG2NVG7	-	491514	13	16	2.0	076
	3.5	0.6	0.04	-	0	6	6	-10	140	FKM	201LG2PVG7	-	481865	8	9	2.0	076
	3.5	0.6	0.04	-	0	7	8	-10	140	FKM	201LG2PVG7	-	491514	13	16	2.0	076



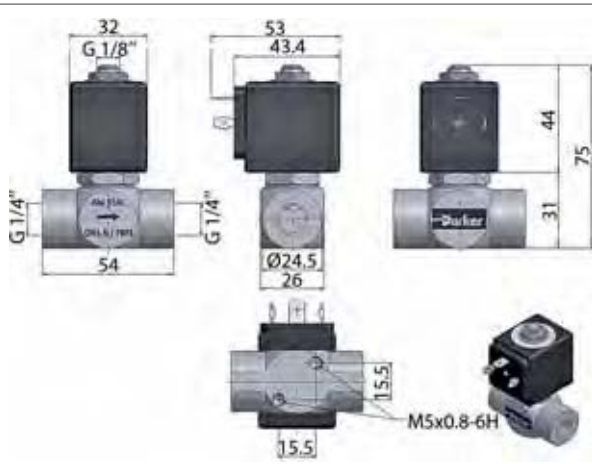
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	0.5	4	-10	-10
To	1/4"	3.5	2.3	20	140	50



Drawing 074



Drawing 075

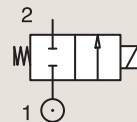


Drawing 076

2/2

HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL) DIRECT OPERATED

316L STAINLESS ST.
PIPE MOUNTING

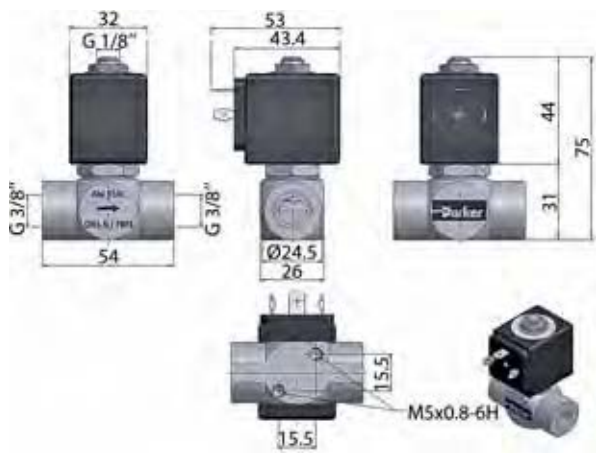


NORMALLY CLOSED

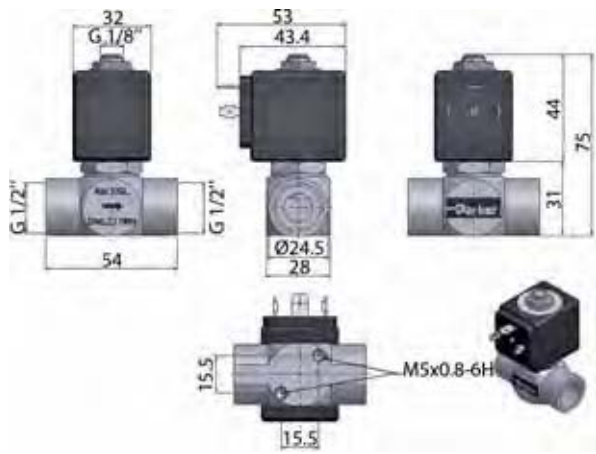
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/8"	5	11	0.66	-	0	3	3	-10	140	FKM	201LG3SVG7	-	481865	8	9	2.0	077
	5	11	0.66	-	0	4	4	-10	140	FKM	201LG3SVG7	-	491514	13	16	2.0	077
	6.2	13	0.78	-	0	2	2	-10	140	FKM	201LG3UVG7	-	481865	8	9	2.0	077
	6.2	13	0.78	-	0	2	3	-10	140	FKM	201LG3UVG7	-	491514	13	16	2.0	077
1/2"	5	11	0.66	-	0	3	3	-10	140	FKM	201LG4SVG7	-	481865	8	9	2.0	078
	5	11	0.66	-	0	4	4	-10	140	FKM	201LG4SVG7	-	491514	13	16	2.0	078
	6.2	13	0.78	-	0	2	2	-10	140	FKM	201LG4UVG7	-	481865	8	9	2.0	078
	6.2	13	0.78	-	0	2	3	-10	140	FKM	201LG4UVG7	-	491514	13	16	2.0	078



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	5	11	2	-10	-10
To	1/2"	6.2	13	4	140	50



Drawing 077

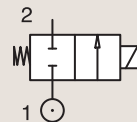


Drawing 078

2/2

HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL) DIRECT OPERATED

316L STAINLESS ST.
PIPE MOUNTING



NORMALLY CLOSED

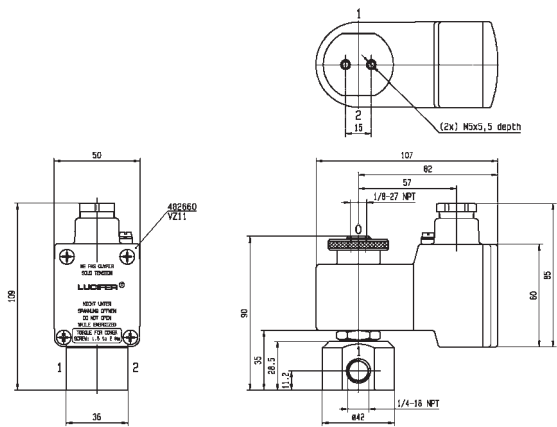
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
		mm	Kv /min	KV m³/h	Qn /min	bar	AC bar	DC bar	°C									
1/4" NPT	1	0.6	0.036	40	0	-	98	-40	75	PUR	U121V5595 ₁	-	492210	-	1.8	-	9.0/10.1	6713
	1	0.6	0.036	40	0	-	98	-40	75	PUR	U121V5595 ₁	-	496565	*	-	0.3	9.0/10.1	6713
	1	0.6	0.036	40	0	98	98	-40	75	PUR	U121V5595 ₁	-	496800	8	8	9.0/10.1	6713	
	1	0.6	0.036	40	0	98	98	-40	75	PUR	U121V5595 ₁	-	496895	8	8	9.0/10.1	6713	
	1	0.6	0.036	40	0	98	98	-40	75	PUR	U121V5596 ₁	-	492310	6	6	10.1	6713	
	1	0.6	0.036	40	0	98	98	-40	75	PUR	U121V5596 ₁	-	496560	8	8	10.1	6713	
	1	0.6	0.036	40	0	98	98	-40	75	PUR	U121V5596 ₁	-	496800	8	8	10.1	6713	
	1	-	-	40	0	98	98	-10	75	PUR	U121V55961D ₁	-	483270	8	8	11.0	6714	
	1	-	-	40	0	98	98	-10	75	PUR	U121V55961D ₁	-	483270.02	8	8	11.0	6714	

Notes:

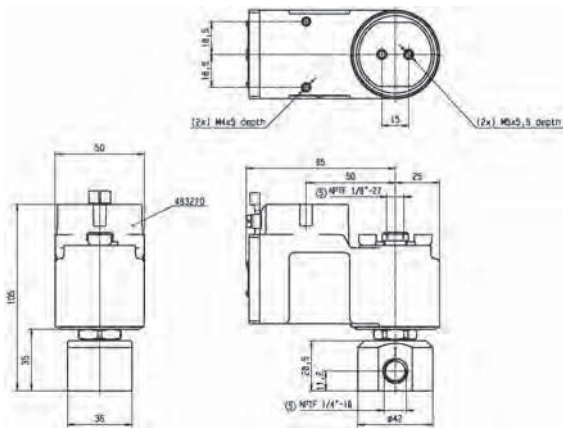
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1	-	98	-40	-40
To	1/4"	1	0.6	98	75	50



Drawing 6713



Drawing 6714

2/2

HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL) MAGNALIFT



Commercial Equipment



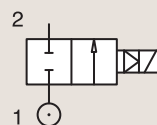
Medical / Instrumentation



Industrial Equipment

316L STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



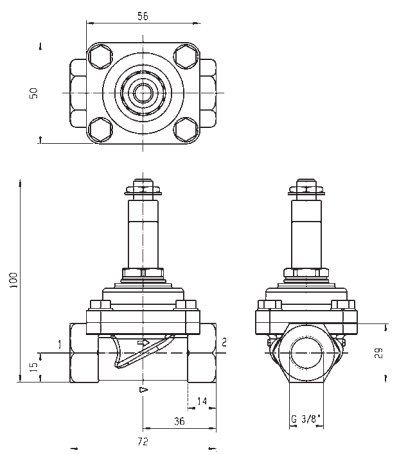
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C								
3/8"	15	40	2.4	-	0	10	-	-10	85	EPDM	221S10E	2995	481865	8	-	2.0	067
	15	40	2.4	-	0	10	7	-10	140	EPDM	221S10E ₁	4270	486265	14	14	2.0	067
	15	40	2.4	-	0	10	-	-10	85	FKM	221S10F	2995	481865	8	-	2.0	067
	15	40	2.4	-	0	10	7	-10	85	FKM	221S10F ₁	4270	486265	14	14	2.0	067
1/2"	15	50	3	-	0	10	-	-10	85	EPDM	221S15E	2995	481865	8	-	2.0	068
	15	50	3	-	0	10	7	-10	140	EPDM	221S15E ₁	4270	486265	14	14	2.0	068
	15	50	3	-	0	10	-	-10	85	FKM	221S15F	2995	481865	8	-	2.0	068
	15	50	3	-	0	10	7	-10	85	FKM	221S15F ₁	4270	486265	14	14	2.0	068
3/4"	24	95	5.7	-	0	10	-	-10	85	EPDM	221S20E	2995	481865	8	-	2.0	069
	24	95	5.7	-	0	10	7	-10	140	EPDM	221S20E ₁	4270	486265	14	14	2.0	069
	24	95	5.7	-	0	10	-	-10	85	FKM	221S20F	2995	481865	8	-	2.0	069
	24	95	5.7	-	0	10	7	-10	85	FKM	221S20F ₁	4270	486265	14	14	2.0	069

Notes:

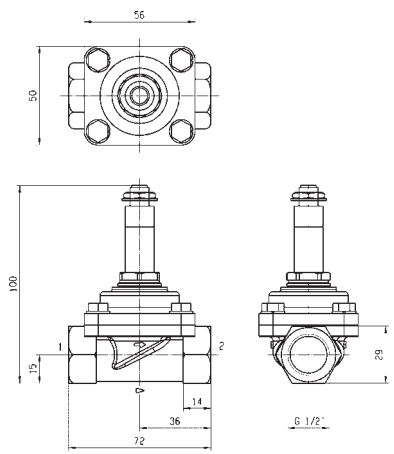
1. Maximum pressure for steam: 4 Bar (140°C)



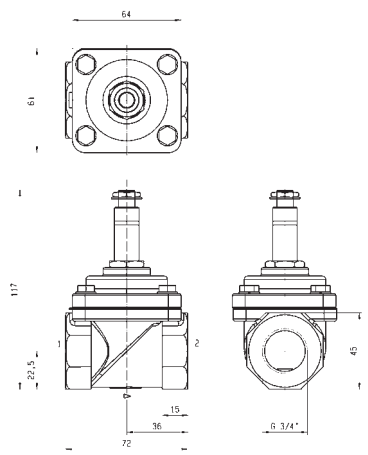
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	40	7	-10	-10
To	3/4"	24	95	10	140	50



Drawing 067



Drawing 068

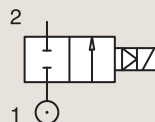


Drawing 069

2/2

HIGH CORROSION RESISTANT VALVES (316L STAINLESS STEEL) MAGNALIFT

316L STAINLESS ST.
PIPE MOUNTING



NORMALLY CLOSED

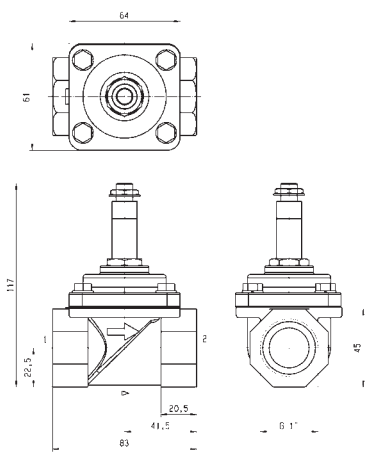
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	24	105	6.3	-	0	10	-	-10	85	EPDM	221S25E	2995	481865	8	-	2.0	070
	24	105	6.3	-	0	10	7	-10	140	EPDM	221S25E ₁	4270	486265	14	14	2.0	070
	24	105	6.3	-	0	10	-	-10	85	FKM	221S25F	2995	481865	8	-	2.0	070
	24	105	6.3	-	0	10	7	-10	85	FKM	221S25F ₁	4270	486265	14	14	2.0	070

Notes:

1. Maximum pressure for steam: 4 Bar (140°C)



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	24	105	7	-10	-10
To	1"	24	105	10	140	50



Drawing 070

2 WAY VALVES



OIL BURNER VALVES



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.7 to 4	5.3	30	160	178	184
			1/4"	2.5 to 4	6.5	30	160	180	184
			3/8"	5 to 11	22	30	160	182	184
			1/2"	5 to 14	25	30	160	182	184
	Brass/Pipe mounting	Normally Open	1/8"	2.5 to 3	4	30	160	186	188
			1/4"	2.5 to 3	4	30	160	186	188
	Brass/Sub-base mounting	Normally Closed	14 mm	14	25	30	160	-	188
Magnalift Pilot Operated	Brass/Pipe mounting	Normally Closed	1/2"	15	50	5	140	-	190
	Brass/Pipe mounting	Normally Closed	1/4"	8	36	40	140	-	192
			3/8"	11	50	40	160	-	192
			1/2"	15	60	40	160	-	194
Pilot Operated	Brass/Sub-base mounting	Normally Closed	14 mm	14	45	30	160	-	194

2/2

OIL BURNER VALVES
DIRECT OPERATED

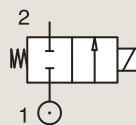
Heating Systems



Commercial Equipment

BRASS
PIPE MOUNTING

NORMALLY CLOSED



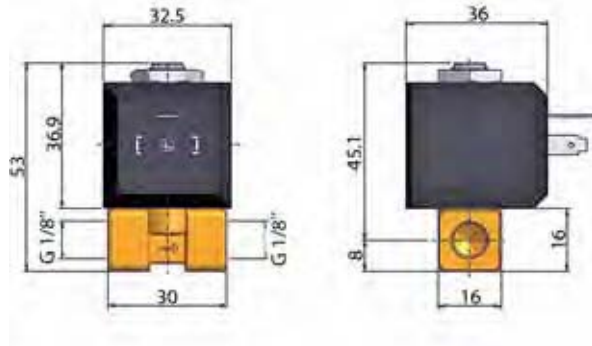
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn m³/h	bar	AC bar	DC bar	°C	°C								
1/8"	1.7	1.4	0.086	-	0	25	-	-10	90	NBR	390034 ₂	131IN	KT09 110-120/60	9	-	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	NBR	390085 ₂	131IN	KT09 208-230/60	9	-	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	NBR	390005 ₂	131IN	KT09 24/50	9	-	22.0	015
	1.7	1.4	0.086	-	0	-	22	-10	90	NBR	390120 ₂	131IN	KT10 24 DC	-	10	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	NBR	390300 ₁₂	131INDIN	XT09 230/50	9	-	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	FKM	390086 ₂	131IV	KT09 208-230/60	9	-	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	FKM	390088 ₁₂	131IV	KT09 230/50	9	-	22.0	015
	1.7	1.4	0.086	-	0	25	-	-10	90	FKM	390089 ₂	131IV	KT09 240/50	9	-	22.0	015
	2.2	2	0.12	-	0	15	-	-10	90	NBR	390216 ₂	131AN	KT09 208-230/60	9	-	22.0	015
	2.2	2	0.12	-	0	15	-	-10	90	NBR	390165 ₂	131AN	KT09 230/50	9	-	22.0	015
	2.2	2	0.12	-	0	15	-	-10	90	NBR	390145 ₂	131AN	KT09 24/50	9	-	22.0	015
	2.2	2	0.12	-	0	15	-	-10	90	NBR	390150 ₂	131AN	KT09 42/50	9	-	22.0	015
	2.2	2	0.12	-	0	-	13	-10	90	NBR	390195 ₂	131AN	KT10 12 DC	-	10	22.0	015
	2.2	2	0.12	-	0	-	13	-10	90	NBR	390215 ₂	131AN	KT10 24 DC	-	10	22.0	015
	2.5	3.2	0.192	-	0	30	-	-30	140	Ruby	362496J	PM140IR	ZB09	9	-	20.1/20.2	027
	2.5	3.2	0.192	-	0	-	17	-30	140	Ruby	362496J	PM140IR	ZB12	-	12	20.1/20.2	027
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390445 ₂	131.4BV	KT09 115/50	9	-	22.0	012
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390457 ₂	131.4BV	KT09 115/60	9	-	22.0	012
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390458 ₂	131.4BV	KT09 208-230/60	9	-	22.0	012
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390465 ₂	131.4BV	KT09 230/50	9	-	22.0	012
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390405 ₂	131.4BV	KT09 24/50	9	-	22.0	012
	2.8	2.9	0.174	-	0	-	6	-10	140	FKM	390495 ₂	131.4BV	KT10 12 DC	-	10	22.0	012
	2.8	2.9	0.174	-	0	-	6	-10	140	FKM	390505 ₂	131.4BV	KT10 24 DC	-	10	22.0	012

Notes:

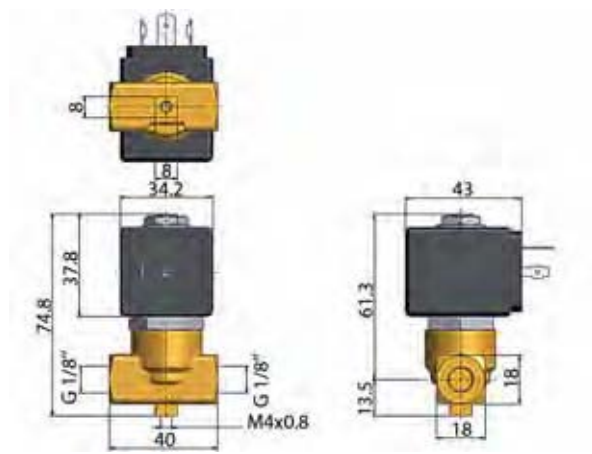
- DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
- Ordering number is for an assembled valve and coil, with the voltage shown.



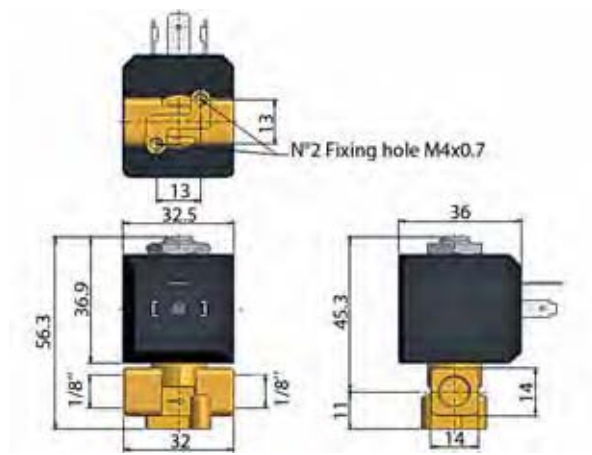
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.7	1.4	6	-30	-10
To	1/8"	2.8	3.2	30	140	50



Drawing 015



Drawing 027



Drawing 012

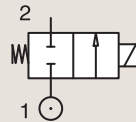
2/2

OIL BURNER VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



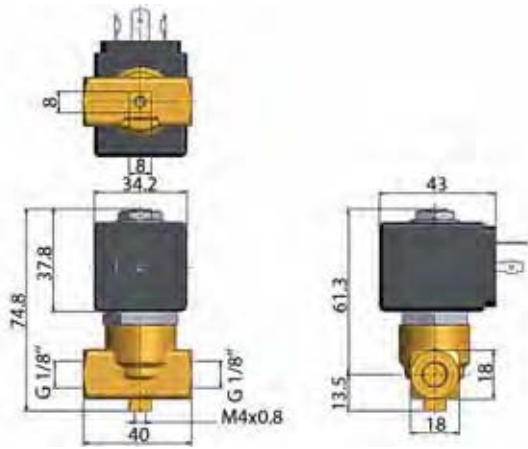
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	Max(MOPD)	DC bar	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	AC bar	bar	°C	°C								
1/8"	3	4	0.24	-	0	30	-	-30	140	Ruby	362510J ₁	PM140.4AR	ZH14	14	-	20.2	025
	4	5.3	0.318	-	0	2	-	-10	90	NBR	390874 ₂	131.4CG	KT09 115/50	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	NBR	390813 ₂	131.4CG	KT09 115/60	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	NBR	390878 ₂	131.4CG	KT09 230/50	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	NBR	390805 ₂	131.4CG	KT09 24/50	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	NBR	390875 ₂	131.4CG	KT09 240/50	9	-	22.0	013
	4	5.3	0.318	-	0	-	1	-10	90	NBR	390803 ₂	131.4CG	KT10 12DC	-	10	22.0	013
	4	5.3	0.318	-	0	-	1	-10	90	NBR	390802 ₂	131.4CG	KT10 24 DC	-	10	22.0	013
1/4"	2.5	3.2	0.192	-	0	30	-	-30	140	Ruby	362518J ₁	PM140CR	ZB09	9	-	20.1/20.2	026
	2.5	3.2	0.192	-	0	-	17	-30	140	Ruby	362518J ₁	PM140CR	ZB12	-	12	20.1/20.2	026
	2.5	3.2	0.192	-	0	30	-	-30	140	Ruby	362518J ₁	PM140CR	ZH14	14	-	20.1/20.2	026
	2.5	3.2	0.192	-	0	-	17	-30	140	Ruby	362518J ₁	PM140CR	ZH16	-	16	20.1/20.2	026
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390560 ₂	131.4FV	KT09 115/50	9	-	22.0	014
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390560 ₂	131.4FV	KT09 115/60	9	-	22.0	014
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390626 ₂	131.4FV	KT09 208-230/60	9	-	22.0	014
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390580 ₂	131.4FV	KT09 230/50	9	-	22.0	014
	2.8	2.9	0.174	-	0	8	-	-10	140	FKM	390525 ₂	131.4FV	KT09 24/50	9	-	22.0	014
	2.8	2.9	0.174	-	0	-	6	-10	140	FKM	390605 ₂	131.4FV	KT10 12 DC	-	10	22.0	014
	2.8	2.9	0.174	-	0	-	6	-10	140	FKM	390625 ₂	131.4FV	KT10 24 DC	-	10	22.0	014
	3	4	0.24	-	0	30	-	-30	140	Ruby	362530J ₁	PM140.4DR	ZH14	14	-	20.0/20.1/20.2	026
	3	4	0.24	-	0	30	-	-30	140	Ruby	362524J	PM140DR	ZB09	9	-	20.1/20.2	026
	3	4	0.24	-	0	-	12	-30	140	Ruby	362524J	PM140DR	ZB12	-	12	20.1/20.2	026
	3	4	0.24	-	0	30	-	-30	140	Ruby	362524J	PM140DR	ZH14	14	-	20.1/20.2	026
	3	4	0.24	-	0	-	12	-30	140	Ruby	362524J	PM140DR	ZH16	-	16	20.1/20.2	026
	4	5.3	0.318	-	0	1	-	-10	90	NBR	390915 ₂	131.4GG	KT09 115/50	9	-	22.0	013
	4	5.3	0.318	-	0	1	-	-10	90	NBR	390945 ₂	131.4GG	KT09 230/50	9	-	22.0	013
	4	5.3	0.318	-	0	1	-	-10	90	NBR	390895 ₂	131.4GG	KT09 24/50	9	-	22.0	013
	4	5.3	0.318	-	0	1	-	-10	90	NBR	390975 ₂	131.4GG	KT09 240/50	9	-	22.0	013
	4	5.3	0.318	-	0	-	1	-10	90	NBR	390995 ₂	131.4GG	KT10 12 DC	-	10	22.0	013
	4	5.3	0.318	-	0	-	1	-10	90	NBR	390997 ₂	131.4GG	KT10 24 DC	-	10	22.0	013
	4	5.3	0.318	-	0	2	-	-10	140	FKM	390668 ₂	131.4GV	KT09 115/50	9	-	22.0	014
	4	5.3	0.318	-	0	2	-	-10	140	FKM	390700 ₂	131.4GV	KT09 115/60	9	-	22.0	014
	4	5.3	0.318	-	1	2	-	-10	140	FKM	390725 ₂	131.4GV	KT09 208-230/60	9	-	22.0	014

Notes:

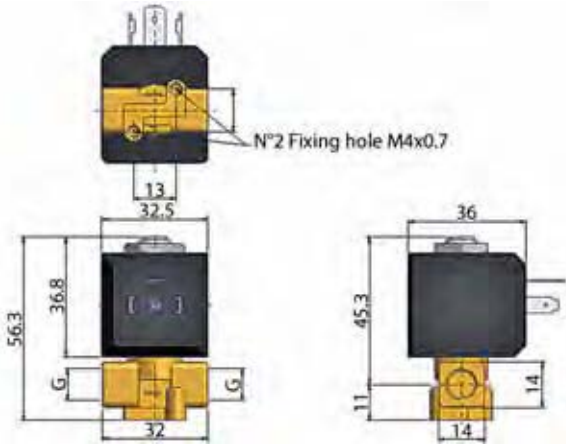
1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Ordering number is for an assembled valve and coil, with the voltage shown.



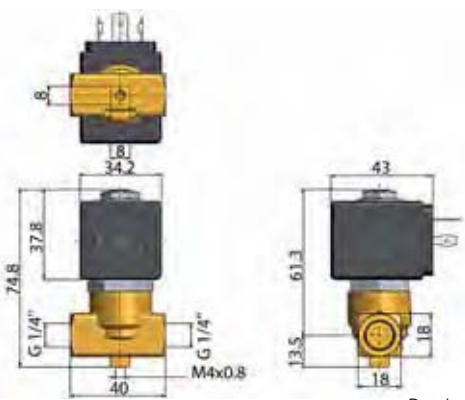
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2.5	2.9	1	-30	-10
To	1/4"	4	5.3	30	140	50



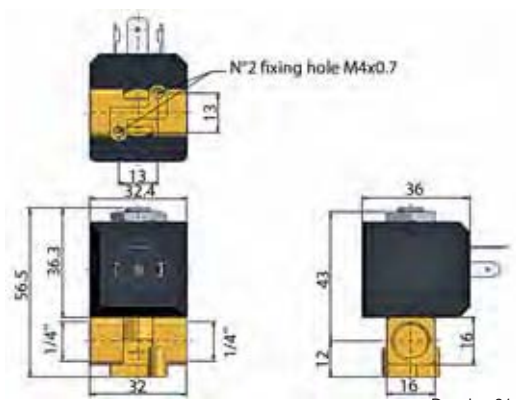
Drawing 025



Drawing 013



Drawing 026



Drawing 014

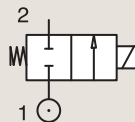
2/2

OIL BURNER VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



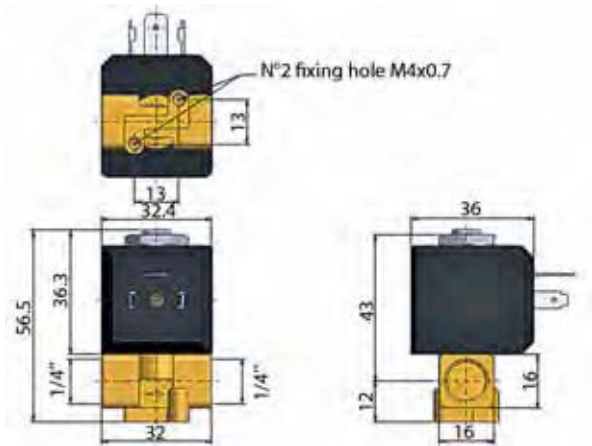
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Min	Max	Valve Order Number		Valve Type	Coil Type	AC W	DC W			
BSP	mm	l/min	m³/h	m³/h	bar	AC bar	DC bar	°C	°C								
1/4"	4	5.3	0.318	-	0	2	-	-10	140	FKM	390705 ₁	131.4GV	KT09 230/50	9	-	22.0	014
	4	5.3	0.318	-	0	2	-	-10	140	FKM	390650 ₁	131.4GV	KT09 24/50	9	-	22.0	014
	4	5.3	0.318	-	0	2	-	-10	140	FKM	390718 ₁	131.4GV	KT09 240/50	9	-	22.0	014
	4	5.3	0.318	-	0	-	1	-10	140	FKM	390720 ₁	131.4GV	KT10 12 DC	-	10	22.0	014
	4	5.3	0.318	-	0	-	1	-10	140	FKM	390721 ₁	131.4GV	KT10 24 DC	-	10	22.0	014
3/8"	5	10	0.612	-	0	5	-	-10	140	FKM	364010	PM153BV	ZB14	14	-	20.2/22.0	037
	5	10	0.612	-	0	-	1.5	-10	140	FKM	364010	PM153BV	ZB16	-	16	20.2/22.0	037
1/2"	5	10	0.612	-	0	5	-	-10	140	FKM	364035	PM153GV	ZB14	14	-	20.2/22.0	037
	5	10	0.612	-	0	-	1.5	-10	140	FKM	364035	PM153GV	ZB16	-	16	20.2/22.0	037

Notes:

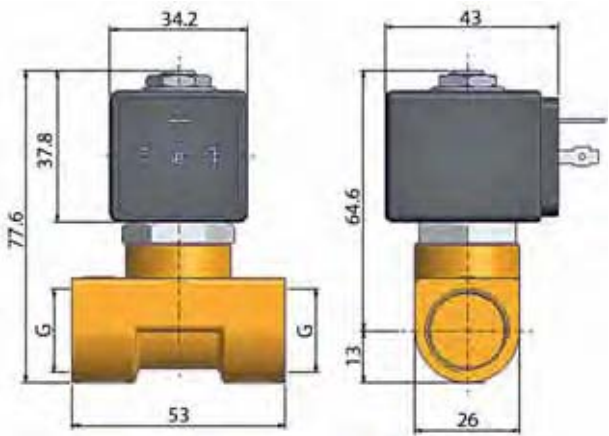
1. Ordering number is for an assembled valve and coil, with the voltage shown.



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	4	5.3	1	-10	-10
To	1/2"	5	10	5	140	50



Drawing 014



Drawing 037

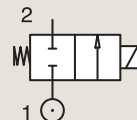
2/2

OIL BURNER VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

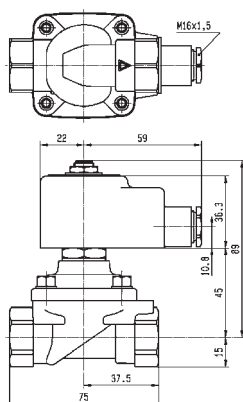
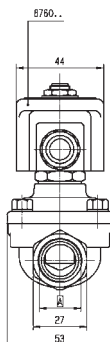


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
1/8"	3	4	0.24	-	0	30	-	-30	160	Ruby	121K2423 ¹³	8520.23	483824	19	-	14.1	3292
	3	4.5	0.27	-	0	30	-	-30	160	Ruby	121K6423 ¹³	8520.23	483824	19	-	14.1	3292
1/4"	4	6.5	0.39	-	0	30	-	0	160	Ruby	121K6220 ¹³	8520.23	483541	20	-	14.3	3510
	6	12	0.72	0	0	5	-	0	120	Ruby	121K3321	2995	492425	14	-	14.1	3551
3/8"	11	22	1.32	-	0	30	-	0	160	FKM	121G2320 ¹²³	8520.23	483541	20	-	14.3	3646
	14	25	1.5	-	0	30	-	0	160	FKM	121G2520 ¹²³	8520.23	483541	20	-	14.3	3646
1/2"	14	25	1.5	-	0	30	-	0	160	FKM	121G2523 ¹²³	8520.23	483824	19	-	14.1	3646

Notes:

1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Max. Static pressure = 30 bar; max pressure differential = 0.2 bar
3. Valve only compatible with hydraulic oil and neutral liquids

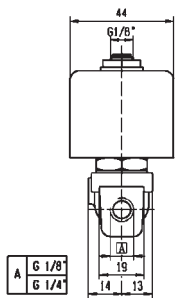
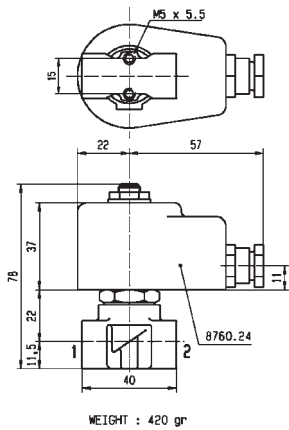
Valve	A
121G23	8 3/8"
121G25	6 1/2"



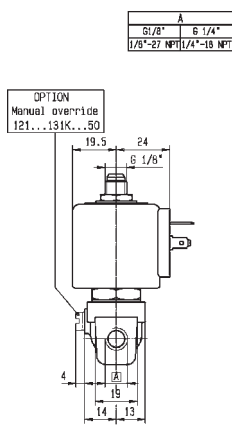
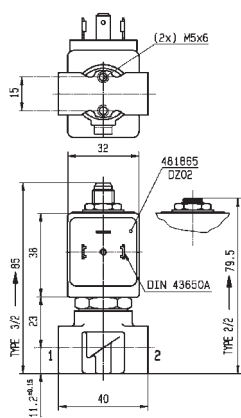
Drawing 3646



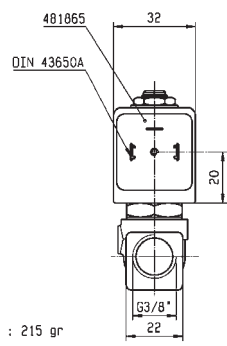
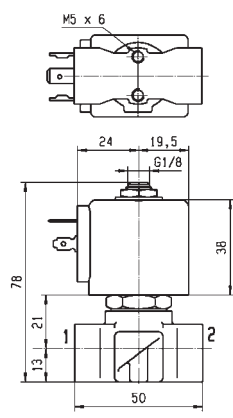
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	3	4	5	-30	0
To	1/2"	14	25	30	160	60



Drawing 3292



Drawing 3510



Drawing 3551

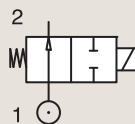
2/2

OIL BURNER VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



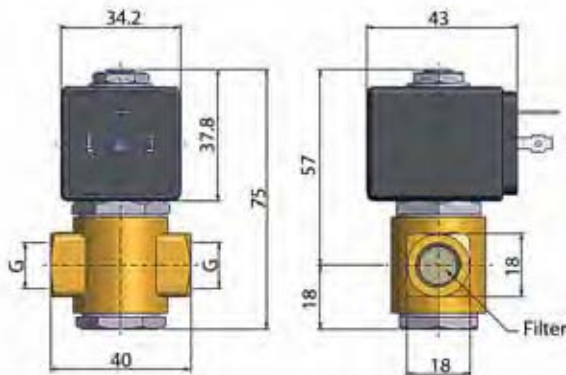
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	AC bar	DC bar	°C	°C								
1/8"	3	4	0.24	-	0	30	-	-30	160	Ruby	360451J	PM120.4IR	ZB14	14	-	20.2	001
	3	4	0.24	-	0	30	-	-30	160	Ruby	360451J ₁	PM120.4IR	ZH14	14	-	20.2	001
1/4"	3	4	0.24	-	0	30	-	-30	160	Ruby	360452J	PM120.4AR	ZB14	14	-	20.2	001
	3	4	0.24	-	0	30	-	-30	160	Ruby	360452J ₁	PM120.4AR	ZH14	14	-	20.2	001

Notes:

1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	3	4	30	-30	-10
To	1/4"	3	4	30	160	50



Drawing 001

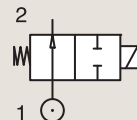
2/2

OIL BURNER VALVES
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
1/8"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K9321	8520.23	483824	19	-	14.1	6766
1/4"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K8321	8520.23	483824	19	-	14.1	6766

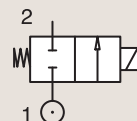
Notes:

1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



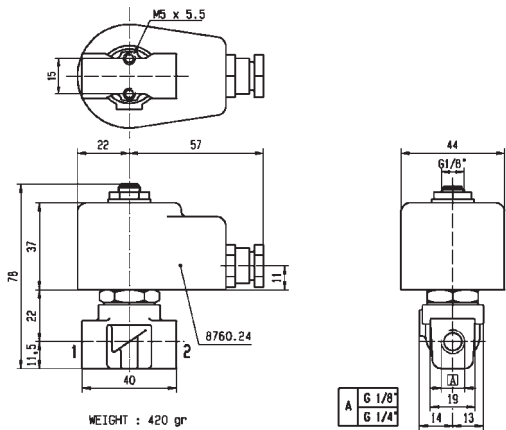
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C								
SB	14	25	1.5	-	0	30	-	0	160	FKM	121F2523	8520.23	483824	19	-	14.1	7638

Notes:

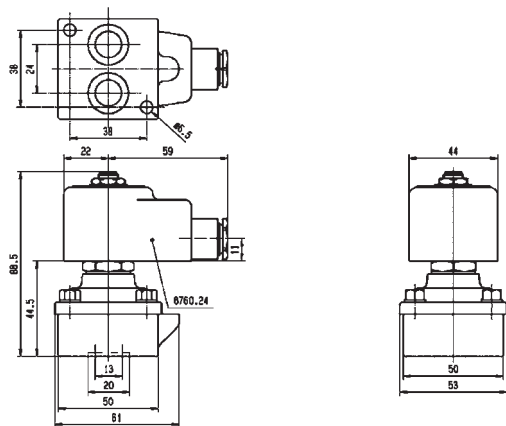
1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2.5	3.5	30	-30	0
To	14 mm	14	25	30	160	60



Drawing 6766



Drawing 7638

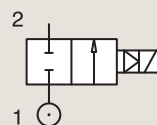
2/2

OIL BURNER VALVES
MAGNALIFT

Heating Systems

BRASS
PIPE MOUNTING

NORMALLY CLOSED



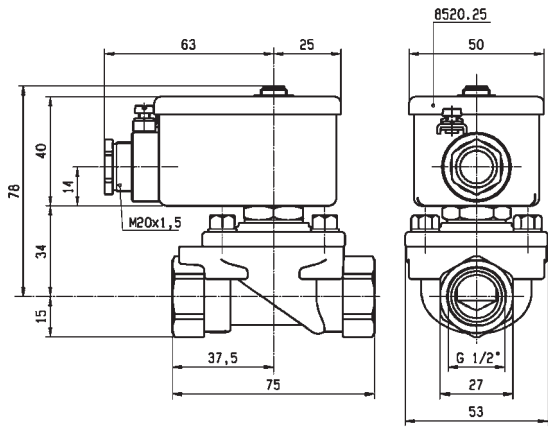
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C								
1/2"	15	50	3	0	0	5	-	0	140	FKM	221G2523 ₁	8520.25	483824	19	-	14.1	8298

Notes:

1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	15	50	5	0	0
To	1/2"	15	50	5	140	60



Drawing 8298

2/2

OIL BURNER VALVES
PILOT OPERATED

Commercial Equipment



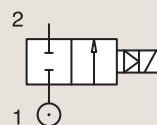
Industrial Equipment



Heating Systems

BRASS
PIPE MOUNTING

NORMALLY CLOSED



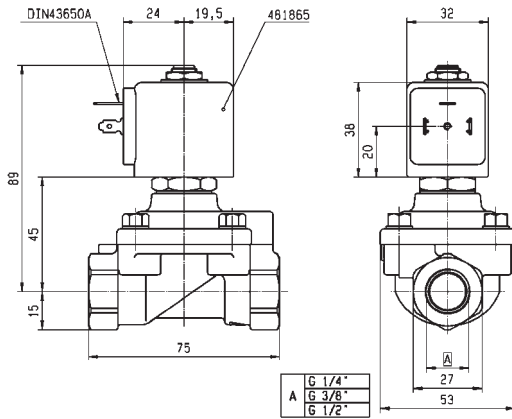
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
1/4"	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21 ²³⁴	2995	481865	8	9	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21 ²³⁴	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21 ²³⁴	4270	486265	14	14	2.0	3523
3/8"	11	40	2.4	-	0.3	30	-	0	160	Ruby	321H2322 ¹²⁴	8520.23	483541	20	-	14.3	3633
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23 ²³⁴	2995	481865	8	9	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23 ²³⁴	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23 ²³⁴	4270	486265	14	14	2.0	3521

Notes:

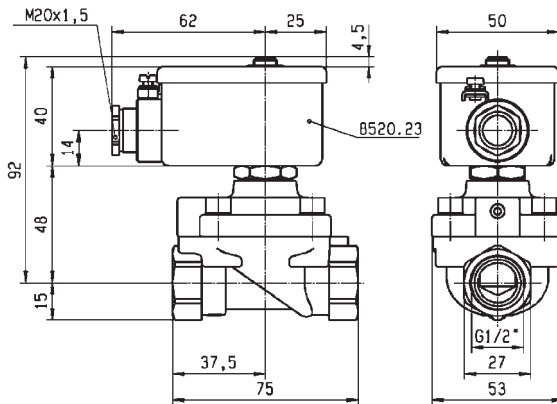
1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
3. Pilot seat disc in synthetic Ruby
4. Valve only compatible with hydraulic oil and neutral liquids



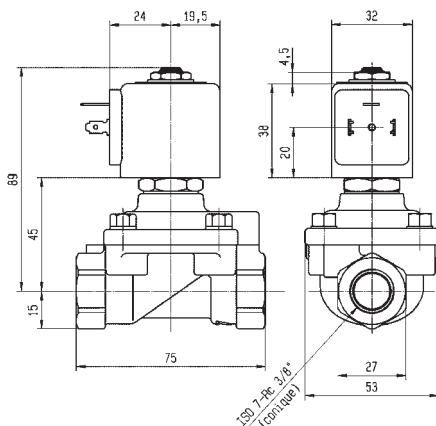
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	25	-10	-10
To	3/8"	11	50	40	160	50



Drawing 3523



Drawing 3633



Drawing 3521



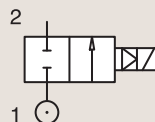
2/2

OIL BURNER VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C								
1/2"	15	60	3.6	-	0.3	30	-	0	160	Ruby	321H2522 ¹⁴	8520.23	483541	20	-	14.3	3633
	15	60	3.6	-	0.3	30	-	0	160	Ruby	321H2523 ¹⁴	8520.23	483824	19	-	14.1	3633
	15	60	3.6	-	0.3	40	25	-10	100	FKM	E321H25 ²³⁴	2995	481865	8	9	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	120	FKM	E321H25 ²³⁴	-	483371	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	E321H25 ²³⁴	4270	486265	14	14	2.0/14.2	3522

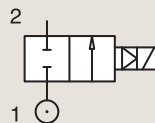
Notes:

1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
3. Pilot seat disc in synthetic Ruby
4. Valve only compatible with hydraulic oil and neutral liquids

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



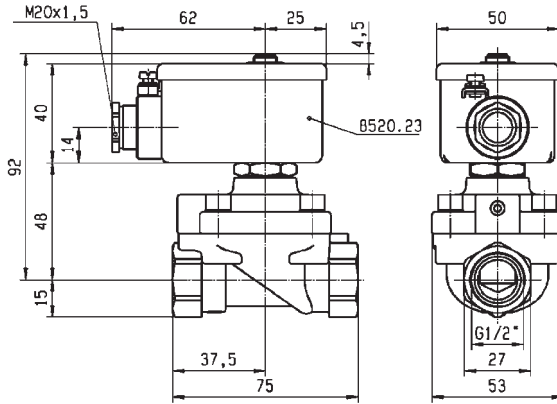
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	mm	Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C								
SB	14	45	2.7	-	0	30	-	0	160	FKM	321F2523 ¹²	8520.23	483824	19	-	14.1	7639

Notes:

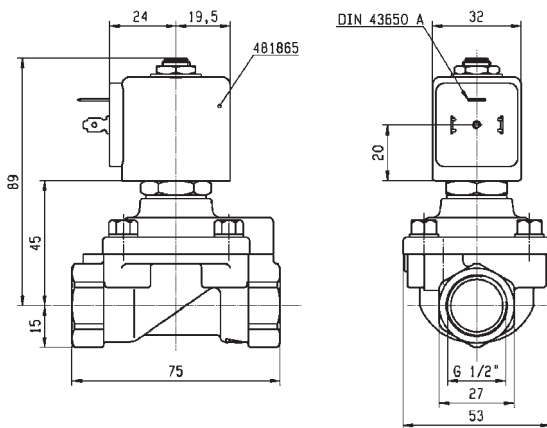
1. DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing



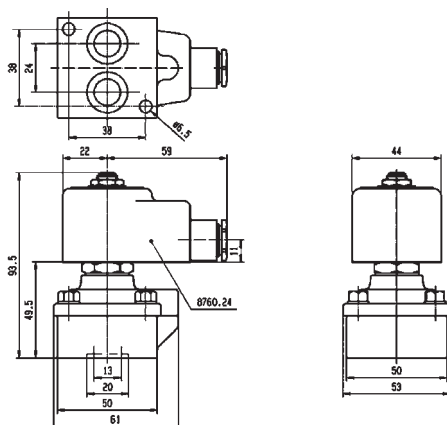
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	14	45	25	-10	-10
To	14 mm	15	60	40	160	50



Drawing 3633



Drawing 3522



Drawing 7639

2 WAY VALVES

FAST SWITCHING VALVES



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Magnalift	Brass/Pipe mounting	Normally Closed	3/8"	8	0	7	40	-	198

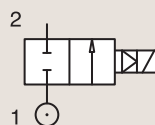
2/2

FAST SWITCHING VALVES
MAGNALIFT

Industrial Equipment

BRASS
PIPE MOUNTING

NORMALLY CLOSED

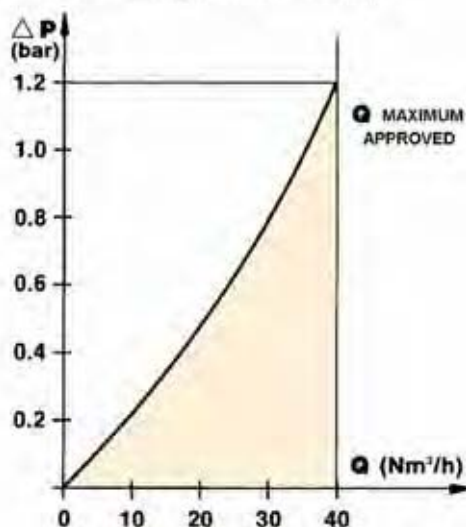


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
3/8"	8	-	-	-	0	-	7	0	40	PUR	221J3301E ¹	2995.6	483816	-	14		8020

Notes:

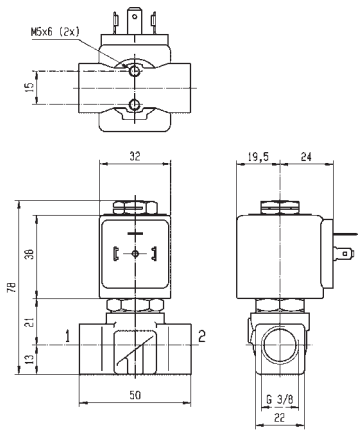
1. For more details, please consult catalogue 8674UK

Flow rate (valve on 100%)





For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	8	-	7	0	0
To	3/8"	8	-	7	40	50



Drawing 8020

2 WAY VALVES



VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®



Steam



Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Stainless St./Sub-base mounting	Normally Closed	SB	1.5 to 3	4.2	20	-	202

2/2

VALVES FOR BEVERAGE DISPENSING - LIQUIPURE® DIRECT OPERATED



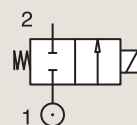
Beverage Dispensing



Medical / Instrumentation

STAINLESS ST. SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Parker Valves Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C					AC W	DC W		
SB	1.5	1.3	0.08	-	0	20	20	-10	140	Ruby	2019F1GRG7	-	D4	13	16	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	Ruby	2019F1GRG7	-	D5	8	9	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	Ruby	2019F1GRG7	-	LA	9	9	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	Ruby	2019F1GRG7	-	LB-LC	13	16	24.0	071
	1.5	1.3	0.08	-	0	20	-	-10	140	Ruby	2019F1GRG7	-	XS03	9	-	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	FDA FKM	2019F1GVG7	-	D4	13	16	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	FDA FKM	2019F1GVG7	-	D5	8	9	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	FDA FKM	2019F1GVG7	-	LA	9	9	24.0	071
	1.5	1.3	0.08	-	0	20	20	-10	140	FDA FKM	2019F1GVG7	-	LB-LC	13	16	24.0	071
	1.5	1.3	0.08	-	0	20	-	-10	140	FDA FKM	2019F1GVG7	-	XS03	9	-	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	Ruby	2019F1JRG7	-	D4	13	16	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	Ruby	2019F1JRG7	-	D5	8	9	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	Ruby	2019F1JRG7	-	LA	9	9	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	Ruby	2019F1JRG7	-	LB-LC	13	16	24.0	071
	2	2.3	0.14	-	0	15	-	-10	140	Ruby	2019F1JRG7	-	XS03	9	-	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	FDA FKM	2019F1JVG7	-	D4	13	16	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	FDA FKM	2019F1JVG7	-	D5	8	9	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	FDA FKM	2019F1JVG7	-	LA	9	9	24.0	071
	2	2.3	0.14	-	0	15	15	-10	140	FDA FKM	2019F1JVG7	-	LB-LC	13	16	24.0	071
	2	2.3	0.14	-	0	15	-	-10	140	FDA FKM	2019F1JVG7	-	XS03	9	-	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	Ruby	2019F1LRG7	-	D4	13	16	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	Ruby	2019F1LRG7	-	D5	8	9	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	Ruby	2019F1LRG7	-	LA	9	9	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	Ruby	2019F1LRG7	-	LB-LC	13	16	24.0	071



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.3	10	-10	-10
To	SB	2.5	3.2	20	140	50



Drawing 071

2/2

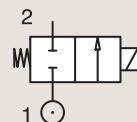
VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

STAINLESS ST.

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.				
		mm	Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C					Max °C	AC W		
SB	2.5	3.2	0.19	-	0	10	-	-10	140	Ruby	2019F1LRG7	-	XS03	9	-	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	FDA FKM	2019F1LVG7	-	D4	13	16	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	FDA FKM	2019F1LVG7	-	D5	8	9	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	FDA FKM	2019F1LVG7	-	LA	9	9	24.0	071
	2.5	3.2	0.19	-	0	10	10	-10	140	FDA FKM	2019F1LVG7	-	LB-LC	13	16	24.0	071
	2.5	3.2	0.19	-	0	10	-	-10	140	FDA FKM	2019F1LVG7	-	XS03	9	-	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	Ruby	2019F1NRG7	-	D4	13	16	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	Ruby	2019F1NRG7	-	D5	8	9	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	Ruby	2019F1NRG7	-	LA	9	9	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	Ruby	2019F1NRG7	-	LB-LC	13	16	24.0	071
	3	4.2	0.25	-	0	7	-	-10	140	Ruby	2019F1NRG7	-	XS03	9	-	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	FDA FKM	2019F1NVG7	-	D4	13	16	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	FDA FKM	2019F1NVG7	-	D5	8	9	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	FDA FKM	2019F1NVG7	-	LA	9	9	24.0	071
	3	4.2	0.25	-	0	7	7	-10	140	FDA FKM	2019F1NVG7	-	LB-LC	13	16	24.0	071
	3	4.2	0.25	-	0	7	-	-10	140	FDA FKM	2019F1NVG7	-	XS03	9	-	24.0	071



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2.5	3.2	7	-10	-10
To	SB	3	4.2	10	140	50



Drawing 071

3 WAY VALVES

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS



Oil



Water



Air

3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.2 to 2.5	3.5	20	140	208	
			1/8"-1/4"	2.5	3.5	7	75	-	210
			1/4"	1 to 4.5	7	30	140	208	
		Normally Open	1/4"	1.5 to 3	4.5	16	120	-	218
		Universal	1/8"	1.5 to 2.5	3.5	10	140	220	
			1/4"	0.8 to 3.5	5	30	140	220	
		Control by Electric Impulse	1/4"	1.5	1.5	16	100	-	224
	Brass/Sub-base mounting	Normally Closed	SB	1.3	1	20	140	226	
			3.5 mm	1.2 to 1.5	0.9	10	75	-	228
			5 mm	1 to 2.5	3.5	16	120	-	228
		Normally Open	5 mm	1.5 to 2.5	2.2	15	120	-	230
		Universal	1/8"-1/5"	1.5	1.5	10	120	-	232
			5 mm	1.5 to 2.5	3.5	10	120	-	232
	Anodized aluminium/Banjo	Normally Closed	1/8"	1.2	-	10	50	-	234
	303 Stainless St./Sub-base mounting	Normally Closed	5 mm	1.5	1.5	15	100	-	236
	POM/Sub-base mounting	Normally Closed	3 mm	2	2	10	50	-	238
Pilot Operated	Anodized aluminium/Pipe mounting	Normally Closed	1/4"	6.5 to 8	20	15	75	-	240
			1/2"	14	-	15	75	-	242
		Normally Open	1/4"	8	20	40	75	-	242
			1/2"	14	-	15	100	-	244
	Anodized aluminium/Sub-base mounting/Poppet	Normally Closed	1/2"	15	-	10	75	-	244

3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED



Industrial Equipment



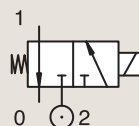
Commercial Equipment



Process

BRASS PIPE MOUNTING

NORMALLY CLOSED



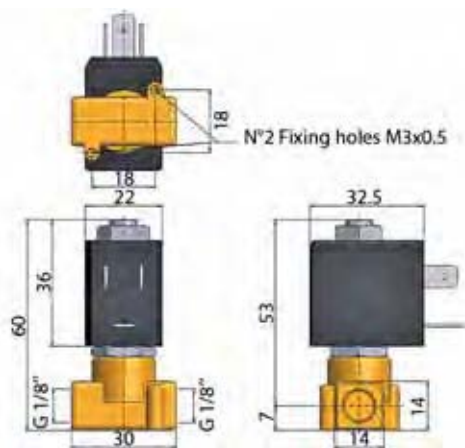
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/8"	1.2	1.6	0.7	-	0.04	-	0	8	-	-10	140	FKM	398102 ₁	N79.4IV	WB4.5 115/50-60	4.5	-	1.3	066
	1.2	1.6	0.7	-	0.04	-	0	14	-	-10	140	FKM	398104 ₁	N79.4IV	WB4.5 230/50-60	4.5	-	1.3	066
	1.2	1.6	0.7	-	0.04	-	0	14	-	-10	140	FKM	398120 ₁	N79.4IV	WB4.5 24/50-60	4.5	-	1.3	066
	1.2	1.6	0.7	-	0.04	-	0	14	-	-10	140	FKM	398100 ₁	N79.4IV	WB4.5 42/50-60	4.5	-	1.3	066
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398112 ₁	N79.4AV	WB4.5 230/50-60	4.5	-	1.3	066
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398122 ₁	N79.4AV	WB4.5 24/50-60	4.5	-	1.3	066
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398138 ₁	N79.6AV	WB4.5 115/50-60	4.5	-	1.3	080
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398130U ₁	N79.6AV	WB4.5 115/60	4.5	-	1.3	080
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398114 ₁	N79.6AV	WB4.5 230/50-60	4.5	-	1.3	080
	1.5	1.6	1	-	0.06	-	0	8	-	-10	140	FKM	398142 ₁	N79.6AV	WB4.5 240/50-60	4.5	-	1.3	080
	1.5	1.5	1.2	-	0.07	-	0	20	-	-10	140	FKM	362560J	PM141AV	ZB09	9	-	20.1/20.2	029
	2	1.6	1.5	-	0.09	-	0	5	-	-10	140	FKM	398134U ₁	N79.6BV	WB4.5 115/60	4.5	-	1.3	080
	2	1.6	1.5	-	0.09	-	0	5	-	-10	140	FKM	398136U ₁	N79.6BV	WB4.5 208-240/60	4.5	-	1.3	080
	2	1.6	1.5	-	0.09	-	0	5	-	-10	140	FKM	398132 ₁	N79.6BV	WB4.5 230/50-60	4.5	-	1.3	080
1/4"	2	2.5	2	-	0.12	-	0	15	-	-10	140	FKM	362570J	PM141BV	ZB09	9	-	20.1/20.2	029
	2	2.5	2	-	0.12	-	0	15	-	-10	140	FKM	362620J	PM141FV	ZB09	9	-	20.1/20.2	033
	2.5	2.5	2.8	-	0.17	-	0	9	-	-10	140	FKM	362630J	PM141GV	ZB09	9	-	20.1/20.2	033

Notes:

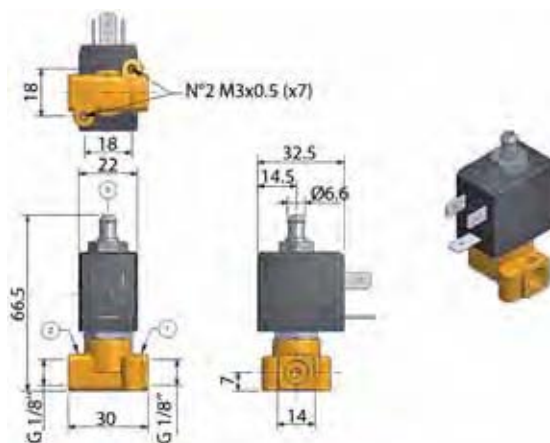
1. Ordering number is for an assembled valve and coil, with the voltage shown.



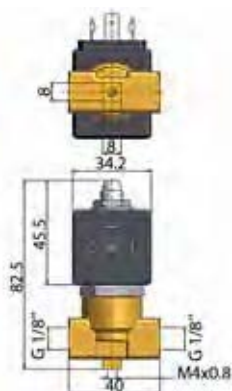
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.7	5	-10	-10
To	1/4"	2.5	2.8	20	140	50



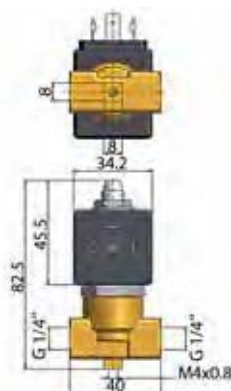
Drawing 066



Drawing 080



Drawing 029



Drawing 033

3/2

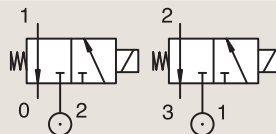
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

DIRECT OPERATED

BRASS

PIPE MOUNTING

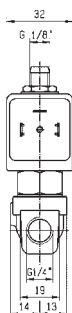
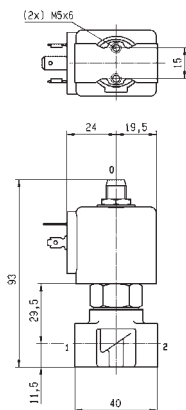
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max									
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C									
1/8"	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	131M15	8993	488980		2	2.5	1.1	3382
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	131M14	8993	488980		2	2.5	1.1	3382
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	E131K14	4270	481000		8	8	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131K14	2995	481865		8	9	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131K16	4270	481000		8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131K16	2995	481865		8	9	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131K1650 ₁	4270	481000		8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131K1650 ₁	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131K13	4270	481000		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	4270	486265		14	14	2.0	3510
1/8"-1/4"	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131K0397	2995	482740		-	1.6	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	2	2	-20	75	PUR	131K0397	-	495900		2.5	2	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131K0397	-	495910	*	-	0.3 to 3	6.0/8.0	8023
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	E131K0358 ₁	4270	481000		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	E131K0358 ₁	2995	481865		8	9	2.1	3510
1/4"	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	55	FKM	131K0490	2995	483580.01	*	-	0.5 to 3	7.0/8.0	7058
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131K0490	-	488660.01	*	-	0.3 to 3	7.0/8.0	7058
	1	1	0.6	-	0.03	-	0	-	10	-10	75	FKM	131K0490	-	495910	*	-	0.3 to 3	7.0/8.0	7058

Notes:

1. With manual override



Drawing 7058

[illegible]

Technical drawings of the 481855 DZ02 manual override. The drawings include a top view showing a 32mm width and 15mm height, with two M5x6 screws. A side view shows a 40mm width and 85mm height, with a 32mm diameter section. A detail view shows the 481855 DZ02 component with a 46mm diameter and 75.5mm height. A cross-section view shows the internal components with a 19.5mm diameter and 24mm height. A table indicates the manual override is available in two versions: 121...13K...50 and 121...13K...50. The table also shows the dimensions for the manual override: 121...13K...50 and 121...13K...50.

A	
61/8"	6 1/4"
1/8"-27 NPT	1/4"-18 NPT



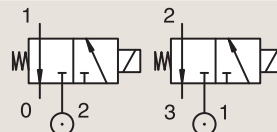
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max									
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C									
1/4"	1.2	1.5	0.8	1.5	0.05	0.09	0	30	-	-30	130	Ruby	E131K64	4270	481000		8	-	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	30	-30	140	Ruby	E131K64	4270	486265		14	14	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	-	-30	130	Ruby	E131K6450 ₁	4270	481000		8	-	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	30	-30	140	Ruby	E131K6450 ₁	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131K0497	2995	482740		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	131K0497	-	495900		2.5	2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131K0497	-	495910	*	-	0.3 to 3	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131K0497	2995	496125		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	120	FKM	E131K04	4270	481000		8	8	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	100	FKM	E131K04	2995	481865		8	9	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	120	FKM	E131K04	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	E131K0450 ₁	4270	481000		8	8	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131K0450 ₁	2995	481865		8	9	2.1	3510
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T23	4270	481000		8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T23	2995	481865		8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T23	4270	486265		14	14	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T2301 ₁	4270	481000		8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T2301 ₁	2995	481865		8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T2301 ₁	4270	486265		14	14	2.0	3223

Notes:

1. With manual override

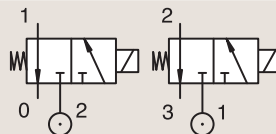
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

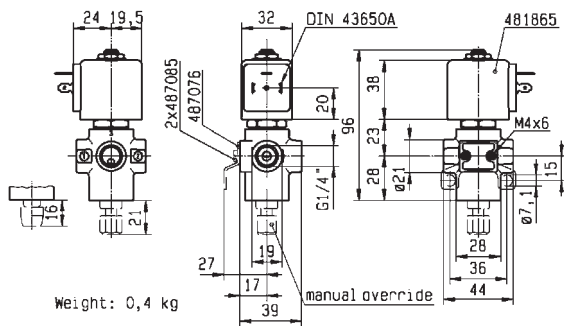
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	BSP	mm	Kv l/min	KV l/min	bar	AC bar	DC bar	°C	°C										
1/4"	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	E131K006	4270	481000	8	8	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	E131K006	2995	481865	8	9	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	E131K006	4270	486265	14	14	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	E131K00650 ₁	4270	481000	8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	E131K00650 ₁	2995	481865	8	9	2.1	3510
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131K0397	2995	496125	-	1.6	6.0/8.0	8023
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	131T29	4270	481000	8	8	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	131T29	2995	481865	8	9	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	131T2901 ₁	4270	481000	8	8	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	131T2901 ₁	2995	481865	8	9	2.1	3223

Notes:

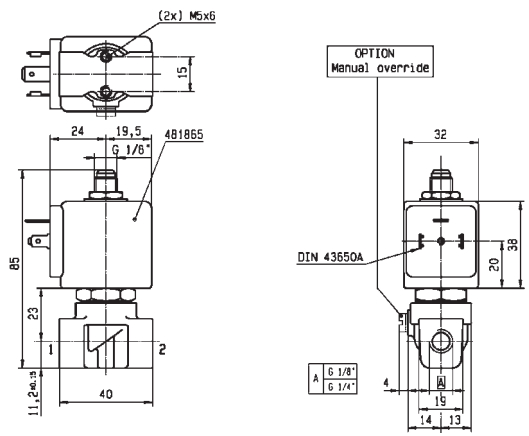
1. With manual override



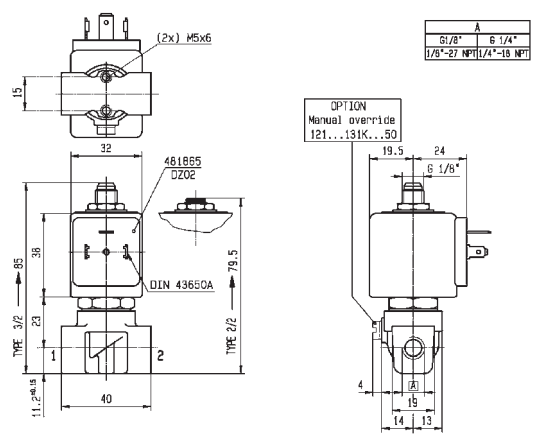
Drawing 3223



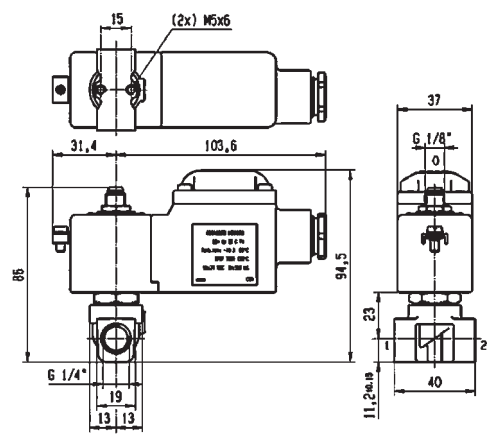
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2	2.5	2	-20	-20
To	1/4"	2.5	3.5	10	120	50



Drawing 8119



Drawing 3510



Drawing 8023

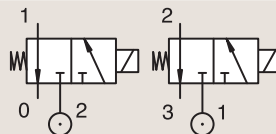
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/4"	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	E131E03	4270	481000	8	8	2.0	3525
	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	E131E03	2995	481865	8	9	2.0	3525
	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	E131E03	4270	486265	14	14	2.0	3525
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K03	4270	481000	8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K03	2995	481865	8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	E131K0308	4270	481000	8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	E131K0308	2995	481865	8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131K0350 ₁	4270	481000	8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K0350 ₁	2995	481865	8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	E131K63	4270	481000	8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	E131K63	2995	481865	8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	E131K6350 ₁	4270	481000	8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	E131K6350 ₁	2995	481865	8	9	2.1	3510
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	131T22	4270	481044	14	-	2.2	3223
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	131T22	2995	492425	14	-	2.2	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	131T21	4270	481000	8	8	2.0	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	131T21	2995	481865	8	9	2.0	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	131T21	4270	486265	14	14	2.0	3223

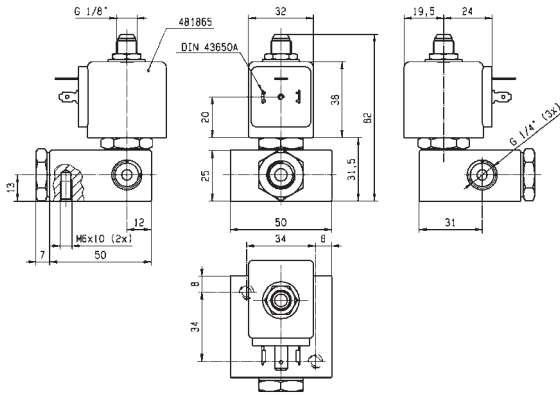
Notes:

1. With manual override

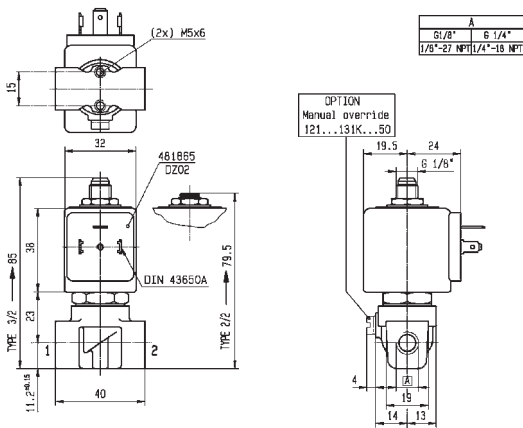
3 WAY VALVES



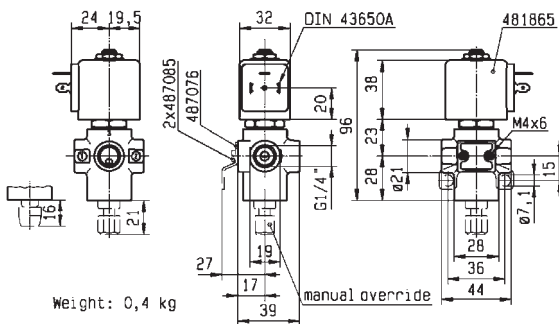
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	2.7	2	-40	-40
To	1/4"	4.5	7	10	130	50



Drawing 3525



Drawing 3510



Drawing 3223

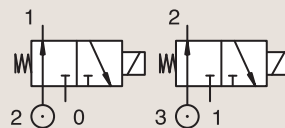
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/4"	1.5	1.5	1.4	1.4	0.08	0.08	0	16	16	-10	120	FKM	132K04	4270	481000	8	8	2.1	3510
	1.5	1.5	1.4	1.4	0.08	0.08	0	16	16	-10	100	FKM	132K04	2995	481865	8	9	2.1	3510
	2	2	1.8	1.8	0.10	0.10	0	10	10	-10	120	FKM	132K06	4270	481000	8	8	2.1	3510
	2	2	1.8	1.8	0.10	0.10	0	10	10	-10	100	FKM	132K06	2995	481865	8	9	2.1	3510
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	132T23	4270	481000	8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	132T23	2995	481865	8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	-	10	-10	75	FKM	132T23	4270	486265	-	14	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	132T2301 ₁	4270	481000	8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	132T2301 ₁	2995	481865	8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	-	10	-10	75	FKM	132T2301 ₁	4270	486265	-	14	2.0	3223
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	120	FKM	132K03	4270	481000	8	8	2.1	3510
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	100	FKM	132K03	2995	481865	8	9	2.1	3510
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	132T22	4270	481044	14	-	2.2	3223
	3	4	4.5	6	0.27	0.36	0	7	-	-10	75	FKM	132T22	2995	492425	14	-	2.2	3223

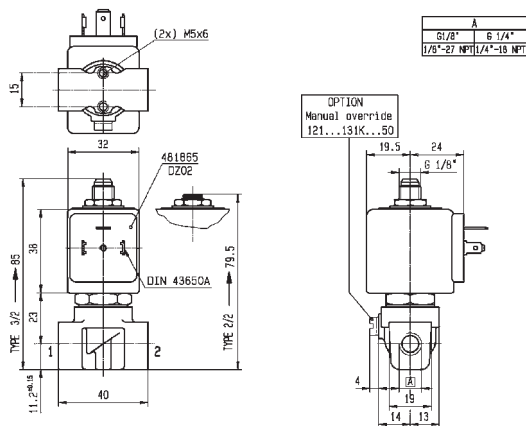
Notes:

1. With manual override

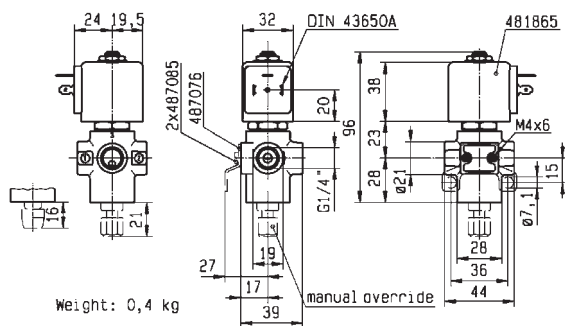
3 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.4	5	-10	-30
To	1/4"	3	4.5	16	120	50



Drawing 3510



Drawing 3223

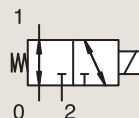
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

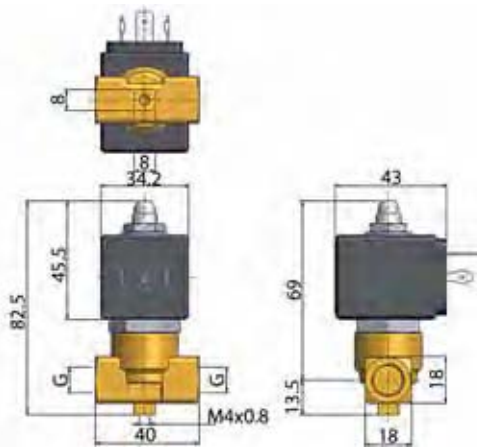
UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
													Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max(MOPD)		Min	Max								
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/8"	1.5	1.5	1.2	-	0.07	-	0	10	-	-10	140	FKM	362410J	PM139AV	ZB09	9	-	20.1/20.2	022
	1.5	1.5	1.2	-	0.07	-	0	-	10	-10	140	FKM	362410J	PM139AV	ZB12	-	12	20.1/20.2	022
1/4"	2	2	2	-	0.12	-	0	7	-	-10	140	FKM	362460J	PM139FV	ZB09	9	-	20.1/20.2	022
	2	2	2	-	0.12	-	0	-	7	-10	140	FKM	362460J	PM139FV	ZB12	-	12	20.1/20.2	022
	2.5	2.5	2.8	-	0.17	-	0	4	-	-10	140	FKM	362470J	PM139GV	ZB09	9	-	20.1/20.2	022
	2.5	2.5	2.8	-	0.17	-	0	-	4	-10	140	FKM	362470J	PM139GV	ZB12	-	12	20.1/20.2	022
	3.5	2.5	5	-	0.3	-	0	1	-	-10	140	FKM	362475J	PM139LV	ZB09	9	-	20.1/20.2	022
	3.5	2.5	5	-	0.3	-	0	-	1	-10	140	FKM	362475J	PM139LV	ZB12	-	12	20.1/20.2	022



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.2	1	-10	-10
To	1/4"	3.5	5	10	140	50



Drawing 022

3/2

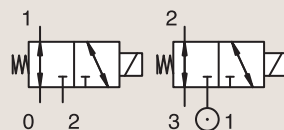
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

DIRECT OPERATED

BRASS

PIPE MOUNTING

UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C									
1/8"	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K14	2995	481865		8	9	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K14	4270	481000		8	8	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K16	2995	481865		8	9	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K16	4270	481000		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K13	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K13	4270	481000		8	8	2.1	3510
1/4"	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	100	FKM	E133K05	2995	481865		8	9	2.1	3510
	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	120	FKM	E133K05	4270	481000		8	8	2.1	3510
	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	120	FKM	E133K05	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	75	PUR	I33K0497	2995	482740		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	3	3	-20	75	PUR	I33K0497	-	495900		2.5	2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	75	PUR	I33K0497	-	495910	*	-	0.3 to 3	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	75	PUR	I33K0497	2995	496125		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K04	2995	481865		8	9	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K04	4270	481000		8	8	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K04	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K0450 ₁	2995	481865		8	9	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K0450 ₁	4270	481000		8	8	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	I33T23	2995	481865		8	9	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	I33T23	4270	481000		8	8	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	I33T2301 ₁	2995	481865		8	9	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	I33T2301 ₁	4270	481000		8	8	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K06	2995	481865		8	9	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K06	4270	481000		8	8	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K06	4270	486265		14	14	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K0650 ₁	2995	481865		8	9	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K0650 ₁	4270	481000		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K03	2995	481865		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K03	4270	481000		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K03	4270	486265		14	14	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K0350 ₁	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K0350 ₁	4270	481000		8	8	2.1	3510
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	I33T21	2995	481865		8	9	2.1	3223
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	I33T21	4270	481000		8	8	2.1	3223

Notes:

1. With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	0.8	0.3	2	-20	-20
To	1/4"	3	4.5	30	120	50

[illegible]

Technical drawing of the 487015 manual override valve. The drawing includes three views: a front view on the left, a side view in the middle, and a top view on the right. Dimensions are provided in millimeters. Key features include a 1/4 inch G1/4 inch port, a 2x487085 valve assembly, and a 481865 handle. The weight is specified as 0.4 kg.



Parker

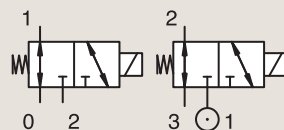
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max									
	mm		Kv		KV		bar	AC bar	DC bar	°C	°C								
1/4"	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T2101 ₁	2995	481865	8	9	2.1	3223
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T2101 ₁	4270	481000	8	8	2.1	3223

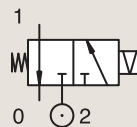
Notes:

1. With manual override

BRASS

PIPE MOUNTING

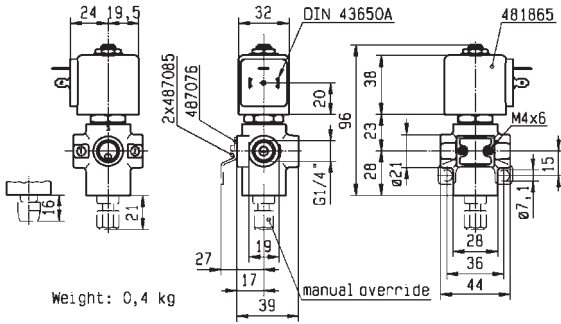
CONTROL BY ELECTRIC IMPULSE



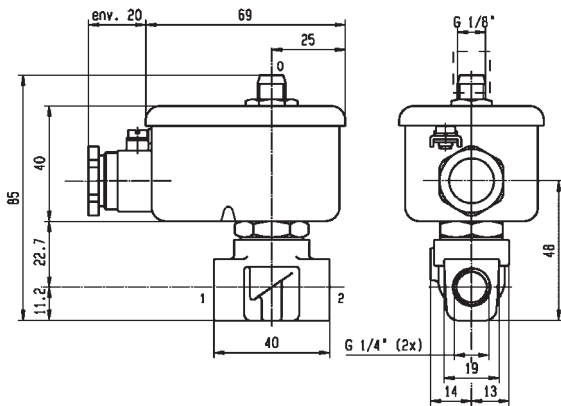
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max									
	mm		Kv		KV		bar	AC bar	DC bar	°C	°C								
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	-	16	-10	100	FKM	135K04	4269	485400	-	13	4.0	8104



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	2	-10	-10
To	1/4"	3	4.5	16	100	50



Drawing 3223



Drawing 8104

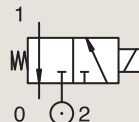
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



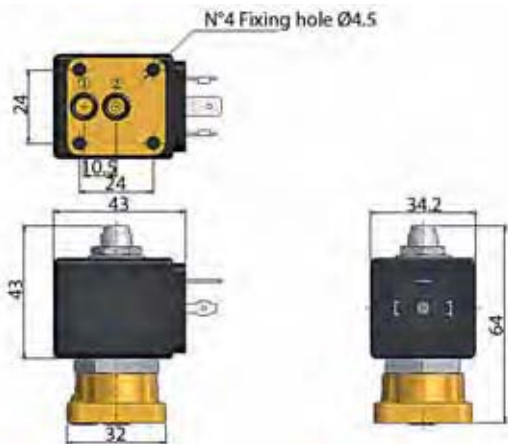
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
SB	1.3	2.5	1	-	0.06	-	0	20	10	-30	140	Ruby	360490J ₁	PM128GR	ZB09	9	-	20.1/20.2	009
	1.3	2.5	1	-	0.06	-	0	20	10	-30	140	Ruby	360480J ₁	PM128IR	YB09	9	-	20.1/20.2	010
	1.3	2.5	1	-	0.06	-	0	20	10	-30	140	Ruby	360480J ₁	PM128IR	ZB09	9	-	20.1/20.2	010
	1.3	2.5	1	-	0.06	-	0	20	10	-10	140	FKM	360506 ₁	PM128ISV	ZB09	9	-	20.1/20.2	010
	1.3	2.5	1	-	0.06	-	0	20	10	-10	140	FKM	360479J ₁	PM128IV	ZB09	9	-	20.1/20.2	010

Notes:

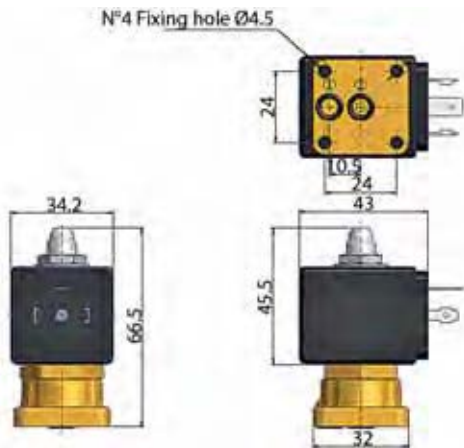
1. Maximum static pressure: 14.5 Bar (for Viton sealing, maximum static pressure: 12 Bar)



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.3	1	10	-30	-10
To	SB	1.3	1	20	140	50



Drawing 009



Drawing 010

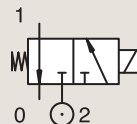
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

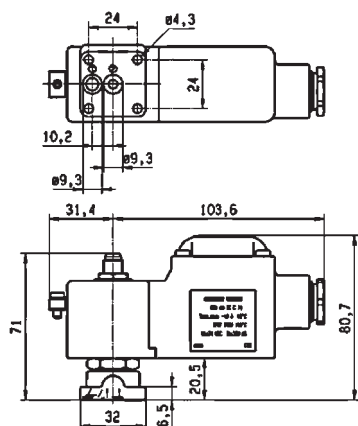
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C									
SB	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	131M75	8993	488980		2	2.5	1.1	3383
	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	131M7550	8993	488980		2	2.5	1.1	3383
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	131M74	8993	488980		2	2.5	1.1	3383
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	131M7450	8993	488980		2	2.5	1.1	3383
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131F4490	2995	483580.01	*	-	0.5 to 3	7.0/8.0	7057
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131F4490	-	488660.01	*	-	0.3 to 3	7.0/8.0	7057
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131F4490	-	495910	*	-	0.3 to 3	7.0/8.0	7057
	1.5	2	1.5	2.2	0.09	0.13	0	-	16	-10	100	FKM	131F4410	2995	481865		-	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131F4497	2995	482740		-	1.6	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	131F4497	-	495900		2.5	2	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131F4497	-	495910	*	-	0.3 to 3	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131F4497	2995	496125		-	1.6	6.0/8.0	8022

Notes:

1. With manual override

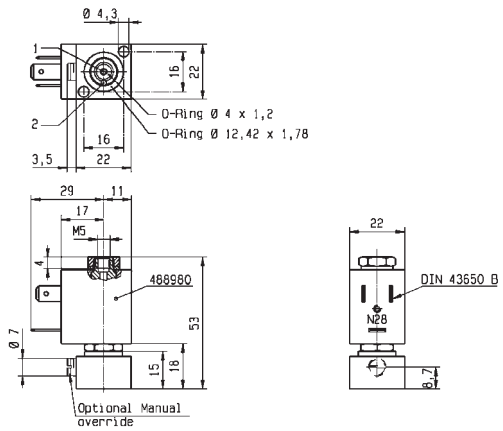


Drawing 8022

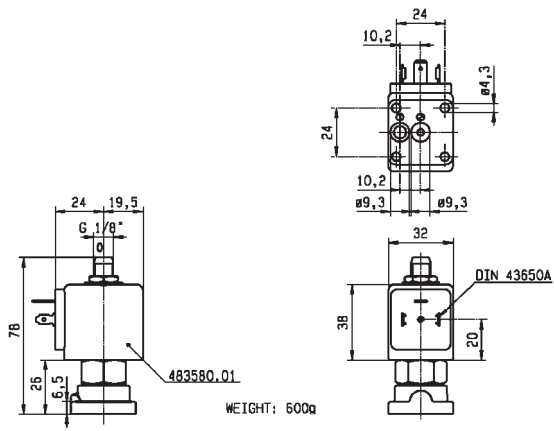
3 WAY VALVES



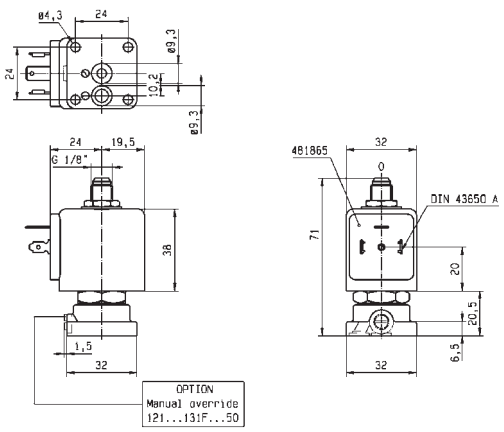
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1	0.6	7	-20	-20
To	SB	1.5	1.5	16	100	50



Drawing 3383



Drawing 7057



Drawing 3509

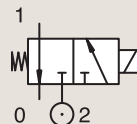
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F44	2995	481865	8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	E131F44	4270	481000	8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F4450 ₁	2995	481865	8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F4450 ₁	4270	481000	8	8	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131F46	2995	481865	8	9	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131F46	4270	481000	8	8	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131F4650 ₁	2995	481865	8	9	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131F4650 ₁	4270	481000	8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F43	2995	481865	8	9	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131F43	4270	481000	8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F4350 ₁	2995	481865	8	9	2.0	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131F4350 ₁	4270	481000	8	8	2.0	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F4350 ₁	4270	486265	14	14	2.0	3509

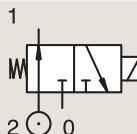
Notes:

1. With manual override

BRASS

SUB-BASE MOUNTING

NORMALLY OPEN

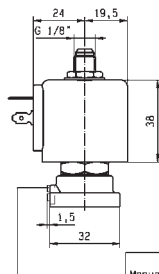
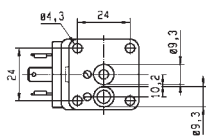


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
SB	1.5	1.5	1.4	1.4	0.084	0.084	0	15	15	-10	75	FKM	132F44	4270	481000	8	8	2.1	3509
	1.5	1.5	1.4	1.4	0.084	0.084	0	15	15	-10	75	FKM	132F44	2995	481865	8	9	2.1	3509
	2	2	1.8	1.8	0.108	0.108	0	10	10	-10	120	FKM	132F46	4270	481000	8	8	2.1	3509
	2	2	1.8	1.8	0.108	0.108	0	10	10	-10	100	FKM	132F46	2995	481865	8	9	2.1	3509
	2.5	2.5	2.2	2.2	0.132	0.132	0	7	7	-10	75	FKM	132F43	4270	481000	8	8	2.0	3509
	2.5	2.5	2.2	2.2	0.132	0.132	0	7	7	-10	75	FKM	132F43	2995	481865	8	9	2.0	3509
	2.5	2.5	2.2	2.2	0.132	0.132	0	7	7	-10	75	FKM	132F43	4270	486265	14	14	2.0	3509

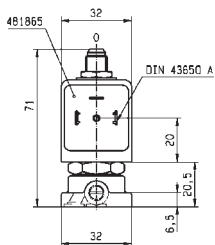
3 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.4	7	-10	-30
To	SB	2.5	3.5	15	120	50



OPTION
Manual override
121...131F...50



Drawing 3509

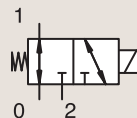
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

BRASS

SUB-BASE MOUNTING

UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133F4450 ₁	4270	481000	8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133F4450 ₁	2995	481865	8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133F44	4270	481000	8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133F44	2995	481865	8	9	2.1	3509
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	133F46	4270	481000	8	8	2.1	3509
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	133F46	2995	481865	8	9	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133F43	4270	481000	8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133F43	2995	481865	8	9	2.1	3509

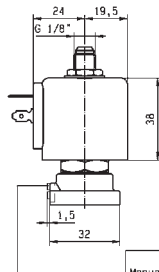
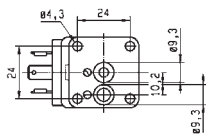
Notes:

1. With manual override

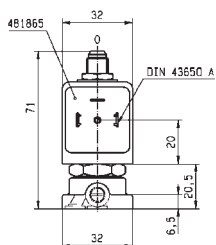
3 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.5	4	-10	-10
To	SB	2.5	3.5	10	120	50



OPTION	
Manual override	
121...131F...50	



Drawing 3509

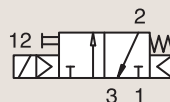
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

ANODIZED ALUMINIUM

BANJO

NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	1.2	50	0	10	10	-10	50	NBR	131B14 ₁₂	-	496131	3	3	1.2	8227
	1.2	50	0	10	10	-10	50	NBR	131B14 ₁₂	-	496482	3	3	1.2	8227
	1.2	50	0	10	10	-10	50	NBR	131B14 ₁₂	-	496637	3	3	1.2	8227

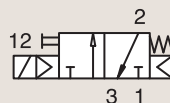
Notes:

1. Valve only compatible with air and neutral gases
2. With manual override

ANODIZED ALUMINIUM

BANJO

NORMALLY CLOSED



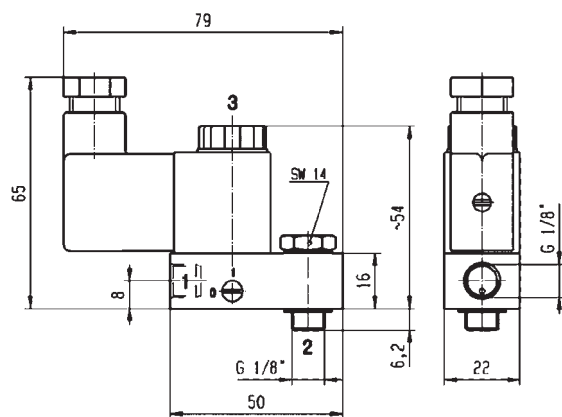
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1		Min	Max	Max (MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/4"	1.2	50	0	10	10	-10	50	NBR	131B04 ₁₂	-	496131	3	3	1.2	8226
	1.2	50	0	10	10	-10	50	NBR	131B04 ₁₂	-	496482	3	3	1.2	8226
	1.2	50	0	10	10	-10	50	NBR	131B04 ₁₂	-	496637	3	3	1.2	8226

Notes:

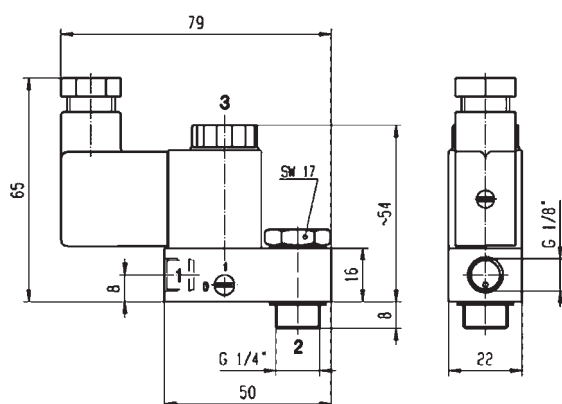
1. Valve only compatible with air and neutral gases
2. With manual override



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	50	10	-10	-10
To	1/8"	1.2	50	10	50	50



Drawing 8227



Drawing 8226

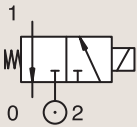
3 WAY VALVES

3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

303 STAINLESS ST.
SUB-BASE MOUNTING

NORMALLY CLOSED

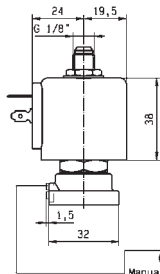
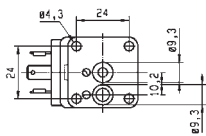


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
SB	1.5	1.5	1.5	2.2	0.09	0.13	0	15	15	-10	100	NBR	131F5406	2995	481865	8	9	2.1	3509

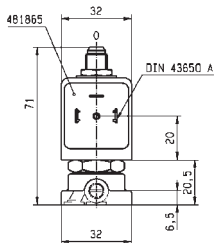
3 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.5	15	-10	-10
To	SB	1.5	1.5	15	100	50



OPTION
Manual override
121...131F...50



Drawing 3509

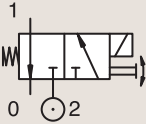
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

POM

SUB-BASE MOUNTING

NORMALLY CLOSED



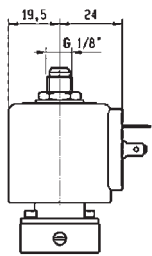
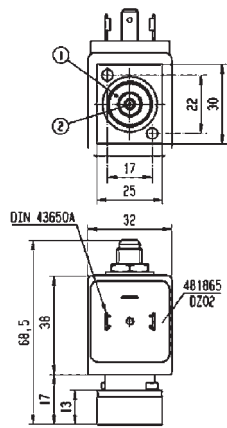
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm	Kv l/min	KV l/min	bar	AC bar	DC bar	°C	°C											
SB	2	2	2	2	0.12	0.12	0	10	10	-10	50	FKM	E131F26 ₁₂	2995	481865	8	9	2.1/3.0	3601
	2	2	2	2	0.12	0.12	0	10	10	-10	50	FKM	E131F26 ₂	2995	482730	6	7	2.1/3.0	3601

Notes:

1. 20% Switch-on - max. 2 min
2. With manual override



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2	10	-10	-10
To	SB	2	2	10	50	50



Drawing 3601

3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED



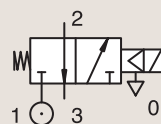
Industrial Equipment



Process

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max									
	mm		Kv		KV		bar	AC bar	DC bar	°C	°C									
1/4"	6.5	6.5	10	-	0.6	-	1	-	10	-10	55	NBR	331B7490 ₁	2995	483580.01	*	-	0.5 to 3	7.0/8.0	8270
	6.5	6.5	10	-	0.6	-	1	-	10	-10	75	NBR	331B7490 ₁	-	488660.01	*	-	0.3 to 3	7.0/8.0	8270
	6.5	6.5	10	-	0.6	-	1	-	10	-10	75	NBR	331B7490 ₁	-	495910	*	-	0.3 to 3	7.0/8.0	8270
	6.5	-	10	-	0.6	-	1	10	10	-10	75	NBR	E331B74 ₁₃	2995	481865		8	9	2.1	3240
	6.5	-	10	-	0.6	-	1	10	10	-10	75	NBR	E331B74 ₁₃	4270	485100		8	8	2.1	3240
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E331B01 ₂	4270	481000		8	8	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E331B01 ₂	2995	481865		8	9	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E331B01 ₂	-	483371		8	8	2.1	3234

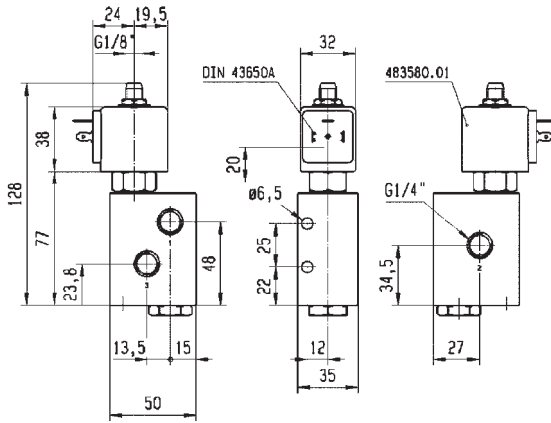
Notes:

1. Valve only compatible with air and neutral gases
2. Valve only compatible with hydraulic oil and air/neutral gases
3. With manual override

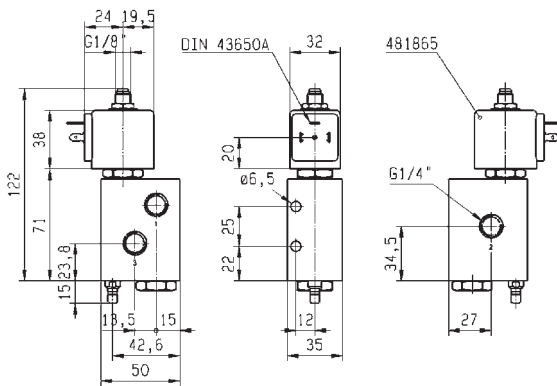
3 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6.5	10	10	-10	-10
To	1/4"	8	20	15	75	50

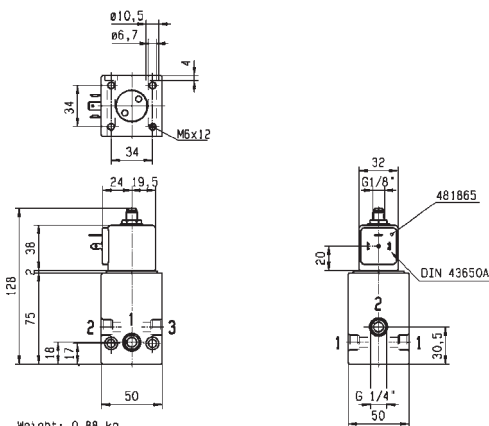


Drawing 8270



Weight: 0,51 kg

Drawing 3240



Weight: 0,88 kg

Drawing 3234



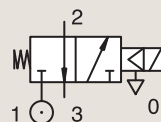
3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



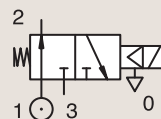
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/2"	14	14	-	-	-	-	1	15	-	-10	75	FKM	E331B21 ₁	2995	482722	10	-	2.1	3238
	14	14	-	-	-	-	1	15	15	-10	75	FKM	E331B21 ₁	-	483371	8	8	2.1	3238

Notes:

1. Valve only compatible with air and neutral gases

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Kv l/min		KV l/min		bar	AC bar	DC bar	°C	°C								
1/4"	8	8	10	10	0.6	0.6	1	40	40	-10	75	PCTFE	332B02 ₁₂	2995	481865	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	PCTFE	332B02 ₁₂	4270	481000	8	8	2.1	8114
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E332B01 ₂	2995	481865	8	9	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E332B01 ₂	4270	481000	8	8	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	FKM	E332B01 ₂	-	483371	8	8	2.1	3234

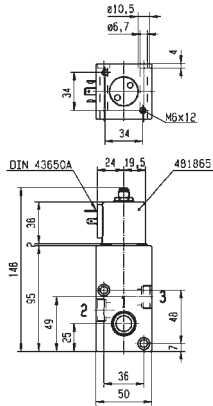
Notes:

1. Pilot seat discs in Kel-F (PCTFE); valve with pilot return pipe

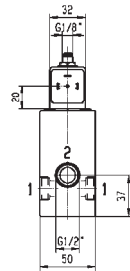
2. Valve only compatible with hydraulic oil and air/neutral gases



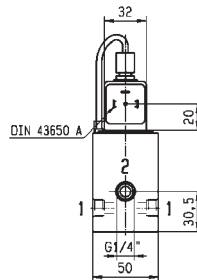
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	10	15	-10	-10
To	1/2"	14	20	40	75	50



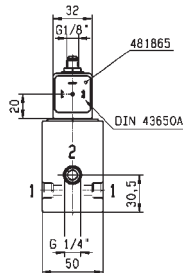
Weight: 0,98 ka



Weight: 0,88 kg



Weight: 0,88 ka



Drawing 3238

Drawing 8114

Drawing 3234

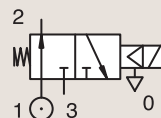


3/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY OPEN



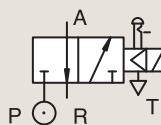
Port size	Orifice Ø		Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)		Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Qn l/min	bar	AC bar	DC bar	°C	°C								
1/2"	14	14	2500	1	15	15	-10	100	FKM	E332B21 ₁	2995	481865	8	9	2.1	3238
	14	14	2500	1	15	15	-10	100	FKM	E332B21 ₁	4270	481000	8	8	2.1	3238

Notes:

1. Valve only compatible with air and neutral gases

ANODIZED ALUMINIUM SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm		Qn l/min	bar	AC bar	DC bar	°C	°C								
SB	15		5000	0.5	10	10	-10	75	FKM	E331L21 ₁	2995	481865	8	9	2.1/3.0	3130
	15		5000	0.5	10	10	-10	75	FKM	E331L21 ₁	-	483371	8	8	2.1/3.0	3130

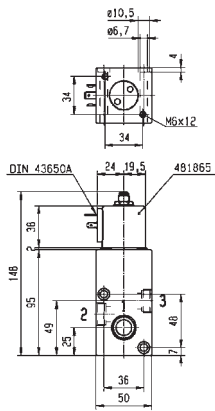
Notes:

1. With manual override

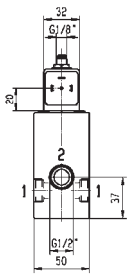
3 WAY VALVES



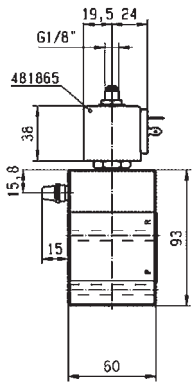
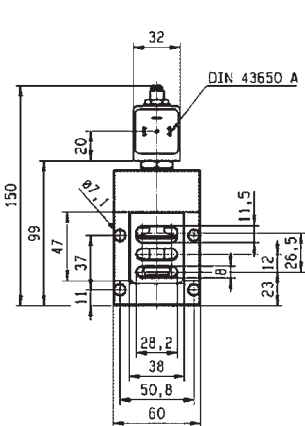
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	14	-	10	-10	-10
To	1/2"	15	5000	15	100	50



Weight: 0.98 ka



Drawing 3238



Drawing 3130

3 WAY VALVES





VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 75 BAR)



Oil



Water

3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Pilot Operated	Anodized aluminium/ Pipe mounting	Normally Closed	1/4"	8	10	40	75	-	248

3/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 75 BAR) PILOT OPERATED



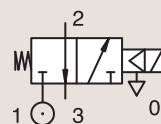
Process



Industrial Equipment

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



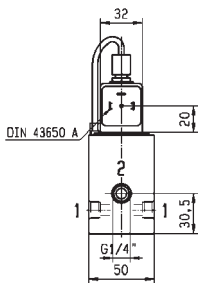
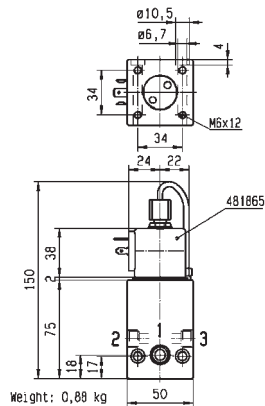
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
1/4"	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B02 ₁₂	2995	481865	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B02 ₁₂	4270	481000	8	8	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B0216 ₁₃	2995	481865	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B0216 ₁₃	4270	481000	8	8	2.1	8114

Notes:

1. Pilot seat discs in Kel-F (PCTFE); valve with pilot return pipe
2. Valve only compatible with hydraulic oil
3. Valve only compatible with air / neutral gases



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	10	40	-10	-10
To	1/4"	8	10	40	75	50



Drawing 8114

3 WAY VALVES



HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL)



Oil



Water



Air

3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	303 Stainless St./Pipe mounting	Normally Closed	1/4"	1 to 2.5	3.5	15	180	-	252
			1/4"	1 to 2.5	3.5	15	180	-	252
		Universal	1/4"	1.5 to 2.5	3.5	10	180	-	254

3/2

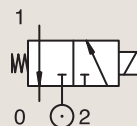
HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL) DIRECT OPERATED



Process

303 STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



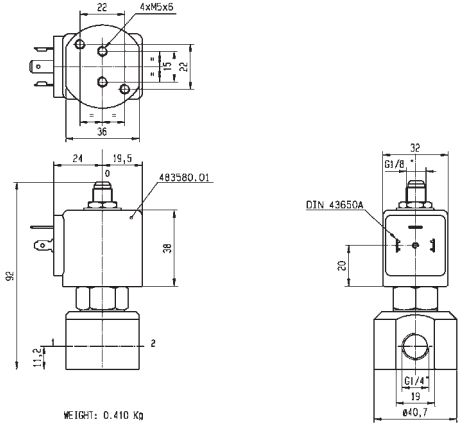
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max										
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C									
1/4"	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	55	FKM	131V5490	2995	483580.01	*	-	0.5 to 3	7.0/8.0	6740
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131V5490	-	488660.01	*	-	0.3 to 3	7.0/8.0	6740
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131V5490	-	495910	*	-	0.3 to 3	7.0/8.0	6740
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	131V5406	4270	481000		8	8	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	131V5406	2995	481865		8	9	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	130	Ruby	131V5463 ₁	4270	481000		8	8	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	100	Ruby	131V5463 ₁	2995	481865		8	9	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	180	Ruby	131V5463 ₁	4270	486265		14	14	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131V5497	2995	482740		-	1.6	3.0/6.0/8.0	8024
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	131V5497	-	495900		2.5	2	3.0/6.0/8.0	8024
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131V5497	-	495910	*	-	0.3 to 3	3.0/6.0/8.0	8024
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131V5497	2995	496125		-	1.6	3.0/6.0/8.0	8024
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	131V5306	4270	481000		8	8	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	131V5306	2995	481865		8	9	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	131V5363 ₁	4270	481000		8	8	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	131V5363 ₁	2995	481865		8	9	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	180	Ruby	131V5363 ₁	4270	486265		14	14	2.0	8116
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131V5397	2995	482740		-	1.6	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	2	2	-20	75	PUR	131V5397	-	495900		2.5	2	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131V5397	-	495910	*	-	0.3 to 3	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131V5397	2995	496125		-	1.6	6.0/8.0	8024

Notes:

1. Valve only compatible with hydraulic oil and neutral liquids



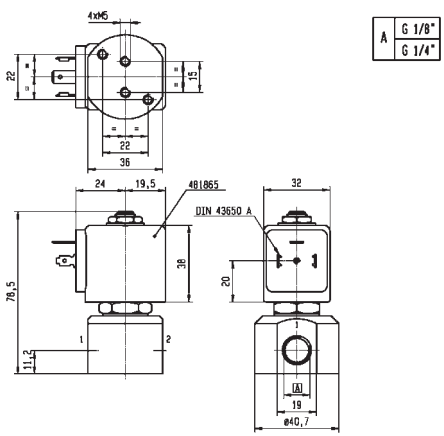
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1	0.6	2	-30	-20
To	1/4"	2.5	3.5	15	180	50



WEIGHT: 0.410 Kg



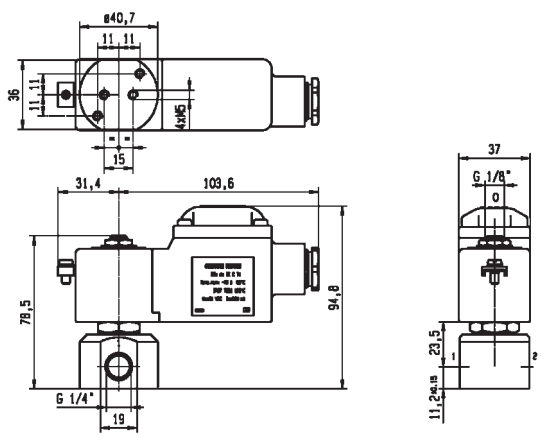
Drawing 6740



A	G 1/8"
	G 1/4"



Drawing 8116

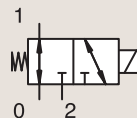


Drawing 8024

3/2

HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL) DIRECT OPERATED

303 STAINLESS ST. PIPE MOUNTING



UNIVERSAL

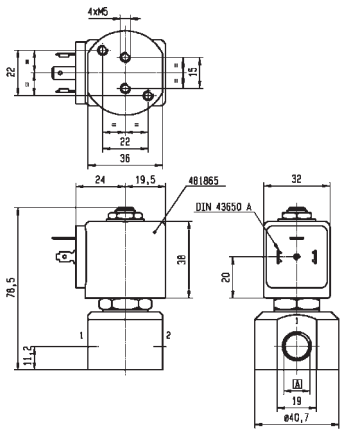
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	133V5406	4270	481000	8	8	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	133V5406	2995	481865	8	9	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	130	Ruby	133V5463 ₁	4270	481000	8	8	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	4	4	0	100	Ruby	133V5463 ₁	2995	481865	8	9	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	180	Ruby	133V5463 ₁	4270	486265	14	14	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	133V5306	4270	481000	8	8	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	133V5306	2995	481865	8	9	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	130	Ruby	133V5363 ₁	4270	481000	8	8	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	100	Ruby	133V5363 ₁	2995	481865	8	9	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	180	Ruby	133V5363 ₁	4270	486265	14	14	2.0	8116

Notes:

1. Valve only compatible with hydraulic oil and neutral liquids



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	4	-10	-10
To	1/4"	2.5	3.5	10	180	50



A	G 1/8"
	G 1/4"



Drawing 8116

3 WAY VALVES

VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®



3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Stainless St./Sub-base mounting	Normally Closed	SB	1.5 to 3	4.2	14	140	258

3/2

VALVES FOR BEVERAGE DISPENSING - LIQUIPURE® DIRECT OPERATED



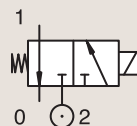
Beverage Dispensing



Medical / Instrumentation

STAINLESS ST. SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
SB	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	3019F1GRG7	-	D4	13	16	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	3019F1GRG7	-	D5	8	9	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	3019F1GRG7	-	LA	9	9	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	3019F1GRG7	-	LB-LC	13	16	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	-	-10	140	Ruby	3019F1GRG7	-	XS03	9	-	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	3019F1GVG7	-	D4	13	16	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	3019F1GVG7	-	D5	8	9	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	3019F1GVG7	-	LA	9	9	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	3019F1GVG7	-	LB-LC	13	16	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	-	-10	140	FDA FKM	3019F1GVG7	-	XS03	9	-	24.0	072
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	301XGFRTG7	-	D4	13	16	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	301XGFRTG7	-	D5	8	9	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	301XGFRTG7	-	LA	9	9	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	Ruby	301XGFRTG7	-	LB-LC	13	16	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	-	-10	140	Ruby	301XGFRTG7	-	XS03	9	-	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	301XGFVTG7	-	D4	13	16	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	301XGFVTG7	-	D5	8	9	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	301XGFVTG7	-	LA	9	9	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	14	-10	140	FDA FKM	301XGFVTG7	-	LB-LC	13	16	24.0	073
	1.5	2.5	1.3	-	0.08	-	0	14	-	-10	140	FDA FKM	301XGFVTG7	-	XS03	9	-	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	3019F1JRG7	-	D4	13	16	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	3019F1JRG7	-	D5	8	9	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	3019F1JRG7	-	LA	9	9	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	3019F1JRG7	-	LB-LC	13	16	24.0	072



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.3	10	-10	-10
To	SB	2	2.2	14	140	50



Drawing 072



Drawing 073

3/2

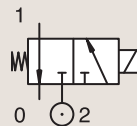
VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

STAINLESS ST.

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
SB	2	2.5	2.2	-	0.13	-	0	10	-	-10	140	Ruby	3019F1JRG7	-	XS03	9	-	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	3019F1JVG7	-	D4	13	16	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	3019F1JVG7	-	D5	8	9	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	3019F1JVG7	-	LA	9	9	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	3019F1JVG7	-	LB-LC	13	16	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	-	-10	140	FDA FKM	3019F1JVG7	-	XS03	9	-	24.0	072
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	301XGFRTJ7	-	D4	13	16	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	301XGFRTJ7	-	D5	8	9	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	301XGFRTJ7	-	LA	9	9	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	Ruby	301XGFRTJ7	-	LB-LC	13	16	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	-	-10	140	Ruby	301XGFRTJ7	-	XS03	9	-	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	301XGFVTJ7	-	D4	13	16	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	301XGFVTJ7	-	D5	8	9	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	301XGFVTJ7	-	LA	9	9	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	10	-10	140	FDA FKM	301XGFVTJ7	-	LB-LC	13	16	24.0	073
	2	2.5	2.2	-	0.13	-	0	10	-	-10	140	FDA FKM	301XGFVTJ7	-	XS03	9	-	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	D4	13	16	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	D5	8	9	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	LA	9	9	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	LB-LC	13	16	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	-	-10	140	Ruby	3019F1LRG7	-	XS03	9	-	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	3019F1LVG7	-	D4	13	16	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	3019F1LVG7	-	D5	8	9	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	3019F1LVG7	-	LA	9	9	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	3019F1LVG7	-	LB-LC	13	16	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	-	-10	140	FDA FKM	3019F1LVG7	-	XS03	9	-	24.0	072
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	301XGFRTL7	-	D4	13	16	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	301XGFRTL7	-	D5	8	9	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	301XGFRTL7	-	LA	9	9	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	Ruby	301XGFRTL7	-	LB-LC	13	16	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	-	-10	140	Ruby	301XGFRTL7	-	XS03	9	-	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	301XGFRTL7	-	D4	13	16	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	301XGFRTL7	-	D5	8	9	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	301XGFRTL7	-	LA	9	9	24.0	073
	2.5	2.5	2.8	-	0.17	-	0	6.5	6.5	-10	140	FDA FKM	301XGFRTL7	-	LB-LC	13	16	24.0	073



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2.2	6.5	-10	-10
To	SB	2.5	2.8	10	140	50



Drawing 072



Drawing 073

3/2

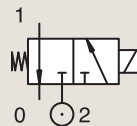
VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

STAINLESS ST.

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
													Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
SB	2.5	2.5	2.8	-	0.17	-	0	6.5	-	-10	140	FDA FKM	301XGFVTL7	-	XS03	9	-	24.0	073
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	Ruby	3019F1NRG7	-	D4	13	16	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	Ruby	3019F1NRG7	-	D5	8	9	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	Ruby	3019F1NRG7	-	LA	9	9	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	Ruby	3019F1NRG7	-	LB-LC	13	16	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	-	-10	140	Ruby	3019F1NRG7	-	XS03	9	-	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	FDA FKM	3019F1NVG7	-	D4	13	16	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	FDA FKM	3019F1NVG7	-	D5	8	9	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	FDA FKM	3019F1NVG7	-	LA	9	9	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	4	-10	140	FDA FKM	3019F1NVG7	-	LB-LC	13	16	24.0	072
	3	2.5	3.3	-	0.2	-	0	4	-	-10	140	FDA FKM	3019F1NVG7	-	XS03	9	-	24.0	072
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	Ruby	301XGFRTN7	-	D4	13	16	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	Ruby	301XGFRTN7	-	D5	8	9	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	Ruby	301XGFRTN7	-	LA	9	9	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	Ruby	301XGFRTN7	-	LB-LC	13	16	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	-	-10	140	Ruby	301XGFRTN7	-	XS03	9	-	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	FDA FKM	301XGFVTN7	-	D4	13	16	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	FDA FKM	301XGFVTN7	-	D5	8	9	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	FDA FKM	301XGFVTN7	-	LA	9	9	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	4	-10	140	FDA FKM	301XGFVTN7	-	LB-LC	13	16	24.0	073
	3	2.5	4.2	-	0.25	-	0	4	-	-10	140	FDA FKM	301XGFVTN7	-	XS03	9	-	24.0	073



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2.5	2.8	4	-10	-10
To	SB	3	4.2	6.5	140	50



Drawing 073



Drawing 072

2 & 3 WAY VALVES FOR TRANSPORTATION

2 & 3 WAY VALVES FOR TRANSPORTATION

2 WAY



Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Pilot Operated	Brass/Quick Coupling	Normally Closed	10 mm	11	12	3	90	-	266
	Brass/Barb Fitting	Normally Closed	10 mm	11	12	3	90	-	266
	Brass/Pipe Mounting	Normally Closed	12.7 mm	11	33	3	90	-	268
			15.9 mm	11	36	3	90	-	268

2/2

2 WAY

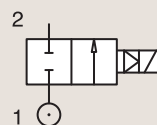
PILOT OPERATED



Transportation

BRASS

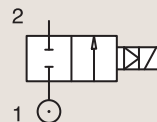
QUICK COUPLING

NORMALLY CLOSED


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Voltage	Power		Coil Group	Dwg. No.
											Min	Max(MOPD)	Valve Ref.		Housing Ref.	Coil Ref.		
		mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C									
10 mm	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1543	2168	495294	12 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1543	2169	495294	24 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1543	2168	496193	12 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1543	2169	496193	24 VDC	-	9	13.0	8242

BRASS

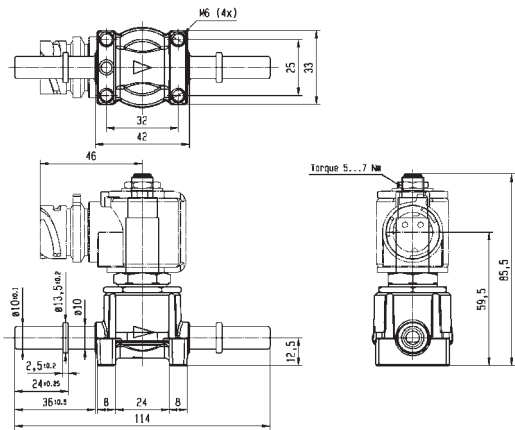
BARB FITTING

NORMALLY CLOSED


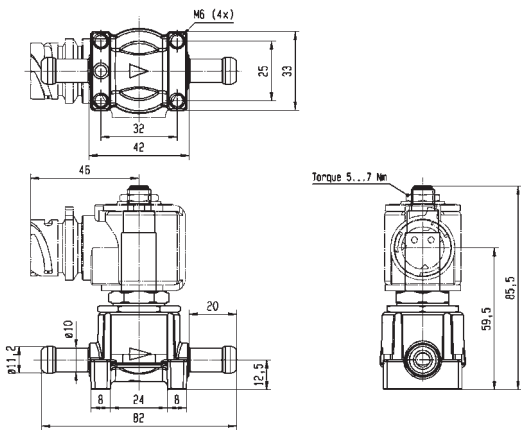
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Voltage	Power		Coil Group	Dwg. No.
											Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
		mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C									
10 mm	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1535	2168	495294	12 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1535	2169	495294	24 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1535	2168	496193	12 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	321K1535	2169	496193	24 VDC	-	9	13.0	8241



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	10 mm	11	12	3	-40	-40
To	10 mm	11	12	3	90	80



Drawing 8242



Drawing 8241

2/2

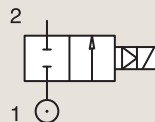
2 WAY

PILOT OPERATED

BRASS

PIPE MOUNTING

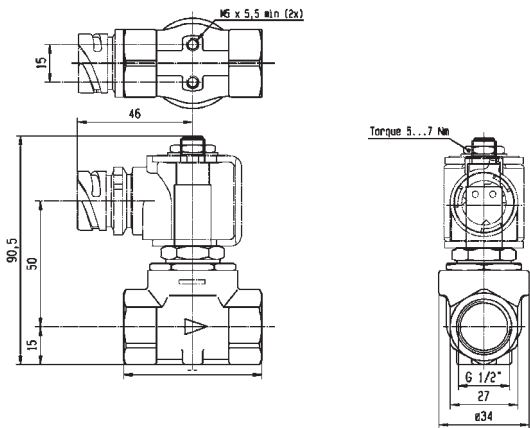
NORMALLY CLOSED



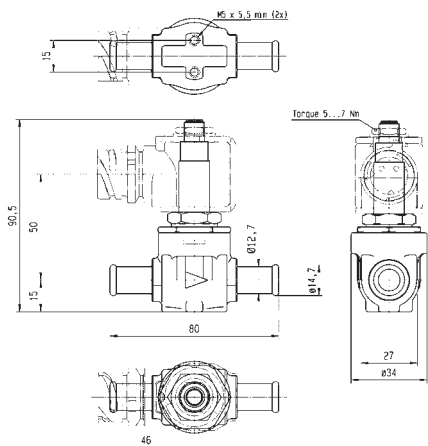
Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential Min Max(MOPD)			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Voltage	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
1/2" BSP	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1523	2168	495294	12 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1523	2169	495294	24 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1523	2168	496193	12 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1523	2169	496193	24 VDC	-	9	13.0	8238
12.7 mm	11	33	1.98	-	0.2	-	3	-40	90	EPDM	321K1536	2168	495294	12 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	321K1536	2169	495294	24 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	321K1536	2168	496193	12 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	321K1536	2169	496193	24 VDC	-	9	13.0	8282
15.9 mm	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1537	2168	495294	12 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1537	2169	495294	24 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1537	2168	496193	12 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	321K1537	2169	496193	24 VDC	-	9	13.0	8281



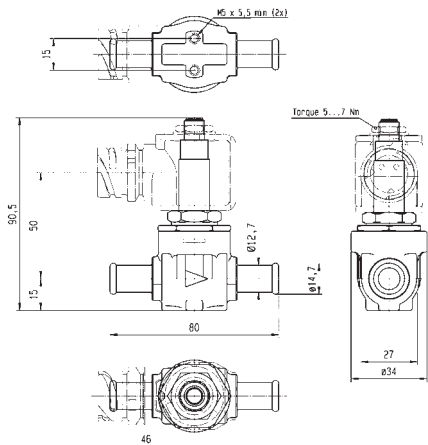
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	33	3	-40	-40
To	15.9 mm	11	36	3	90	80



Drawing 8238



Drawing 8282



Drawing 8281

2 & 3 WAY VALVES FOR TRANSPORTATION



2 & 3 WAY VALVES FOR TRANSPORTATION



3 WAY



3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated PWM	Brass/Quick Coupling	Normally Closed	1/8"	1.8	0	8	80	-	272

3/2

3 WAY

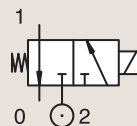
DIRECT OPERATED PWM



Transportation

BRASS

QUICK COUPLING

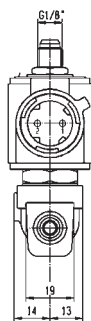
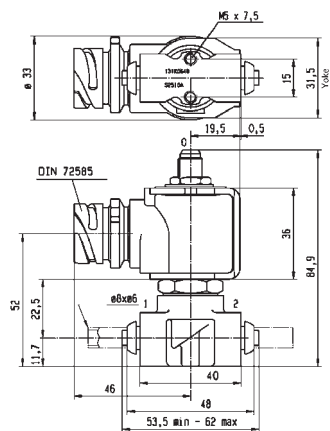
NORMALLY CLOSED


Port size	Orifice Ø		Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1	(2)		Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm		Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	131K0648 ₁	2161	495294	-	9	13.0	7872
	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	131K0648 ₁	2161	496193	-	9	13.0	7872

Notes:

1. Valve Pulse Width Modulated

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.8	110	8	-30	-30
To	1/8"	1.8	110	8	80	85



Drawing 7872

5 WAY DISTRIBUTORS FOR PNEUMATIC APPLICATIONS

5 WAY DISTRIBUTORS FOR PNEUMATIC APPLICATIONS



5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)



5/2

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Pilot Operated	Anodized aluminium/ Pipe mounting	Normally Closed	1/8"-1/4"	6	630	10	75	-	276
			1/4"	6 to 14	2500	40	75	-	276
			1/2"	14	2500	15	75	-	278
		Control by Electric Impulse	1/8"-1/4"	6	630	10	75	-	280
			1/4"	8 to 14	2500	15	75	-	280
	Anodized aluminium/ Pipe mounting/Poppet	Normally Closed	1/8"	4	400	10	75	-	282
		Dual Solenoids	1/8"	4	315	10	75	-	282
	Anodized aluminium/ Sub-base mounting	Normally Closed	1/8"	6	630	10	75	-	284
		Control by Electric Impulse	1/8"	6	630	10	75	-	284
	Anodized aluminium/ Sub-base mounting/ Poppet	Normally Closed	-	15	5000	10	75	-	286
			1/8"	15	5000	10	75	-	286
			4 mm	4	400	10	75	-	286
		Dual Solenoids	4 mm	4	315	10	75	-	288
		Control by Electric Impulse	-	15	5000	10	75	-	288
	Anodized aluminium/ CETOP/Poppet	Dual Solenoids	1/8"	6	800	10	75	-	288
	Anodized aluminium/ Pipe mounting/Poppet	Normally Closed	1/4"	8	1400	10	75	-	290
		Dual Solenoids	1/4"	8	1400	10	100	-	292
	POM/CETOP/Poppet	Normally Closed	-	6 to 8	800	10	75	-	292
			1/8"	6	800	10	75	-	294
		Control by Electric Impulse	1/8"	6	800	10	75	-	296
Externally Operated	Anodized aluminium/ Sub-base mounting	Normally Closed	1/8"	7	800	10	75	-	298

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED



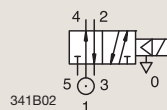
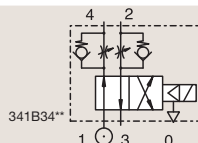
Process



Industrial Equipment

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
									Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	1	Qn l/min	Min bar	Max (MOPD) AC bar	DC bar	Min °C	Max °C									
1/8" 1/4"	6	630	1	10	10	-10	75	FKM	341B34 ₂	4270	481000		8	8	2.0	3286
	6	630	1	10	10	-10	75	FKM	341B34 ₂	2995	481865		8	9	2.0	3286
	6	630	1	10	10	-10	75	FKM	341B34 ₂	4270	486265		14	14	2.0	3286
	6	630	1	10	10	-10	75	FKM	341B3403	4270	481000		8	8	2.1	3286
	6	630	1	10	10	-10	75	FKM	341B3403	2995	481865		8	9	2.1	3286
	6	560	1	-	10	-10	55	NBR	341B3490	2995	483580.01	*	-	0.5 to 3	7.0/8.0	3561
	6	560	1	-	10	-10	75	NBR	341B3490	-	488660.01	*	-	0.3 to 3	7.0/8.0	3561
	6	560	1	-	10	-10	75	NBR	341B3490	-	495910	*	-	0.3 to 3	7.0/8.0	3561
1/4"	6	630	1	10	10	-25	75	PUR	341B3440	4270	481000		8	8	2.1	3286
	6	630	1	10	10	-25	75	PUR	341B3440	2995	481865		8	9	2.1	3286
	8	640	1	40	40	-10	75	NBR	341B02 ₁	4270	481000		8	8	2.1	8115
	8	640	1	40	40	-10	75	NBR	341B02 ₁	2995	481865		8	9	2.1	8115

Notes:

1. Valve with pilot return pipe on exhaust port
2. With flow regulator

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	6	560	10	-25	-25
To	1/4"	8	640	40	75	50



Drawing 3286



Drawing 3561



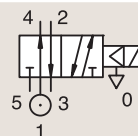
Drawing 8115

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/4"	8	1000	1	15	15	-10	75	NBR	E341B01	2995	481865	8	9	2.1	3309
	8	1000	1	15	15	-10	75	NBR	E341B01	4270	485100	8	8	2.1	3309
	14	2500	2	15	15	-10	75	NBR	E341F21	4270	481000	8	8	2.1	3310
1/2"	14	2500	1	15	15	-10	75	NBR	E341B21 ₁	2995	481865	8	9	2.1	3315
	14	2500	1	15	15	-10	75	NBR	E341B21 ₁	-	483371	8	8	2.1	3315

Notes:

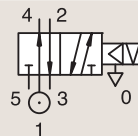
1. Valve only compatible with air and neutral gases

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"-1/4"	6	630	1	10	-	-10	75	NBR	345B34 ¹²	4269	484990	11	-	4.0	3286
	6	630	1	-	10	-10	75	NBR	345B34 ¹²	4269	485400	-	13	4.0	3286
1/4"	8	1000	1	15	-	-10	75	NBR	345B04	4269	484990	11	-	4.0	3309
	8	1000	1	-	15	-10	75	NBR	345B04	4269	485400	-	13	4.0	3309
	14	2500	1	15	-	-10	75	NBR	345B24	4269	484990	11	-	4.0	3315
	14	2500	1	-	15	-10	75	NBR	345B24	4269	485400	-	13	4.0	3315

Notes:

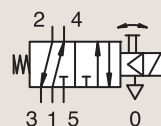
1. Valve only compatible with air and neutral gases
2. With flow regulator

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



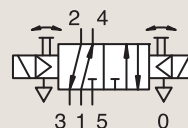
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	4	400	1	10	10	-10	75	NBR	341L9101 ₁	-	482605	4	5	1.1	3894
	4	400	1	10	10	-10	75	NBR	341L9101 ₁	-	482606	2	2.5	1.1	3894
	4	400	1	10	10	-10	75	NBR	341L9101 ₁	8993	488980	2	2.5	1.1	3894
	4	400	1	10	10	-10	75	NBR	341L9101 ₁	8993	495865	2	2.5	1.1	3894

Notes:

1. With manual override

ANODIZED ALUMINIUM PIPE MOUNTING

DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	4	315	2	10	10	-10	75	NBR	347L9101 ₁	-	482605	4	5	1.1	3896
	4	315	2	10	10	-10	75	NBR	347L9101 ₁	-	482606	2	2.5	1.1	3896
	4	315	2	10	10	-10	75	NBR	347L9101 ₁	8993	488980	2	2.5	1.1	3896
	4	315	2	10	10	-10	75	NBR	347L9101 ₁	8993	495865	2	2.5	1.1	3896

Notes:

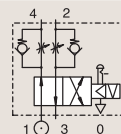
1. With manual override

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM SUB-BASE MOUNTING

NORMALLY CLOSED



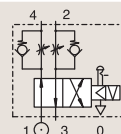
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	6	630	1	10	10	-10	75	FKM	341F34 ₁	2995	481865	8	9	2.1	3287
	6	630	1	10	10	-10	75	FKM	341F34 ₁	4270	481000	8	8	2.1	3287
	6	630	1	10	10	-10	75	FKM	341F3403	2995	481865	8	9	2.1	3287
	6	630	1	10	10	-10	75	FKM	341F3403	4270	481000	8	8	2.1	3287
	6	630	1	10	10	-25	75	NBR	341F3440	2995	481865	8	9	2.1	3287

Notes:

1. With flow regulator

ANODIZED ALUMINIUM SUB-BASE MOUNTING

CONTROL BY ELECTRIC IMPULSE



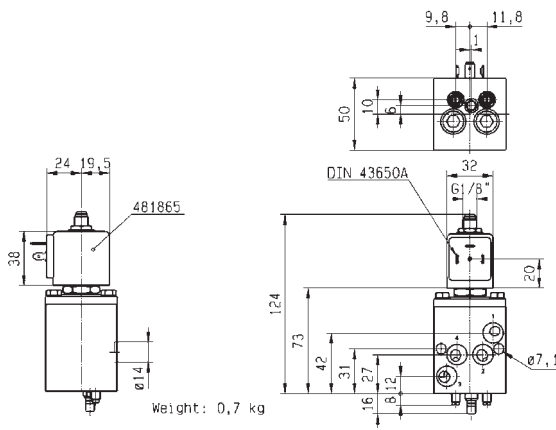
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	6	630	1	10	-	-10	75	FKM	345F34 ₁	4269	484990	11	-	4.0	3287
	6	630	1	-	10	-10	75	FKM	345F34 ₁	4269	485400	-	13	4.0	3287

Notes:

1. With flow regulator



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	6	630	10	-25	-25
To	SB	6	630	10	75	50



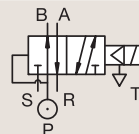
Drawing 3287

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM SUB-BASE MOUNTING ISO

NORMALLY CLOSED



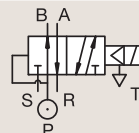
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			IS	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
SB	15	5000	0.5	10	10	-10	75	FKM	E341L21 ₁	2995	481865		8	9	2.1/3.0	3299
	15	5000	0.5	10	10	-10	75	FKM	E341L21 ₁	-	495905		8	8	2.1/3.0	3299
	15	5000	0.5	-	10	-10	55	NBR	341L2190 ₁	2995	483580.01	*	-	0.5 to 3	7.0/8.0	8271
	15	5000	0.5	-	10	-10	75	NBR	341L2190 ₁	-	488660.01	*	-	0.3 to 3	7.0/8.0	8271
	15	5000	0.5	-	10	-10	75	NBR	341L2190 ₁	-	495910	*	-	0.3 to 3	7.0/8.0	8271

Notes:

1. Valve with manual override

ANODIZED ALUMINIUM SUB-BASE MOUNTING

NORMALLY CLOSED



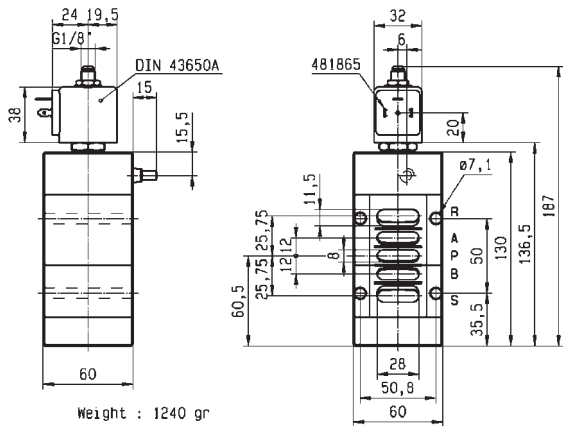
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	4	400	1	10	10	-10	75	NBR	341L9201 ₁	-	482605	-	5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 ₁	-	482606	2	2.5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 ₁	8993	488980	2	2.5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 ₁	8993	495865	2	2.5	1.1	3895

Notes:

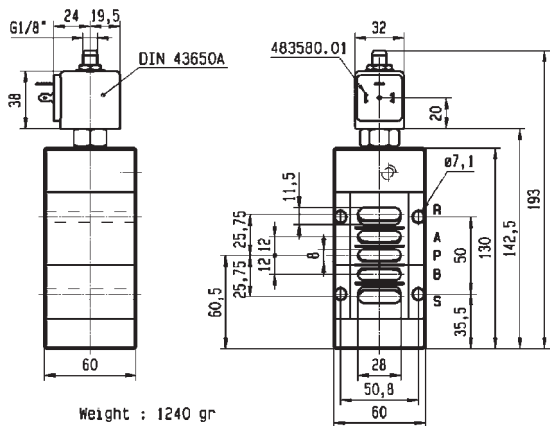
1. Valve with manual override



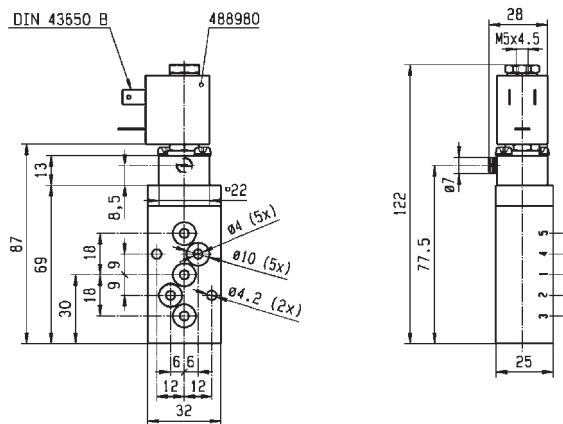
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	4	400	10	-10	-10
To	SB	15	5000	10	75	50



Drawing 3299



Drawing 8271



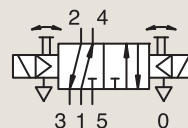
Drawing 3895

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM SUB-BASE MOUNTING

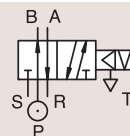
DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
	mm	Qn l/min	bar	AC bar	DC bar	°C							°C		
SB	4	315	2	10	10	-10	75	NBR	347L9201	-	482605	-	5	1.1	3897
	4	315	2	10	10	-10	75	NBR	347L9201	-	482606	2	2.5	1.1	3897
	4	315	2	10	10	-10	75	NBR	347L9201	8993	488980	2	2.5	1.1	3897
	4	315	2	10	10	-10	75	NBR	347L9201	8993	495865	2	2.5	1.1	3897

ANODIZED ALUMINIUM SUB-BASE MOUNTING

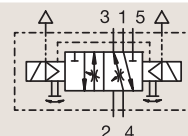
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
SB	15	5000	0.5	10	-	-10	75	NBR	345L21	4269	484990	11	-	4.0	3299
	15	5000	0.5	-	10	-10	75	NBR	345L21	4269	485400	-	13	4.0	3299

ANODIZED ALUMINIUM CETOP

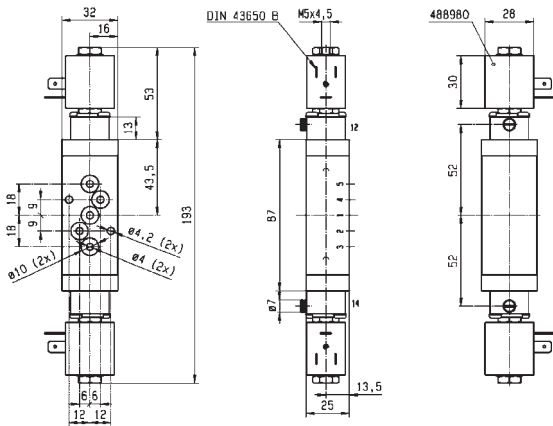
DUAL SOLENOIDS



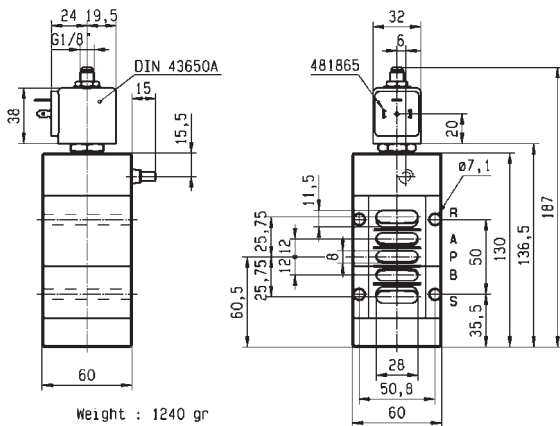
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
				AC bar	DC bar										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/8"	6	800	1	10	10	-10	75	NBR	347L04	8993	488980	2	2.5	1.1	3694



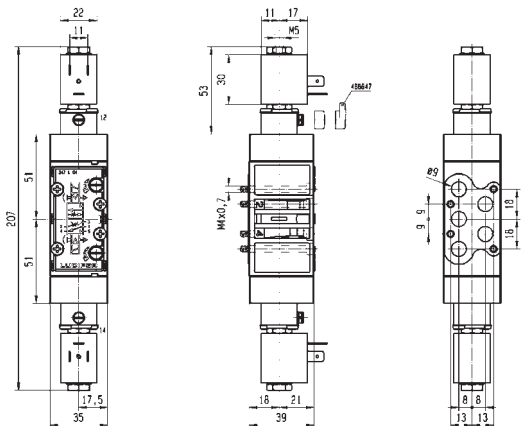
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	4	315	10	-10	-10
To	4 mm	15	5000	10	75	50



Drawing 3897



Drawing 3299



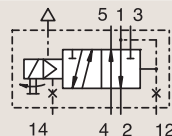
Drawing 3694

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

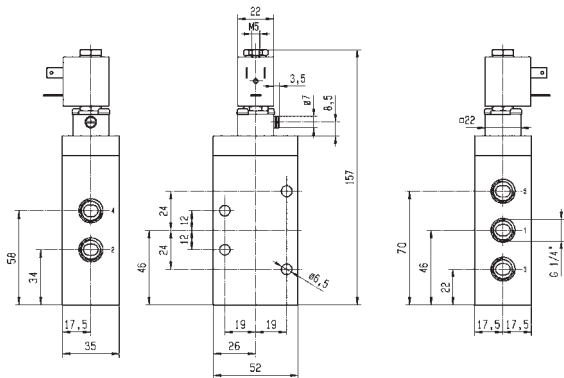
NORMALLY CLOSED



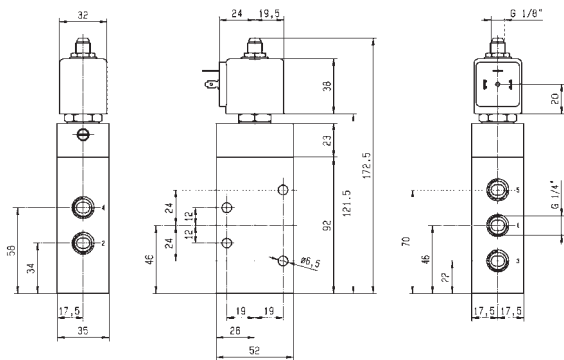
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/4"	8	1400	1	10	10	-10	75	NBR	341L11	-	482605	4	5	1.1	3434
	8	1400	1	10	10	-10	75	NBR	341L11	-	482606	2	2.5	1.1	3434
	8	1400	1	10	10	-10	75	NBR	341L11	8993	488980	2	2.5	1.1	3434
	8	1400	1	10	10	-10	75	NBR	341L11	8993	495865	2	2.5	1.1	3434
	8	1400	1	10	10	-10	75	NBR	E341L1130	2995	481865	8	9	2.1/3.0	3539
	8	1400	1	10	10	-10	75	NBR	E341L1130	-	483371	8	8	2.1/3.0	3539
1/4" NPT	8	1400	1	10	10	-10	75	FKM	U341L1130	2995	481865	8	9	2.1	8297
	8	1400	1	10	10	-10	75	FKM	U341L1130	2995	491514	11	12	2.1	8297



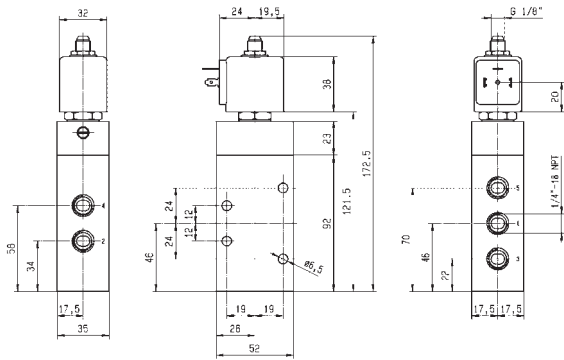
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	1400	10	-10	-10
To	1/4"	8	1400	10	75	50



Drawing 3434



Drawing 3539



Drawing 8297

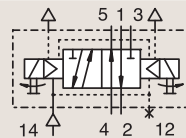


5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

DUAL SOLENOIDS



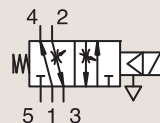
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
1/4"	8	1400	1	10	10	-10	75	NBR	347L11 ₁	-	482605	4	5	1.1	3461
	8	1400	1	10	10	-10	75	NBR	347L11 ₁	-	482606	2	2.5	1.1	3461
	8	1400	1	10	10	-10	75	NBR	347L11 ₁	8993	488980	2	2.5	1.1	3461
	8	1400	1	10	10	-10	75	NBR	347L11 ₁	8993	495865	2	2.5	1.1	3461
	8	1400	2	10	10	-10	100	FKM	E347L1130 ₁	2995	481865	8	9	2.1/3.0	3541
	8	1400	2	10	10	-10	100	FKM	E347L1130 ₁	4270	481000	8	8	2.1/3.0	3541

Notes:

1. With manual override

POM CETOP

NORMALLY CLOSED



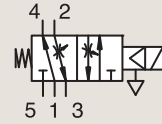
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
-	6	800	1	10	10	-10	75	FKM	E341L02	2995	481865	8	9	2.1/3.0	3513
	6	800	1	10	10	-10	75	FKM	E341L02	4270	481000	8	8	2.1/3.0	3513

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

POM
CETOP

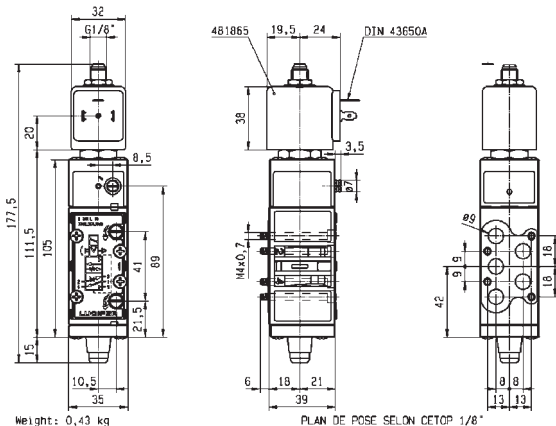
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C								
-	8	800	1	10	10	-10	75	FKM	341L04 ₁	-	482605	4	5	1.1	3437
	8	800	1	10	10	-10	75	FKM	341L04 ₁	-	482606	2	2.5	1.1	3437
	8	800	1	10	10	-10	75	FKM	341L04 ₁	8993	488980	2	2.5	1.1	3437
	8	800	1	10	10	-10	75	FKM	341L04 ₁	8993	495865	2	2.5	1.1	3437
1/8"	6	800	1	-	10	-10	75	NBR	341L0197	2995	482740	-	1.6	6.0/8.0	8021
	6	800	1	10	10	-10	75	NBR	341L0197	-	495900	2.5	2	6.0/8.0	8021
	6	800	1	-	10	-10	75	NBR	341L0197	-	495910	-	0.3 to 3	6.0/8.0	8021
	6	800	1	-	10	-10	75	NBR	341L0197	2995	496125	-	1.6	6.0/8.0	8021
	6	800	1	10	10	-10	75	NBR	341L05 ₂	-	482605	4	5	1.1	3430
	6	800	1	10	10	-10	75	NBR	341L05 ₂	-	482606	2	2.5	1.1	3430
	6	800	1	10	10	-10	75	NBR	341L05 ₂	8993	488980	2	2.5	1.1	3430
	6	800	1	10	10	-10	75	NBR	341L05 ₂	8993	495865	2	2.5	1.1	3430
	6	800	1	10	-	-10	75	FKM	E341L01 ₁	2995	482722	10	-	2.1/3.0	3255
	6	800	1	10	10	-10	75	FKM	E341L01 ₁	-	483371	8	8	2.1/3.0	3255
	6	800	1	10	10	-10	75	FKM	E341L01 ₁	2995.33	491514	11	12	2.1/3.0	3255

Notes:

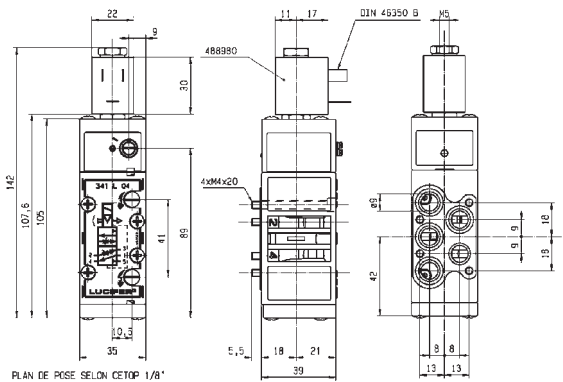
1. Manual override and flow regulating screws standard
2. With manual override



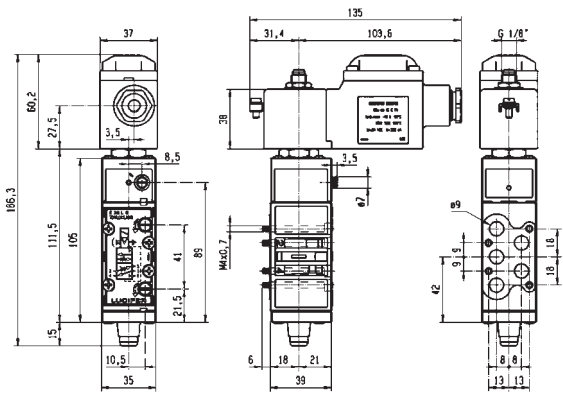
Drawing 3255



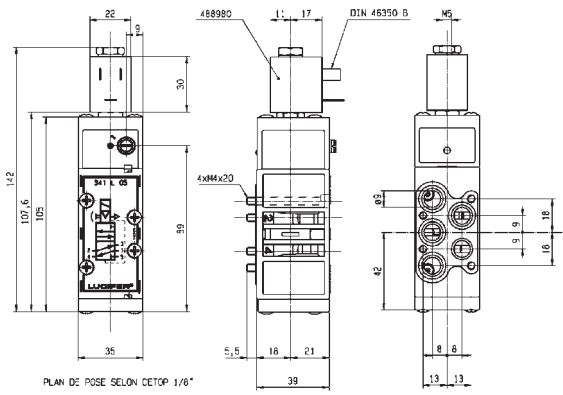
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	6	800	10	-10	-20
To	1/8"	8	800	10	75	50



Drawing 3437



Drawing 8021

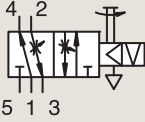


Drawing 3430

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) PILOT OPERATED

POM
CETOP



CONTROL BY ELECTRIC IMPULSE

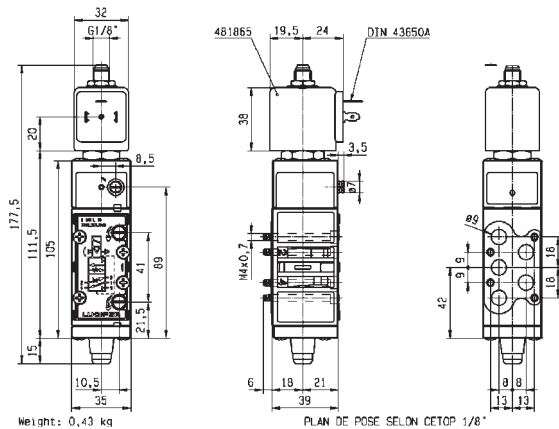
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max			Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C									
1/8"	6	800	1	-	10	-10	75	FKM	345L01 ₁	4269	485400	-		13	4.0	3255

Notes:

1. Manual override and flow regulating screws standard



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	6	800	10	-10	-10
To	1/8"	6	800	10	75	50



Weight: 0,43 kg



Drawing 3255

5/2

5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING) EXTERNALLY OPERATED



Process

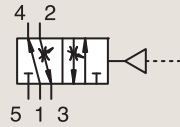


Industrial Equipment

POM

SUB-BASE MOUNTING

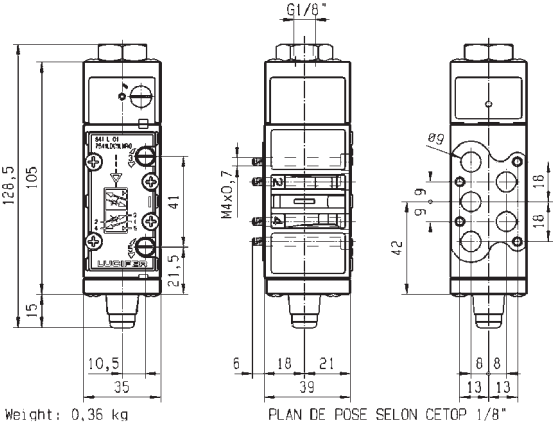
NORMALLY CLOSED



Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	7	800	1	10	10	-10	75	FKM/NBR	541L01	-	-	-	-	-	3254



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	7	800	10	-10	-10
To	1/8"	7	800	10	75	50



Weight: 0,36 kg

PLAN DE POSE SELON CETOP 1/8"



Drawing 3254



3 & 5 WAY PNEUMATIC VALVES FOR
ACTUATOR CONTROL (PIPE MOUNTING)



3/2
5/2

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8"	1.2 to 1.5	70	10	75	-	302
			1/8"-1/4"	2.5	220	7	75	-	302
			1/4"	1 to 4.5	500	16	120	-	302
		Normally Open	1/4"	2.5	220	7	75	-	308
		Universal	1/4"	6	680	10	75	-	308
		Control by Electric Impulse	1/4"	2.5	220	7	100	-	310
	Brass/Sub-base mounting	Normally Closed	5 mm	2.5	180	2	75	-	312
		Universal	1/8"	2	140	7	120	-	312
	Anodized aluminium/ Pipe mounting	Universal	1/4"	6	680	10	80	-	314
Pilot Operated	Anodized aluminium/ Pipe mounting/Spool	Normally Closed	1/8"	4 to 15	600	10	80	-	316
			1/4"	7 to 8	1400	10	80	-	318
			1/2"	12	3000	10	50	-	322
		Dual Solenoids	1/8"	4	400	10	80	-	324
			1/4"	7 to 8	1400	10	80	-	326
			1/2"	12	3000	10	50	-	328
		Control by Electric Impulse	1/8"	4	600	10	80	-	328
Manual Reset	Brass/Pipe mounting	Universal	1/4"	6	680	10	65	-	330

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED



Commercial Equipment



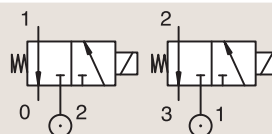
Industrial Equipment



Process

BRASS PIPE MOUNTING

NORMALLY CLOSED



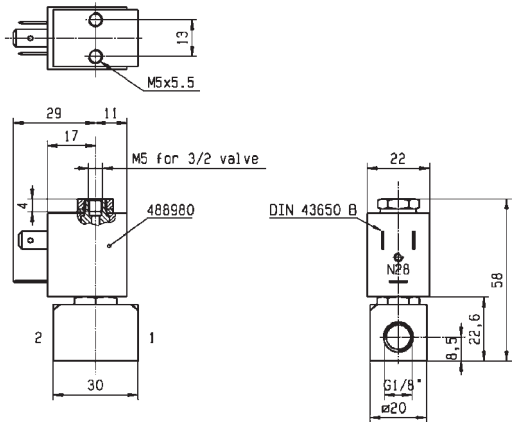
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"	1.2	50	0	10	10	-10	75	FKM	131M15	8993	488980	-	-	2	2.5	1.1	3382
	1.5	70	0	7	7	-10	75	FKM	131M14	8993	488980	-	-	2	2.5	1.1	3382
1/8"-1/4"	2.5	220	0	7	7	-40	75	PUR	E131K0358	2995	481865	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-40	75	PUR	E131K0358	4270	481000	-	-	8	8	2.1	3510
1/4"	1	36	0	-	10	-10	55	FKM	131K0490	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7058
	1	36	0	-	10	-10	75	FKM	131K0490	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7058
	1	36	0	-	10	-10	75	FKM	131K0490	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7058

Notes:

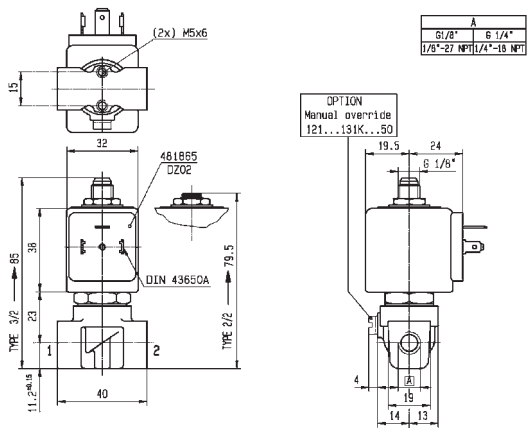
1. With manual override



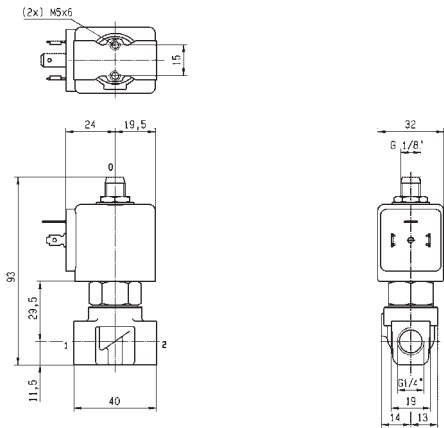
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1	36	7	-40	-40
To	1/4"	2.5	220	10	75	50



Drawing 3382



Drawing 3510



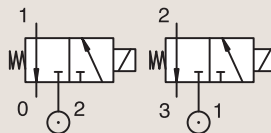
Drawing 7058

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED


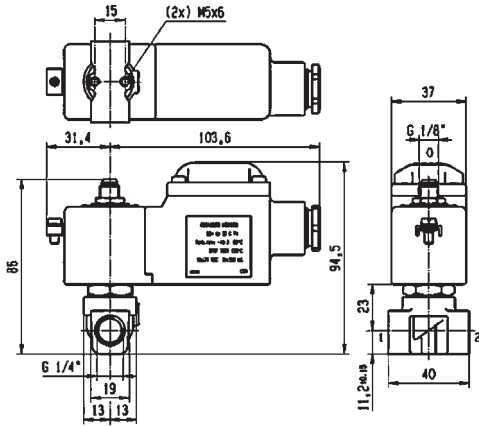
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	1.5	80	0	-	7	-20	75	PUR	131K0497	2995	482740	-	-	-	1.6	6.0/8.0	8023
	1.5	80	0	7	7	-20	75	PUR	131K0497	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8023
	1.5	80	0	-	7	-20	75	PUR	131K0497	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8023
	1.5	80	0	-	7	-20	75	PUR	131K0497	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8023
	1.5	80	0	16	16	-10	100	FKM	E131K04	2995	481865	-	-	8	9	2.0	3510
	1.5	80	0	16	16	-10	120	FKM	E131K04	4270	481000	-	-	8	8	2.0	3510
	1.5	80	0	16	16	-10	120	FKM	E131K04	4270	486265	-	-	14	14	2.0	3510
	1.5	80	0	15	15	-10	100	FKM	E131K0450	2995	481865	-	-	8	9	2.1	3510
	1.5	80	0	15	15	-10	120	FKM	E131K0450	4270	481000	-	-	8	8	2.1	3510
	2	140	0	10	10	-10	100	FKM	E131K06	2995	481865	-	-	8	9	2.0	8119
	2	140	0	10	10	-10	120	FKM	E131K06	4270	481000	-	-	8	8	2.0	8119
	2	140	0	10	10	-10	120	FKM	E131K06	4270	486265	-	-	14	14	2.0	8119
	2	140	0	10	10	-10	100	FKM	E131K0650	2995	481865	-	-	8	9	2.1	3510
	2	140	0	10	10	-10	120	FKM	E131K0650	4270	481000	-	-	8	8	2.1	3510

Notes:

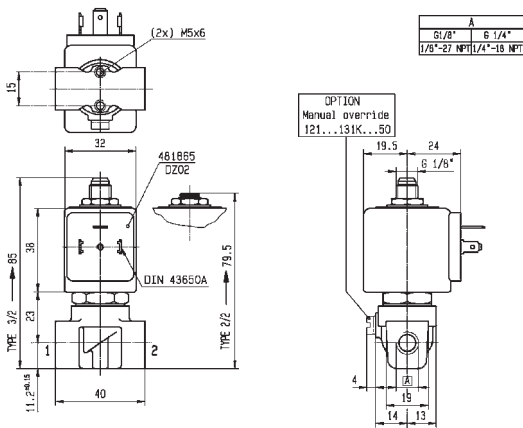
1. With manual override



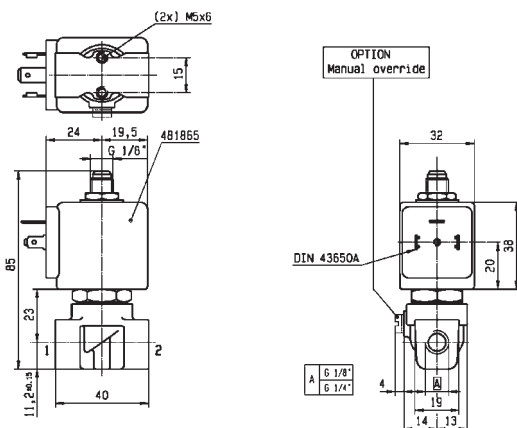
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	80	7	-20	-20
To	1/4"	2	140	16	120	50



Drawing 8023



Drawing 3510



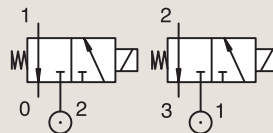
Drawing 8119

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED


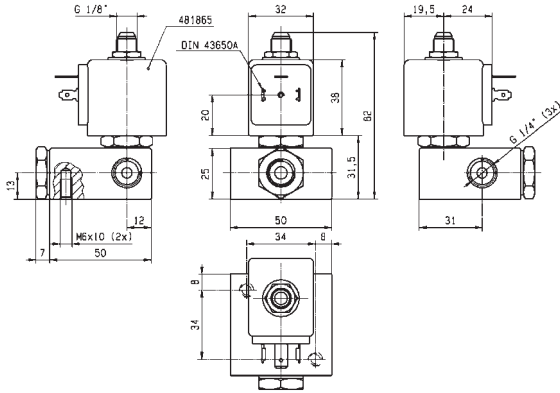
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	2.5	220	0.1	7	7	-10	75	FKM	E131E03	2995	481865	-	-	8	9	2.0	3525
	2.5	220	0.1	7	7	-10	75	FKM	E131E03	4270	481000	-	-	8	8	2.0	3525
	2.5	220	0.1	7	7	-10	75	FKM	E131E03	4270	486265	-	-	14	14	2.0	3525
	2.5	220	0	7	7	-40	75	PUR	E131K0308	2995	481865	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-40	75	PUR	E131K0308	4270	481000	-	-	8	8	2.1	3510
	2.5	220	0	7	7	-10	100	FKM	E131K0350 ₁	2995	481865	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-10	120	FKM	E131K0350 ₁	4270	481000	-	-	8	8	2.1	3510
	4.5	500	0	2	2	-10	75	FKM	131T2101 ₁	2995	481865	-	-	8	9	2.1	3223
	4.5	500	0	2	2	-10	75	FKM	131T2101 ₁	4270	481000	-	-	8	8	2.1	3223

Notes:

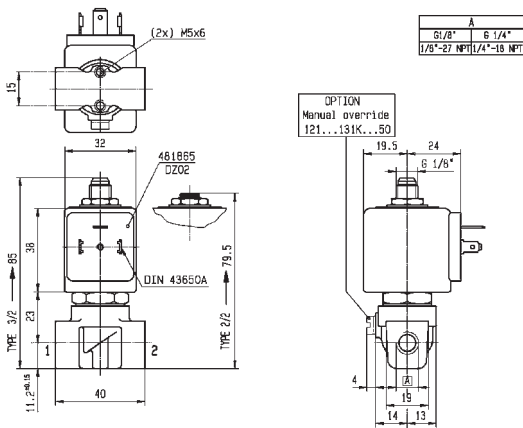
1. With manual override



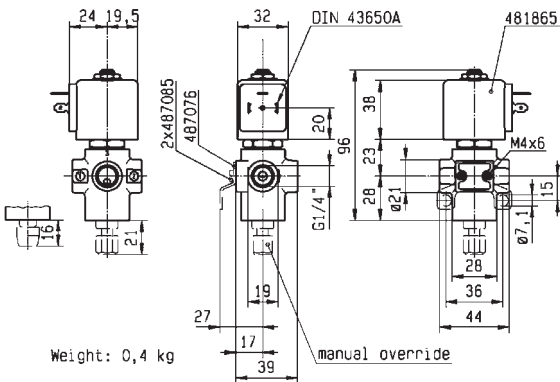
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	220	2	-40	-40
To	1/4"	4.5	500	7	120	50



Drawing 3525



Drawing 3510



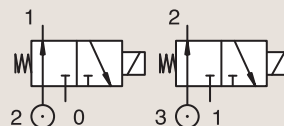
Drawing 3223

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

BRASS

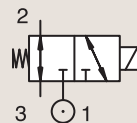
PIPE MOUNTING

NORMALLY OPEN


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	2.5	220	0	7	3.5	-10	75	FKM	132T29	2995	481865	-	-	8	9	2.0	3223
	2.5	220	0	7	3.5	-10	75	FKM	132T29	4270	481000	-	-	8	8	2.0	3223
	2.5	220	0	-	7	-10	75	FKM	132T29	4270	486265	-	-	-	14	2.0	3223

BRASS

PIPE MOUNTING

UNIVERSAL


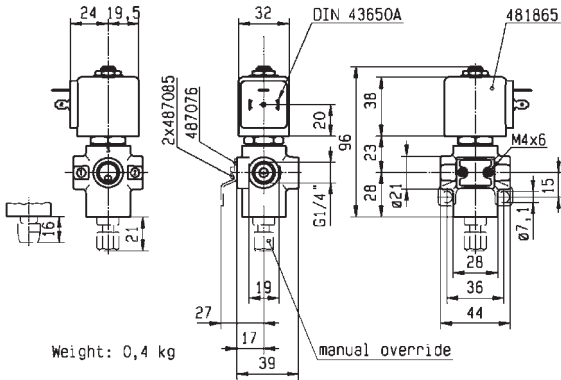
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4" NPT	6	680	0	10	10	-25	65	NBR	U133X0111	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1/10.2	7422
	6	680	0	-	10	-25	75	NBR	U133X0111	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7422
	6	680	0	10	10	-25	65	NBR	U133X01111D ₁	-	483270	1-21	Ex db IIC T4 to T6	8	8	11.0	7438

Notes:

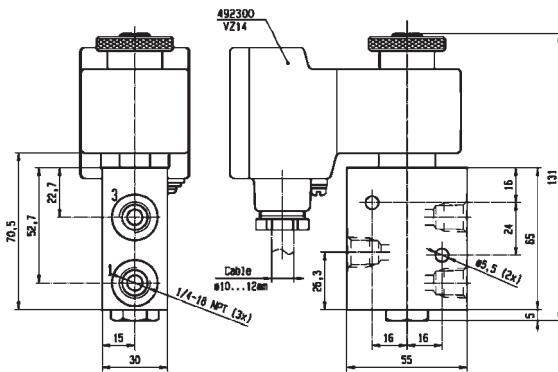
1. DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)



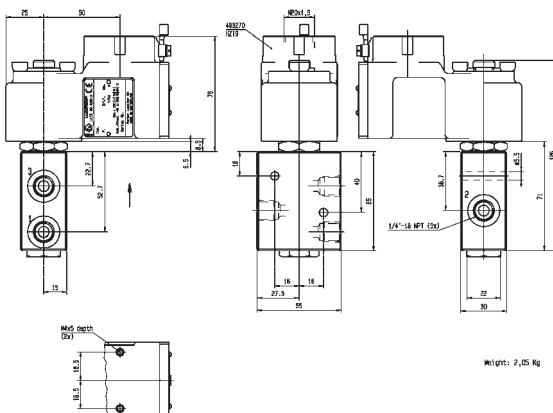
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	220	3.5	-25	-25
To	1/4"	6	680	10	75	50



Drawing 3223



Drawing 7422



Drawing 7438

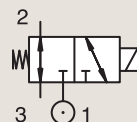
3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

BRASS

PIPE MOUNTING

UNIVERSAL



Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential		Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPT	6	680	0	-	10	-25 65	NBR	U133X0131 ₁	-	492310	1-21	Ex eb mb II T3 to T6	-	6	10.1/10.2	8280
	6	680	0	-	10	-25 65	NBR	U133X0131 ₁	-	496700	1-21	Ex db mb IIC T4 to T6	-	6	10.1/10.2	8280

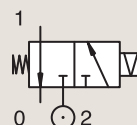
Notes:

1. DC voltage only (or coil with rectifier). Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)

BRASS

PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE



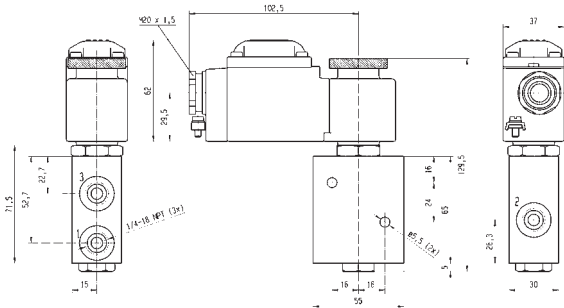
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential		Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" BSP	2.5	220	0	-	7	-10 100	FKM	135K03	4269	485400	-	-	-	13	4.0	3510



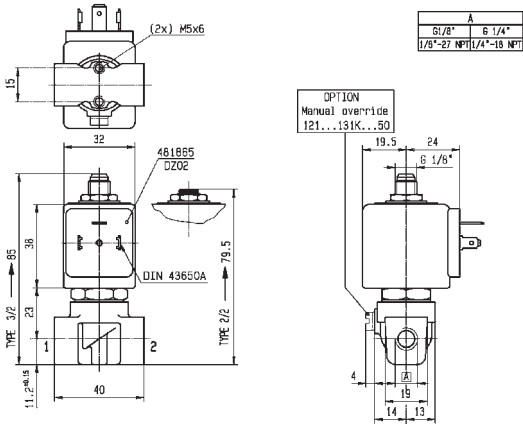
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	220	7	-25	-25
To	1/4"	6	680	10	100	50



Drawing 8280



Drawing 3510

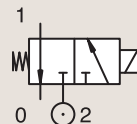


3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

BRASS

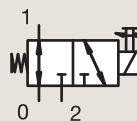
SUB-BASE MOUNTING

NORMALLY CLOSED


Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
SB	2.5	180	0	-	2	-20	75	PUR	131F4397	2995	482740	-	-	-	1.6	6.0/8.0	8022
	2.5	180	0	2	2	-20	75	PUR	131F4397	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8022
	2.5	180	0	-	2	-20	75	PUR	131F4397	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8022
	2.5	180	0	-	2	-20	75	PUR	131F4397	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8022

BRASS

SUB-BASE MOUNTING

UNIVERSAL


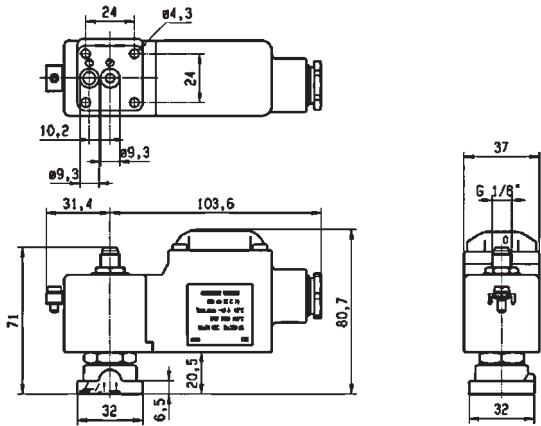
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
SB	2	140	0	7	7	-10	100	FKM	133F4650 ₁	2995	481865	-	-	8	9	2.1	3509
	2	140	0	7	7	-10	120	FKM	133F4650 ₁	4270	481000	-	-	8	8	2.1	3509

Notes:

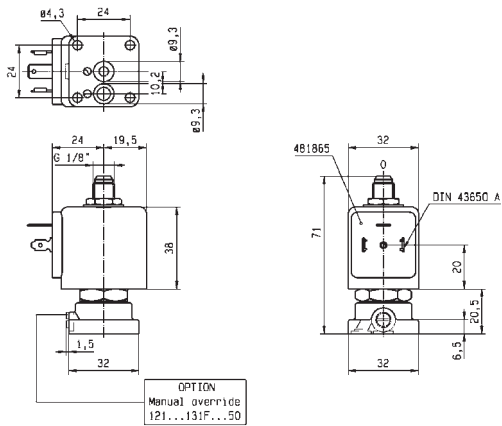
1. With manual override



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2	140	2	-20	-20
To	5 mm	2.5	180	7	120	50



Drawing 8022



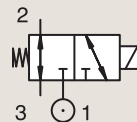
Drawing 3509



3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) DIRECT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING



UNIVERSAL

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	6	680	0	10	10	-25	75	NBR	133X01	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1/10.2	6960
	6	680	0	-	10	-25	65	NBR	133X01	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	6960
	6	680	0	10	10	-25	65	NBR	133X01	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	6960
	6	680	0	10	10	-25	65	NBR	133X01	-	496895	-	-	8	8	9.0/10.1/10.2	6960
	6	680	0	10	10	-25	80	FKM	133X01001D	-	483270	1-21	Ex db IIC T4 to T6	8	8	11.0	7031
1/4" NPT	6	680	0	10	10	-25	65	NBR	U133X01	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	7422

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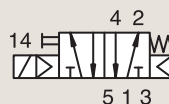
3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED



Process

ANODIZED ALUMINIUM PIPE MOUNTING

NORMALLY CLOSED



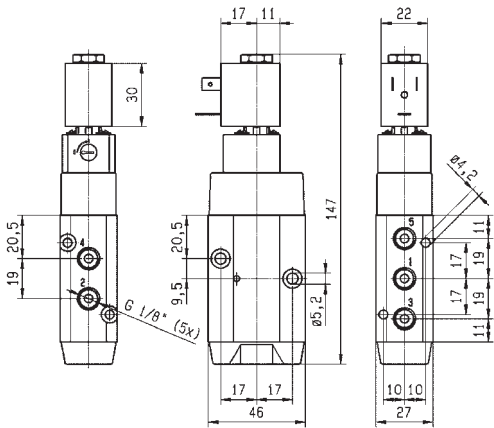
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"	4	600	2	10	10	-25	50	NBR	341P01 ₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7302
	4	600	2	10	10	-25	80	NBR	341P01 ₂	8993	488980	-	-	2	2.5	1.1	7302
	4	600	2	10	10	-25	80	NBR	341P21 ₁₂	2995	481865	-	-	8	9	2.1	7296
	4	600	2	10	10	-25	80	NBR	341P21 ₁₂	4270	481000	-	-	8	8	2.1	7296
	4	600	2	10	10	-40	65	PUR	341P2108 ₂	2995	481865	-	-	8	9	2.1	7296
	4	600	2	10	10	-40	65	PUR	341P2108 ₂	4270	481000	-	-	8	8	2.1	7296
	4	600	2	-	10	-20	65	NBR/PUR	341P2197 ₂	2995	482740	-	-	-	1.6	6.0/8.0	8027
	4	600	2	10	10	-20	65	NBR/PUR	341P2197 ₂	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8027
	4	600	2	-	10	-20	65	NBR/PUR	341P2197 ₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8027
	4	600	2	-	10	-20	65	NBR/PUR	341P2197 ₂	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8027

Notes:

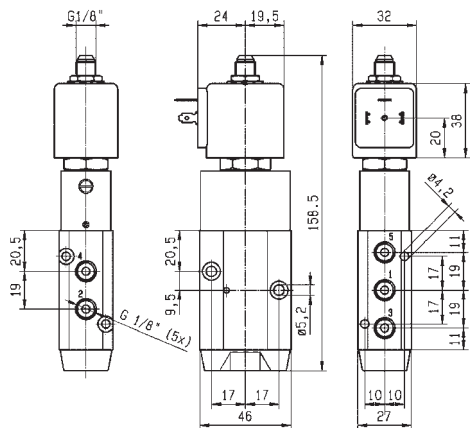
1. Pilot seat in FKM
2. With manual override



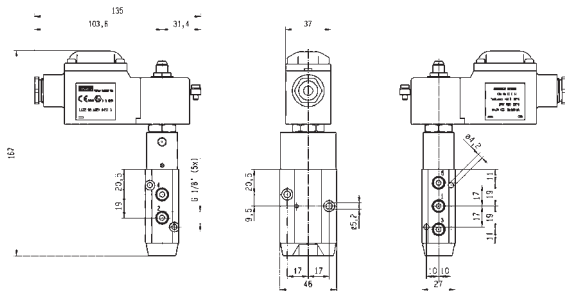
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	600	10	-40	-40
To	1/8"	4	600	10	80	50



Drawing 7302



Drawing 7296



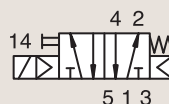
Drawing 8027

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

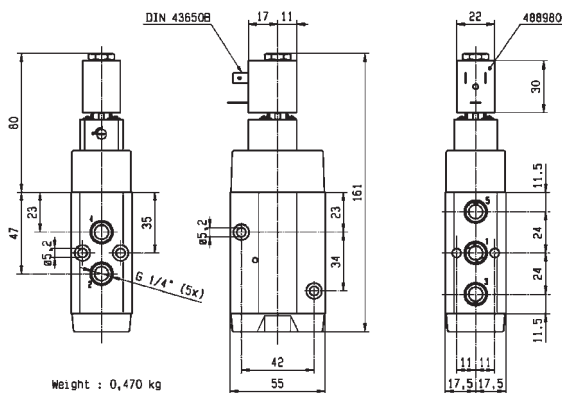
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max (MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"	15	600	2	-	10	-10	55	NBR	341P2190 ₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190 ₂	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190 ₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7351
1/4"	7	1250	2.5	10	10	-10	50	NBR	341P03 ₂	-	496131	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03 ₂	-	496482	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03 ₂	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P33 ₂	2995	481865	-	-	8	9	2.1	8219
	7	1250	2.5	10	10	-10	50	NBR	341P33 ₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8219
	7	1250	2.5	10	10	-10	50	NBR	341P33 ₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8219
	8	1400	2	10	10	-25	80	NBR	341P02 ₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7314
	8	1400	2	10	10	-25	80	NBR	341P02 ₂	8993	488980	-	-	2	2.5	1.1	7314

Notes:

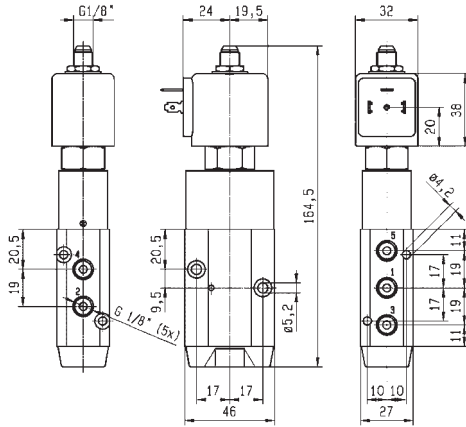
- Pilot seat in FKM
- With manual override



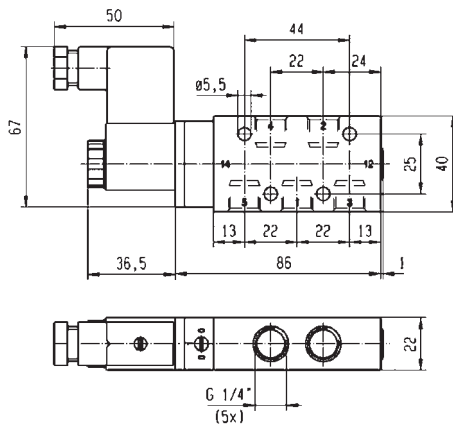
Drawing 7314



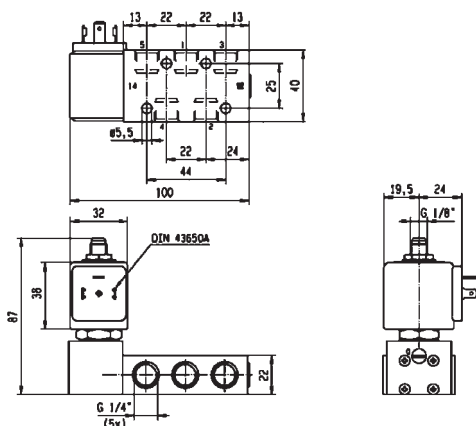
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	7	600	10	-25	-25
To	1/4"	15	1400	10	80	50



Drawing 7351



Drawing 8218

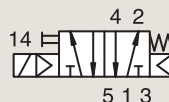


Drawing 8219

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING



NORMALLY CLOSED

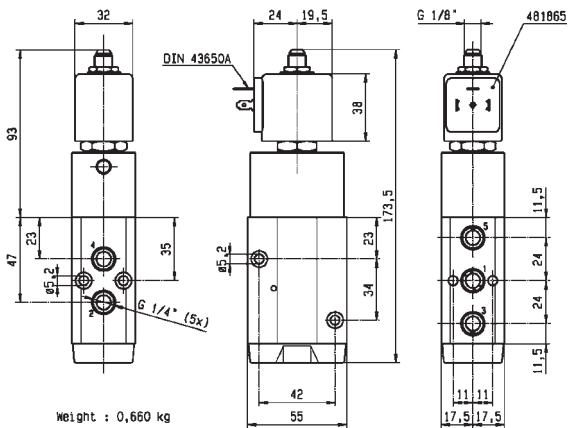
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	8	1400	2	10	10	-25	80	NBR	341P22 ₁₂	2995	481865	-	-	8	9	2.1	7319
	8	1400	2	10	10	-25	80	NBR	341P22 ₁₂	4270	481000	-	-	8	8	2.1	7319
	8	1400	2	-	10	-25	55	NBR	341P2290	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7352
	8	1400	2	-	10	-25	75	NBR	341P2290	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7352
	8	1400	2	-	10	-25	75	NBR	341P2290	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7352
	8	1400	2	-	10	-20	80	NBR	341P2297 ₂₃	2995	482740	-	-	-	1.6	6.0/8.0	8030
	8	1400	2	10	10	-20	80	NBR	341P2297 ₂₃	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8030
	8	1400	2	-	10	-20	80	NBR	341P2297 ₂₃	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8030
	8	1400	2	-	10	-20	80	NBR	341P2297 ₂₃	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8030

Notes:

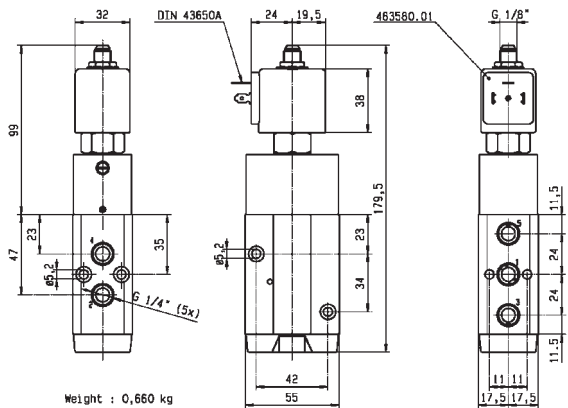
1. Pilot seat in FKM
2. With manual override
3. Pilot seat in PUR



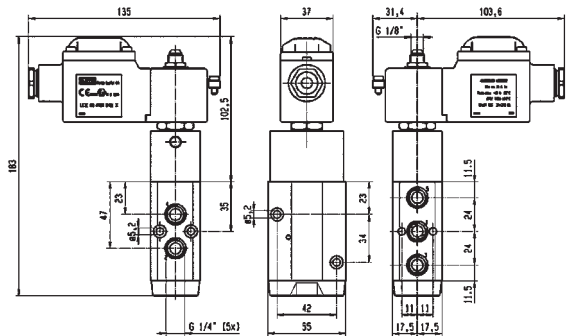
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	1400	10	-25	-25
To	1/4"	8	1400	10	80	50



Drawing 7319



Drawing 7352

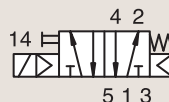


Drawing 8030

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING



NORMALLY CLOSED

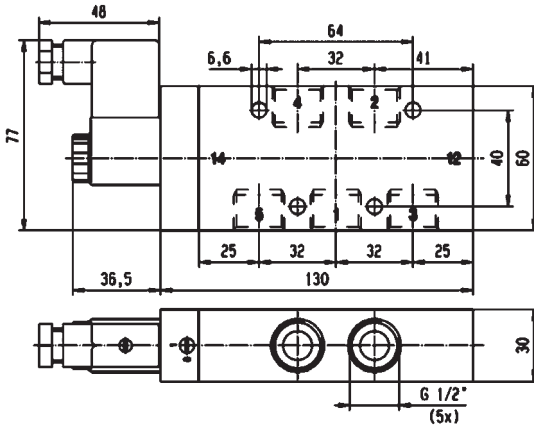
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/2"	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496131	-	-	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496482	-	-	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496637	22	Ex tc IIC T95°C	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	2995	481865	-	-	8	9	2.1	8221
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8221
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8221

Notes:

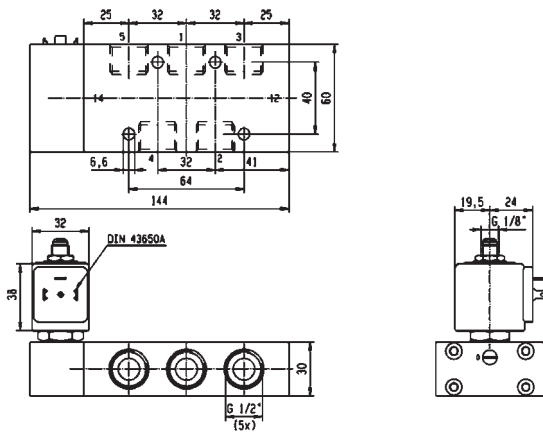
1. With manual override



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	12	3000	10	-10	-10
To	1/2"	12	3000	10	50	50



Drawing 8220



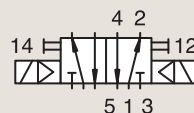
Drawing 8221

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

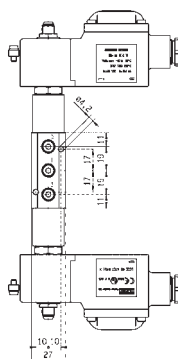
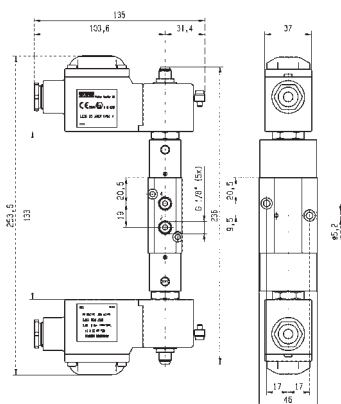
DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"	4	400	2	10	10	-25	80	NBR	347P01 ₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7306
	4	400	2	10	10	-25	80	NBR	347P01 ₂	8993	488980	-	-	2	2.5	1.1	7306
	4	400	2	10	10	-25	80	NBR	347P21 ₁₂	2995	481865	-	-	8	9	2.1	7298
	4	400	2	10	10	-25	80	NBR	347P21 ₁₂	4270	481000	-	-	8	8	2.1	7298
	4	400	2	-	10	-25	55	NBR	347P2190	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7353
	4	400	2	-	10	-25	75	NBR	347P2190	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7353
	4	400	2	-	10	-25	75	NBR	347P2190	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7353
	4	400	2	-	10	-20	65	NBR/PUR	347P2197 ₂	2995	482740	-	-	-	1.6	6.0/8.0	8028
	4	400	2	10	10	-20	65	NBR/PUR	347P2197 ₂	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8028
	4	400	2	-	10	-20	65	NBR/PUR	347P2197 ₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8028
	4	400	2	-	10	-20	65	NBR/PUR	347P2197 ₂	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8028

Notes:

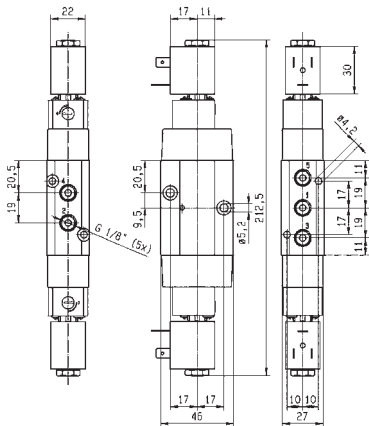
1. Pilot seat in FKM
2. With manual override



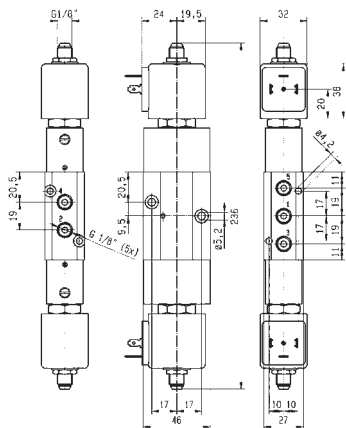
Drawing 8028



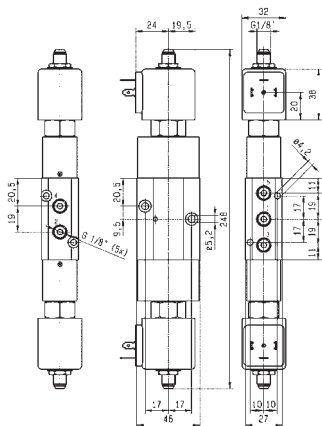
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	400	10	-25	-25
To	1/8"	4	400	10	80	50



Drawing 7306



Drawing 7298



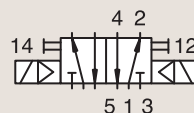
Drawing 7353

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

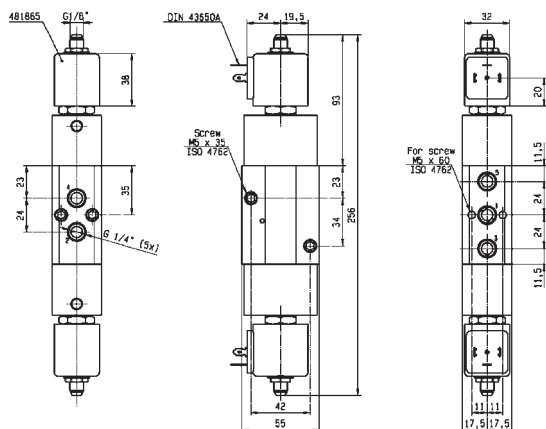
DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	347P03 ₂	-	496131	-	-	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	347P03 ₂	-	496482	-	-	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	347P03 ₂	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	347P33 ₁₂	2995	481865	-	-	8	9	2.1	8223
	7	1250	2.5	10	10	-10	50	NBR	347P33 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8223
	7	1250	2.5	10	10	-10	50	NBR	347P33 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8223
	8	1400	2	10	10	-25	80	NBR	347P02 ₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7316
	8	1400	2	10	10	-25	80	NBR	347P02 ₂	8993	488980	-	-	2	2.5	1.1	7316
	8	1400	2	10	10	-25	80	NBR	347P22 ₁₂	2995	481865	-	-	8	9	2.1	7321
	8	1400	2	10	10	-25	80	NBR	347P22 ₁₂	4270	481000	-	-	8	8	2.1	7321

Notes:

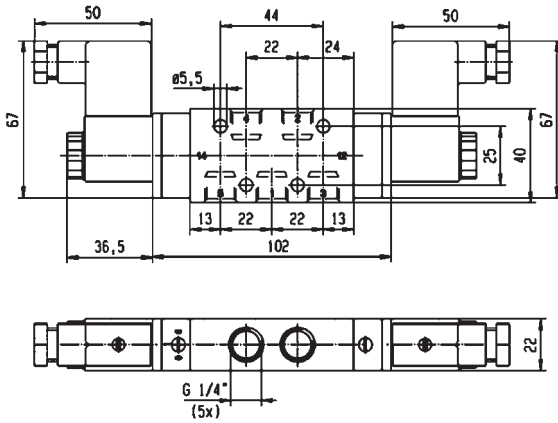
1. Pilot seat in FKM
2. With manual override



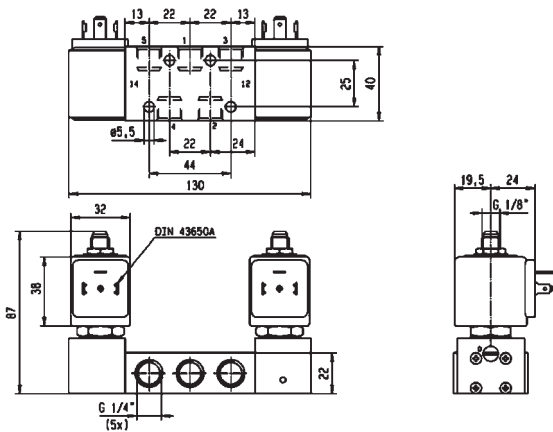
Drawing 7321



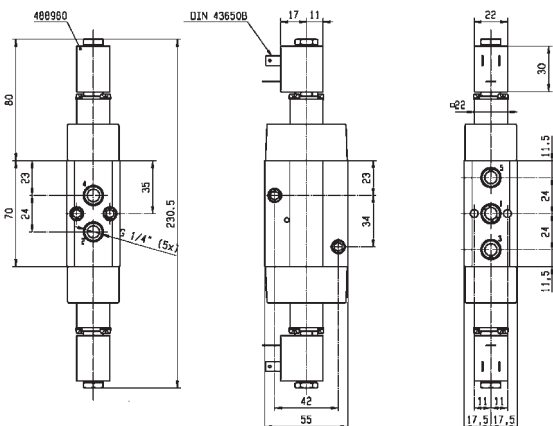
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-25	-25
To	1/4"	8	1400	10	80	50



Drawing 8222



Drawing 8223



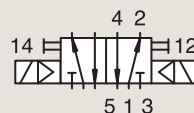
Drawing 7316

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

DUAL SOLENOIDS



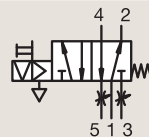
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/2"	12	3000	2.5	10	10	-10	50	NBR	347P04 ₂	-	496131	-	-	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P04 ₂	-	496482	-	-	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P04 ₂	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P34 ₁₂	2995	481865	-	-	8	9	2.1	8225
	12	3000	2.5	10	10	-10	50	NBR	347P34 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8225
	12	3000	2.5	10	10	-10	50	NBR	347P34 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8225

Notes:

1. Pilot seat in FKM
2. With manual override

ANODIZED ALUMINIUM PIPE MOUNTING

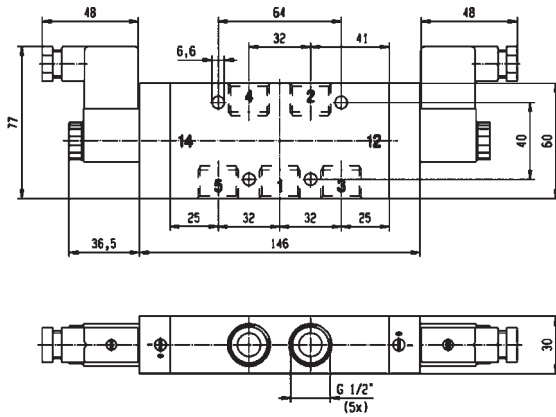
CONTROL BY ELECTRIC IMPULSE



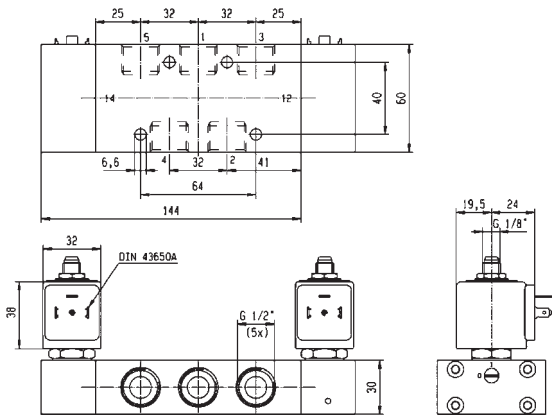
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm		bar	bar	bar	°C	°C										
1/8"	4	600	2	-	10	-25	80	NBR	345P21	4269	485400	-	-	-	13	4.0	8123



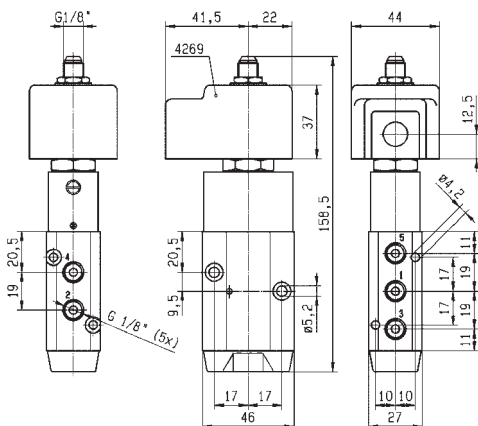
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	600	10	-25	-25
To	1/2"	12	3000	10	80	50



Drawing 8224



Drawing 8225



Drawing 8123

3/2

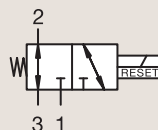
3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING) MANUAL RESET



Process

BRASS PIPE MOUNTING

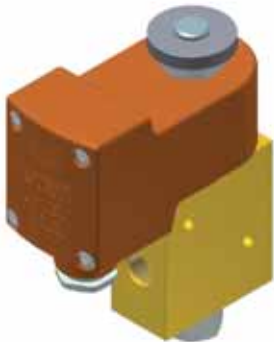
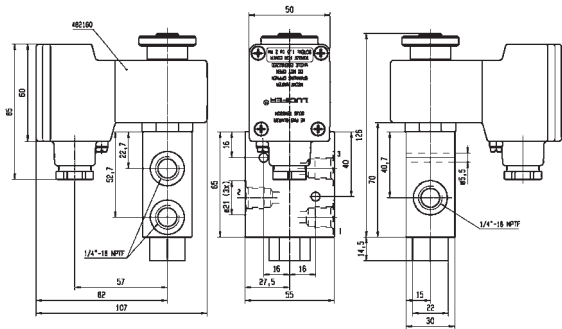
UNIVERSAL



Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPT	6	680	0	10	10	-25	65	NBR	U033X0111	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2/12.0	7641
	6	680	0	10	10	-25	65	NBR	U033X0111	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	7641



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	680	10	-25	-25
To	1/4"	6	680	10	65	65



Drawing 7641





3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)



Air

3/2
5/2
5/3

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated Pilot Operated	Anodized aluminium/ NAMUR	Normally Closed	1/4"	6	680	10	75	-	334
	Anodized aluminium/ NAMUR/Spool	Solenoid operated - spring return	1/8"-1/4"	4 to 8	1400	10	80	-	340
			1/4"	7 to 8	1400	10	80	-	336
			1/2"	12	3000	10	50	-	336
		Dual Solenoids	1/8"-1/4"	4	400	10	80	-	352
			1/4"	7 to 8	1400	10	120	-	354
			1/2"	12	3000	10	120	-	356
		W1 closed center position	1/8"-1/4"	4	400	10	80	-	358
			1/4"	4 to 7	1250	10	120	-	358
		W3 exhausted in center position	1/4"	7	1250	10	50	-	360
		Control by Electric Impulse	1/8"-1/4"	4	600	10	80	-	362
	Anodized aluminium/ NAMUR/Poppet	Solenoid operated - spring return	1/8"-1/4"	4	355	10	75	-	362
Air Operated	Anodized aluminium/ NAMUR	W1 closed center position	1/4"	7	1250	10	50	-	372
		Air operated - spring return	1/8"-1/4"	4	600	10	80	-	368
			1/4"	7	1250	10	50	-	366
			1/2"	12	3000	10	50	-	366
		Air operated and return	1/4"	7	1250	10	50	-	370

3/2

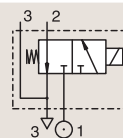
3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) DIRECT OPERATED



Process

ANODIZED ALUMINIUM NAMUR

NORMALLY CLOSED



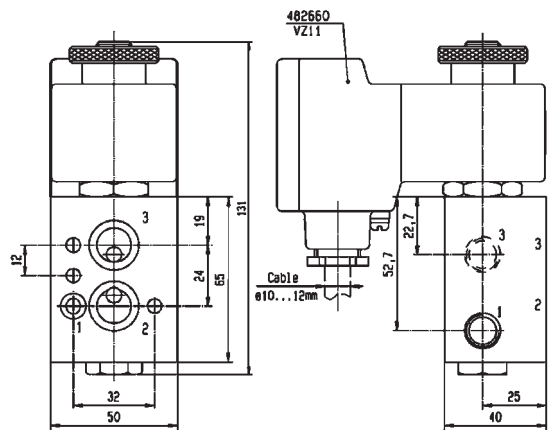
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	6	680	0	10	10	-25	75	NBR	131X1101	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	7336
	6	680	0	-	10	-25	75	NBR	131X1101	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	7336
	6	680	0	10	10	-25	75	NBR	131X1101	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1	7336
	6	680	0	10	10	-25	75	NBR	131X1101	-	496895	-	-	8	8	9.0/10.1	7336
	6	680	0	-	10	-25	65	NBR	131X1131 ₁	-	492310	1-21	Ex eb mb II T3 to T6	-	6	10.1/10.2	7336
	6	680	0	-	10	-25	65	NBR	131X1131 ₁	-	496700	1-21	Ex db mb IIC T4 to T6	-	6	10.1/10.2	7336
	6	680	0	-	10	-25	65	NBR	131X1131 ₁	-	496895	-	-	-	8	10.1/10.2	7336
1/4" NPT	6	680	0	-	10	-25	75	NBR	U131X1101	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2	7336
	6	680	0	10	10	-25	65	NBR	U131X1101	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2	7336
	6	680	0	10	10	-25	65	NBR	U131X1101	-	496895	-	-	8	8	10.1/10.2	7336

Notes:

1. DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	680	10	-25	-25
To	1/4"	6	680	10	75	65



Drawing 7336

3/2

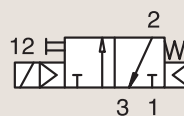
3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED



Process

ANODIZED ALUMINIUM NAMUR

SOLENOID OPERATED - SPRING RETURN



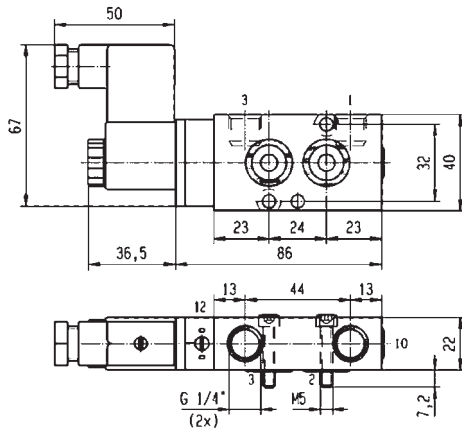
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	331N03 ₁	-	496131	-	-	3	3	1.2	8056
	7	1250	2.5	10	10	-10	50	NBR	331N03 ₁	-	496482	-	-	3	3	1.2	8056
	7	1250	2.5	10	10	-10	50	NBR	331N03 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8056
1/2"	12	3000	2.5	10	10	-10	50	NBR	331N04 ₁	-	496131	-	-	3	3	1.2	8060
	12	3000	2.5	10	10	-10	50	NBR	331N04 ₁	-	496482	-	-	3	3	1.2	8060
	12	3000	2.5	10	10	-10	50	NBR	331N04 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8060
	12	3000	2.5	10	10	-10	50	NBR	331N0402	-	496131	-	-	3	3	1.2	8251
	12	3000	2.5	10	10	-10	50	NBR	331N0402	-	496482	-	-	3	3	1.2	8251

Notes:

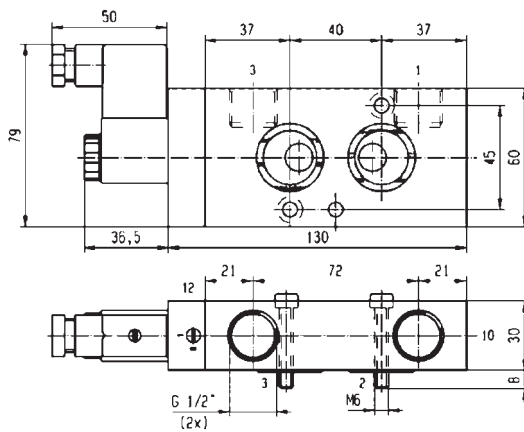
1. With manual override



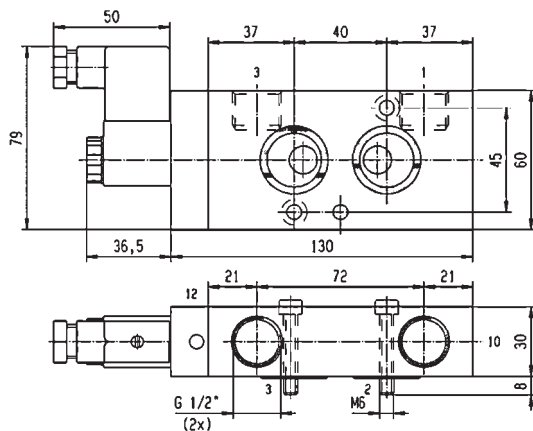
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/2"	12	3000	10	50	50



Drawing 8056



Drawing 8060

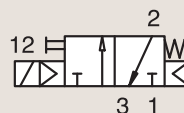


Drawing 8251

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM NAMUR



SOLENOID OPERATED - SPRING RETURN

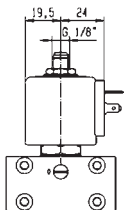
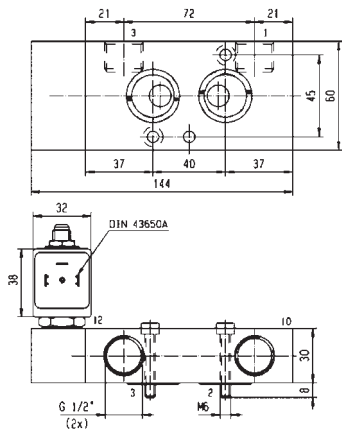
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/2"	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁₂	2995	481865	-	-	8	9	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	331N3402 ₂	2995	481865	-	-	8	9	2.1	8252

Notes:

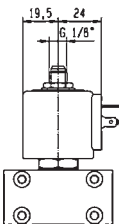
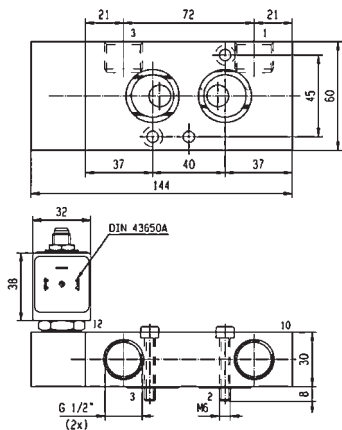
1. With manual override
2. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	12	3000	10	-10	-10
To	1/2"	12	3000	10	50	50

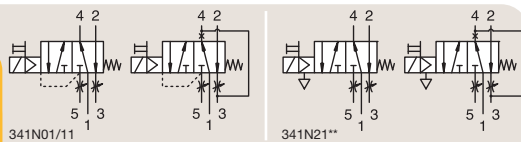


Drawing 8210



Drawing 8252

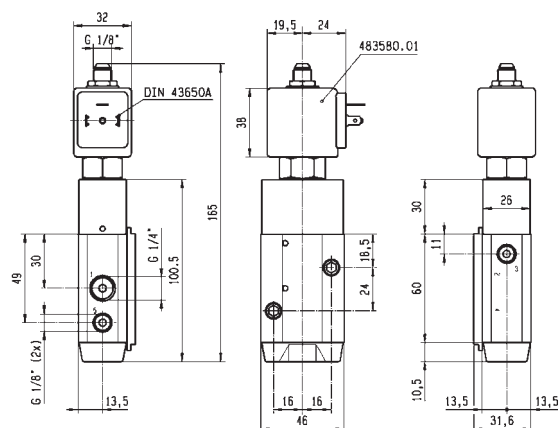
ANODIZED ALUMINIUM NAMUR



SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"- 1/4"	4	600	2	10	10	-25	80	NBR	341N01 ₁₂	8993	488980	-	-	2	2.5	1.1	7301
	4	600	2	10	10	-25	80	NBR	341N11 ₁₂	8993	488980	-	-	2	2.5	1.1	7300
	4	600	2	10	10	-25	80	NBR	341N21 ₁₂	2995	481865	-	-	8	9	2.1	7311
	4	600	2	10	10	-25	80	NBR	341N21 ₁₂	4270	481000	-	-	8	8	2.1	7311
	4	600	2	-	10	-25	55	NBR	341N2190 ₁₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7874
	4	600	2	-	10	-25	55	NBR	341N2190 ₁₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7874

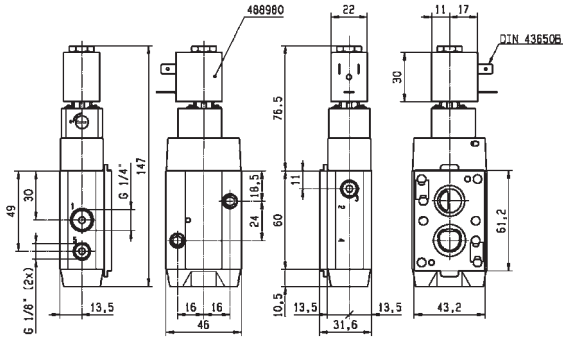
1. With captured exhaust
2. With manual override



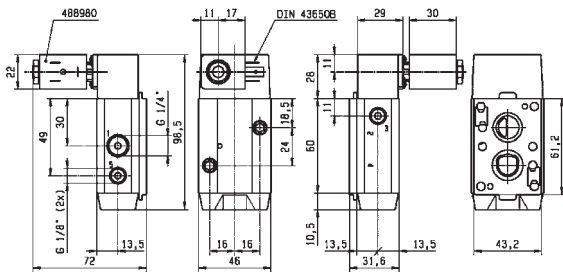
Drawing 7874



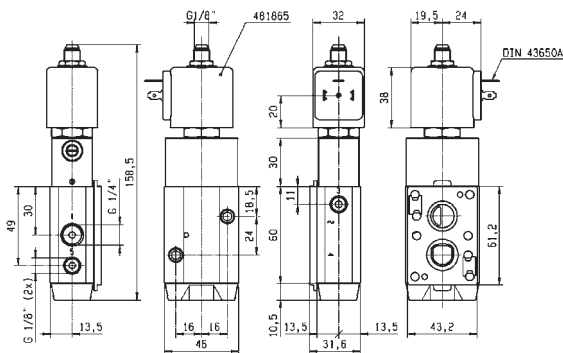
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	600	10	-25	-25
To	1/8"-1/4"	4	600	10	80	50



Drawing 7301



Drawing 7300



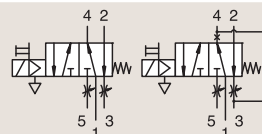
Drawing 7311

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM NAMUR

SOLENOID OPERATED - SPRING RETURN



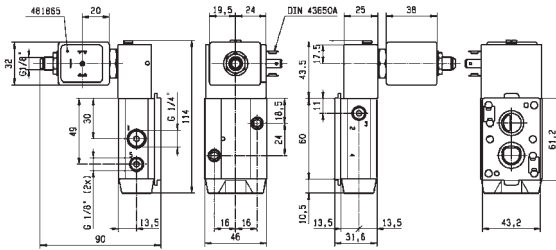
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8" 1/4"	4	600	2	10	10	-25	80	NBR	341N31 ₃₄	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-25	80	NBR	341N31 ₃₄	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	7295
	4	600	2	10	10	-25	65	NBR	341N31 ₃₄	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	7295
	4	600	2	10	10	-25	80	NBR	341N3102 ₄	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3108 ₃	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3108 ₃	4270	481000	-	-	8	8	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3128	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3128	4270	481865	-	-	8	9	2.1	7295
	4	600	2	-	10	-25	80	NBR	341N3130 ₁₃₄	2995	481865	-	-	-	9	2.1	7295
	4	600	2	-	10	-25	80	NBR	341N3130 ₁₃₄	-	492190	1-21	Ex eb mb IIC T3/T4	-	9	2.1	7295
	4	600	2	-	10	-25	80	NBR	341N3130 ₁₃₄	-	495905	1-21	Ex db mb IIC T4	-	8	2.1	7295
	4	600	2	-	10	-10	55	NBR	341N3190	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7349
	4	600	2	-	10	-10	75	NBR	341N3190	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7349
	4	600	2	-	10	-10	75	NBR	341N3190	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7349
	4	600	2	-	10	-25	65	NBR	341N3196 ₅	2995	482740	-	-	-	1.6	6.0/8.0	8017
	4	600	2	10	10	-25	65	NBR	341N3196 ₅	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3196 ₅	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3196 ₅	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 ₃₅	2995	482740	-	-	-	1.6	6.0/8.0	8017
	4	600	2	10	10	-25	65	NBR	341N3197 ₃₅	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 ₃₅	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 ₃₅	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8017

Notes:

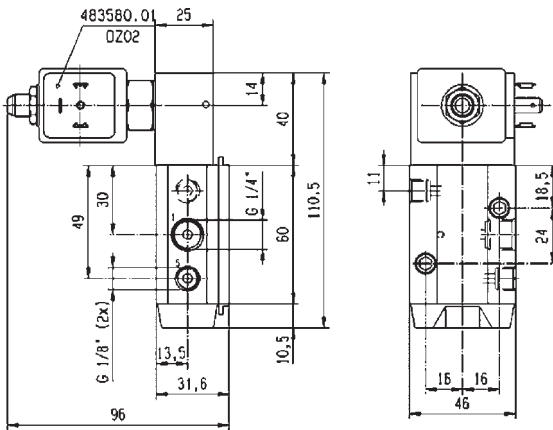
1. DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2. With captured exhaust
3. With manual override
4. Pilot seat in FKM
5. Pilot seat in PUR



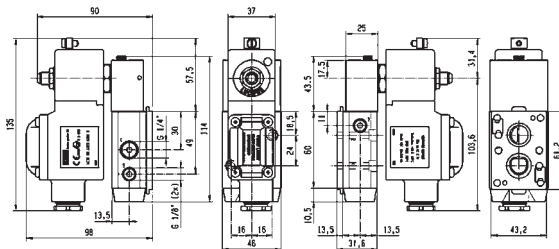
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	600	10	-40	-25
To	1/8"-1/4"	4	600	10	80	50



Drawing 7295



Drawing 7349



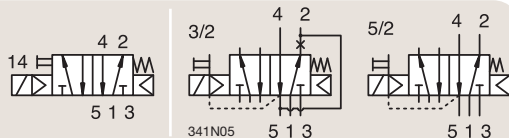
Drawing 8017

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM NAMUR

SOLENOID OPERATED - SPRING RETURN



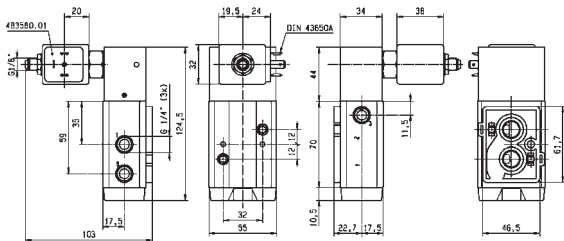
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8" 1/4"	8	1400	2	-	10	-25	55	NBR	341N3290	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7350
	8	1400	2	-	10	-25	75	NBR	341N3290	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0/8.0	7350
	8	1400	2	-	10	-25	75	NBR	341N3290	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7350
	8	1400	2	-	10	-20	80	NBR	341N3296	2995	482740	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-20	80	NBR	341N3296	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	341N3296	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	341N3296	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	341N3297 ₁	2995	482740	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-20	80	NBR	341N3297 ₁	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	341N3297 ₁	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8029
1/4"	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8029
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496131	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496482	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8162

Notes:

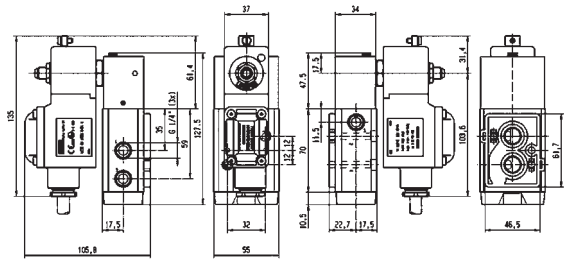
1. With manual override



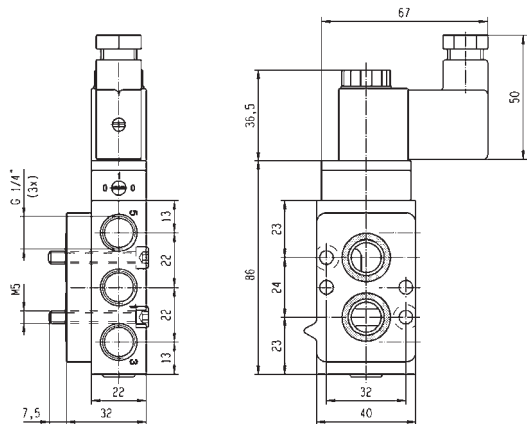
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	7	1250	10	-25	-25
To	1/4"	8	1400	10	80	50



Drawing 7350



Drawing 8029



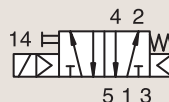
Drawing 8162

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

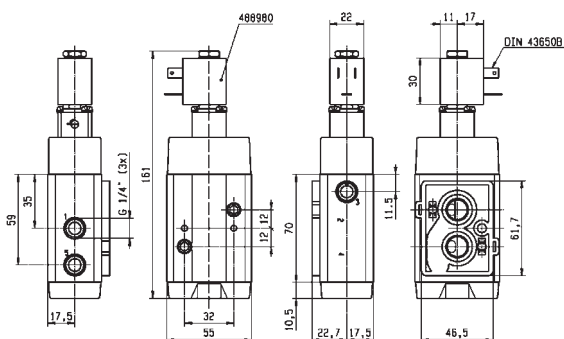
SOLENOID OPERATED - SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1200	2.5	10	10	-10	50	NBR	341N0502	-	496131	-	-	3	3	1.2	8253
	7	1200	2.5	10	10	-10	50	NBR	341N0502	-	496482	-	-	3	3	1.2	8253
	7	1200	2.5	10	10	-10	50	NBR	341N35 ₂	2995	481865	-	-	8	9	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	341N35 ₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	341N35 ₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	341N3502	2995	481865	-	-	8	9	2.1	8254
	7	1200	2.5	10	10	-10	50	NBR	341N3502	4270	481000	-	-	8	8	2.1	8254
	8	1400	2	10	10	-25	80	NBR	341N02 ₁₂	8993	488980	-	-	2	2.5	1.1	7313

Notes:

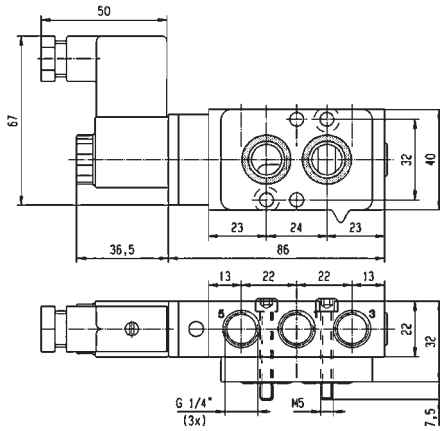
1. With captured exhaust
2. With manual override



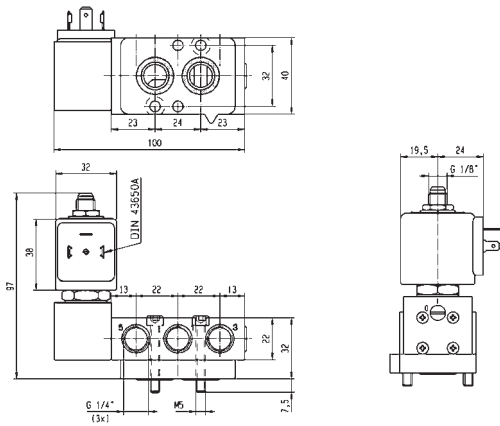
Drawing 7313



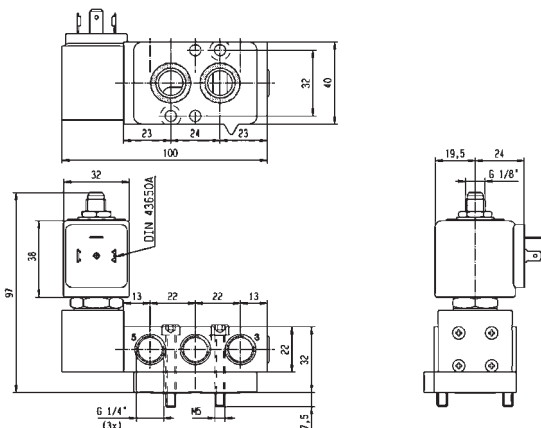
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1200	10	-25	-25
To	1/4"	8	1400	10	80	50



Drawing 8253



Drawing 8213



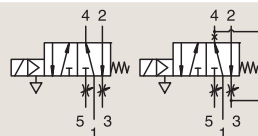
Drawing 8254

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

SOLENOID OPERATED - SPRING RETURN



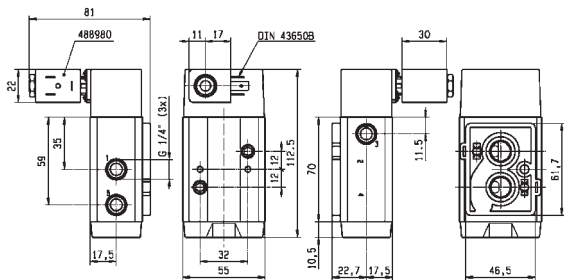
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	8	1400	2	10	10	-25	80	NBR	341N12 ₁₂	8993	488980	-	-	2	2.5	1.1	7312
	8	1400	2	10	10	-25	80	NBR	341N22 ₂	2995	481865	-	-	8	9	2.1	7318
	8	1400	2	10	10	-25	80	NBR	341N22 ₂	4270	481000	-	-	8	8	2.1	7318
	8	1400	2	10	10	-25	80	NBR	341N32 ₂	2995	481865	-	-	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	341N32 ₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	341N32 ₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	7317
	8	1400	2	10	10	-25	80	NBR	341N3202	2995	481865	-	-	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	341N3202	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	341N3202	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	7317

Notes:

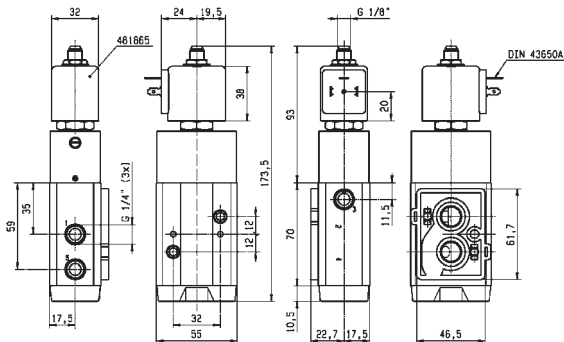
1. With captured exhaust
2. With manual override



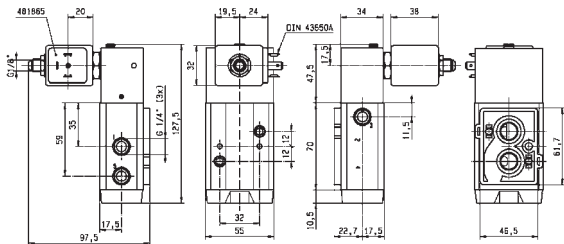
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	1400	10	-25	-25
To	1/4"	8	1400	10	80	50



Drawing 7312



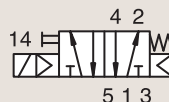
Drawing 7318



Drawing 7317

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR


SOLENOID OPERATED - SPRING RETURN

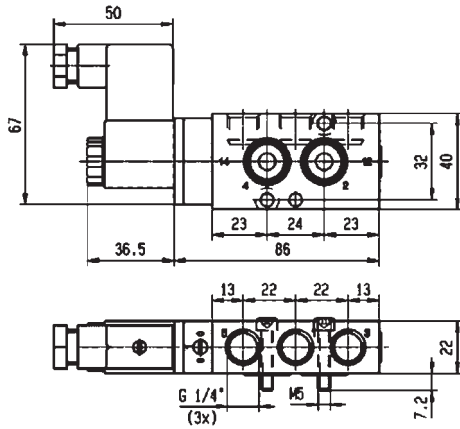
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	341N03 ₁	-	496131	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-10	50	NBR	341N03 ₁	-	496482	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-10	50	NBR	341N03 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8063
1/2"	12	3000	2.5	10	10	-10	50	NBR	341N04 ₁	-	496131	-	-	3	3	1.2	8065
	12	3000	2.5	10	10	-10	50	NBR	341N04 ₁	-	496482	-	-	3	3	1.2	8065
	12	3000	2.5	10	10	-10	50	NBR	341N04 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8065
	12	3000	2.5	10	10	-10	50	NBR	341N34 ₁₂	2995	481865	-	-	8	9	2.1	8211
	12	3000	2.5	10	10	-10	50	NBR	341N34 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8211
	12	3000	2.5	10	10	-10	50	NBR	341N34 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8211

Notes:

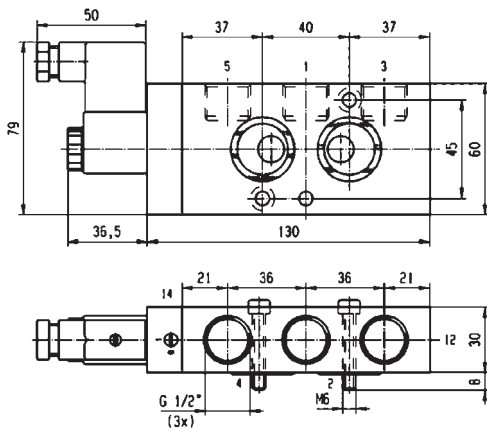
1. With manual override
2. Pilot seat in FKM



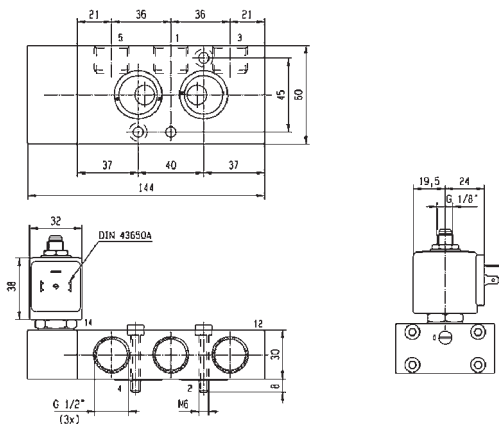
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/2"	12	3000	10	50	50



Drawing 8063



Drawing 8065



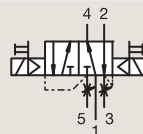
Drawing 8211

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

DUAL SOLENOIDS



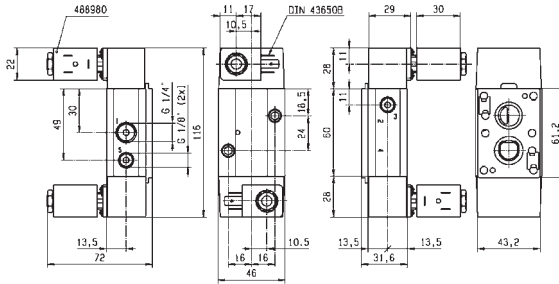
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"-1/4"	4	400	2	10	10	-25	50	NBR	347N11 ¹²³	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	NBR	347N11 ¹²³	8993	488980	-	-	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	NBR	347N31 ²³	2995	481865	-	-	8	9	2.1	7297
	4	400	2	10	10	-25	80	NBR	347N31 ²³	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	7297
	4	400	2	10	10	-25	80	NBR	347N31 ²³	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	7297
	4	400	2	-	10	-25	55	NBR	347N3190 ³	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	8141
	4	400	2	-	10	-25	65	NBR	347N3197 ²⁴	2995	482740	-	-	-	1.6	3.0/6.0/8.0	7297
	4	400	2	10	10	-25	65	NBR	347N3197 ²⁴	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	3.0/6.0/8.0	7297
	4	400	2	-	10	-25	65	NBR	347N3197 ²⁴	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	3.0/6.0/8.0	7297
	4	400	2	-	10	-25	65	NBR	347N3197 ²⁴	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	3.0/6.0/8.0	7297

Notes:

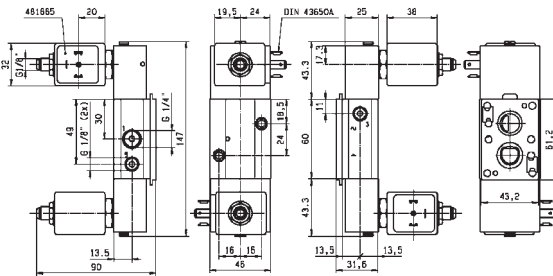
1. With captured exhaust
2. With manual override
3. Pilot seat in FKM
4. Pilot seat in PUR



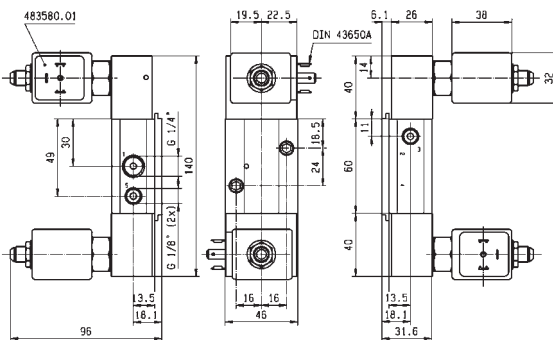
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	400	10	-25	-25
To	1/8"-1/4"	4	400	10	80	50



Drawing 7305



Drawing 7297



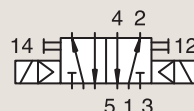
Drawing 8141

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

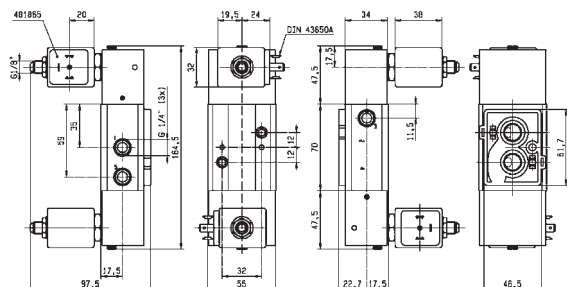
DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	347N03 ₂	-	496131	-	-	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	347N03 ₂	-	496482	-	-	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	347N03 ₂	-	496637	22	Ex tc IIC T95°C	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	347N33 ₃	2995	481865	-	-	8	9	2.1	8209
	7	1250	2.5	10	10	-10	50	NBR	347N33 ₃	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8209
	7	1250	2.5	10	10	-10	50	NBR	347N33 ₃	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8209
	8	1400	2	10	10	-10	65	NBR	347N12 ₁₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7315
	8	1400	2	10	10	-25	80	NBR	347N12 ₁₂	8993	488980	-	-	2	2.5	1.1	7315
	8	1400	2	10	10	-25	80	NBR	347N32 ₂₃	2995	481865	-	-	8	9	2.1	7320
	8	1400	2	10	10	-25	80	NBR	347N32 ₂₃	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	7320
	8	1400	2	10	10	-25	80	NBR	347N32 ₂₃	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	7320

Notes:

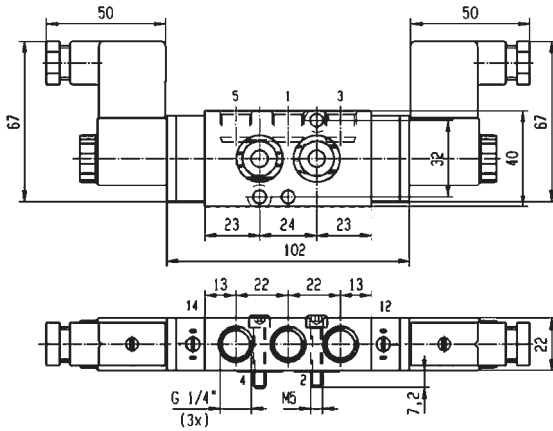
1. With captured exhaust
2. With manual override
3. Pilot seat in FKM



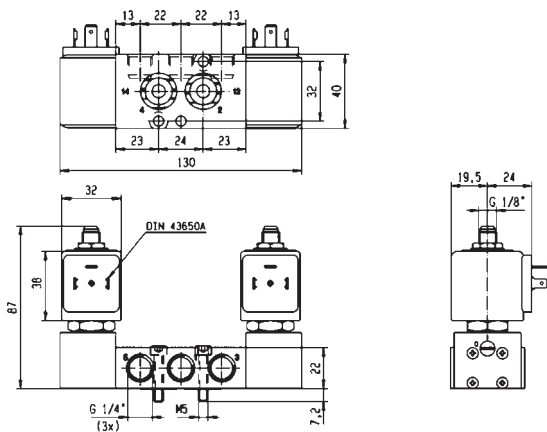
Drawing 7320



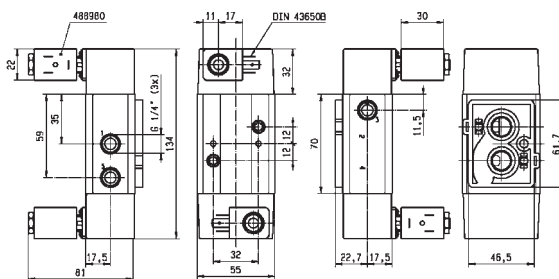
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-25	-25
To	1/4"	8	1400	10	120	50



Drawing 8057



Drawing 8209



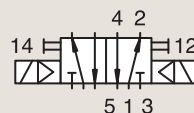
Drawing 7315

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

DUAL SOLENOIDS



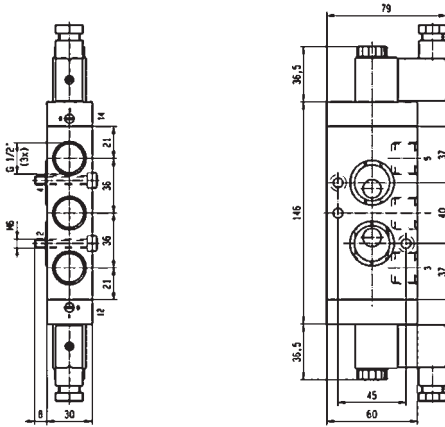
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/2"	12	3000	2.5	10	10	-10	50	NBR	347N04 ₁	-	496131	-	-	3	3	1.2	8154
	12	3000	2.5	10	10	-10	50	NBR	347N04 ₁	-	496482	-	-	3	3	1.2	8154
	12	3000	2.5	10	10	-10	50	NBR	347N04 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8154
	12	3000	2.5	10	10	-10	50	NBR	347N34 ₁₂	2995	481865	-	-	8	9	2.1	8212
	12	3000	2.5	10	10	-10	50	NBR	347N34 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8212
	12	3000	2.5	10	10	-10	50	NBR	347N34 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8212

Notes:

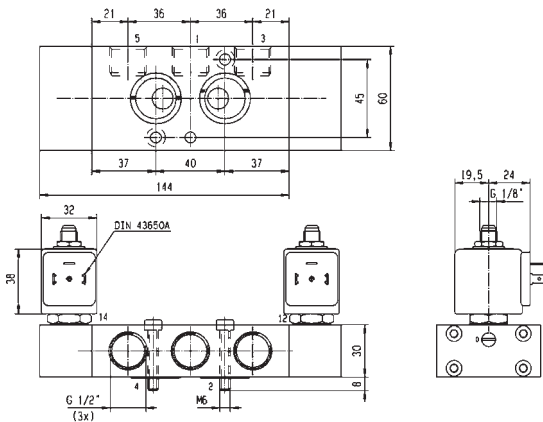
1. With manual override
2. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	12	3000	10	-10	-10
To	1/2"	12	3000	10	120	50



Drawing 8154



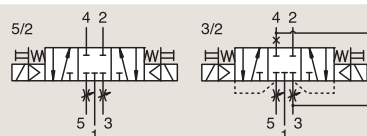
Drawing 8212

5/3

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

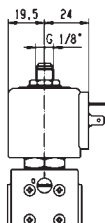
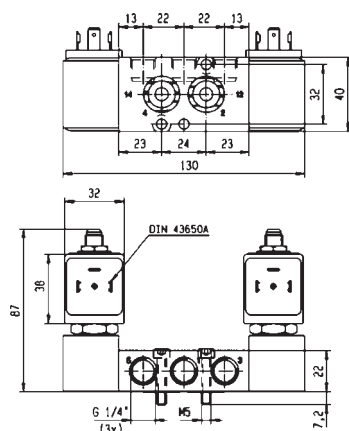
W1 CLOSED CENTER POSITION



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"-1/4"	4	400	2	10	10	-25	80	NBR	342N11 ₁₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	NBR	342N11 ₁₂	8993	488980	-	-	2	2.5	1.1	7305
1/4"	4	400	2	-	10	-10	65	NBR	342N3197 ₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	7297
	7	1250	3	10	10	-10	50	NBR	342N03 ₂	-	496131	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	342N03 ₂	-	496482	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	342N03 ₂	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	342N33 ₂	2995	481865	-	-	8	9	2.1	8209
	7	1250	2.5	10	10	-10	50	NBR	342N33 ₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1	8209
	7	1250	2.5	10	10	-10	50	NBR	342N33 ₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1	8209

Notes:

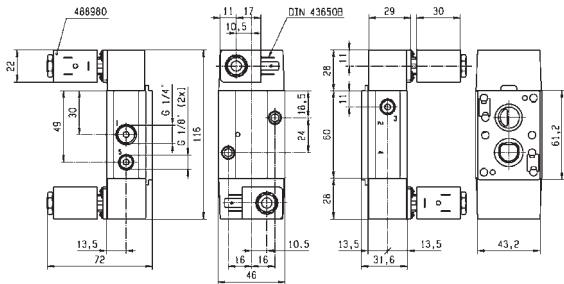
- With captured exhaust
- With manual override



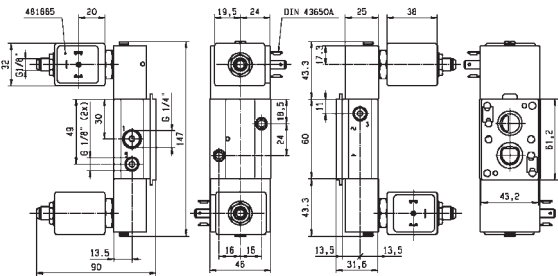
Drawing 8209



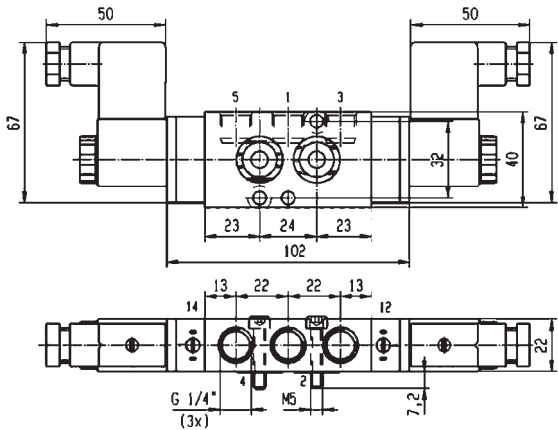
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	400	10	-25	-25
To	1/4"	7	1250	10	120	50



Drawing 7305



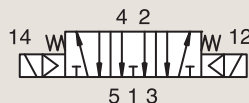
Drawing 7297



Drawing 8057

5/3

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR


W3 EXHAUSTED IN CENTER POSITION

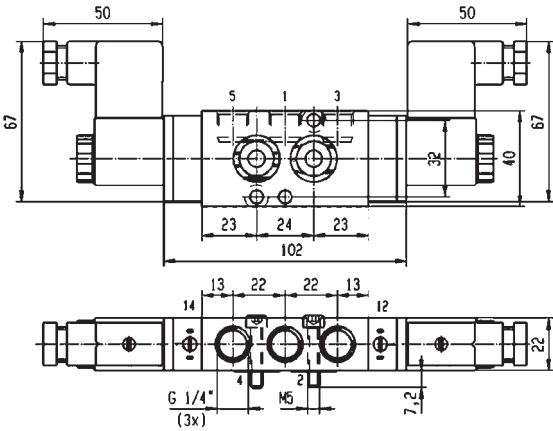
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	343N03 ₁	-	496131	-	-	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	343N03 ₁	-	496482	-	-	3	3	1.2	8057
	7	1250	2.5	10	10	-10	50	NBR	343N03 ₁	-	496637	22	Ex tc IIIC T95°C	3	3	1.2	8057

Notes:

1. With manual override



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/4"	7	1250	10	50	50



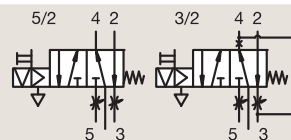
Drawing 8057

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

CONTROL BY ELECTRIC IMPULSE



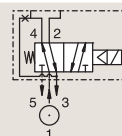
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"	4	600	2	-	10	-25	80	FKM/NBR	345N31 ₁₂	4269	485400	-	-	-	13	4.0	7295
1/4"																	

Notes:

1. Pilot seat in FKM
2. With manual override

ANODIZED ALUMINIUM
NAMUR

SOLENOID OPERATED - SPRING RETURN



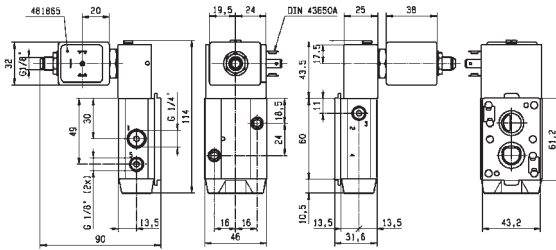
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8" 1/4"	4	355	1	10	10	-10	75	NBR	341L9504 ₁₂	-	482605	1-21	Ex mb IIC T4/T5	4	5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 ₁₂	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 ₁₂	8993	488980	-	-	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 ₁₂	8993	495865	2-22	Ex nAc nCc IIC T5	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9534 ₁₂	2995	481865	-	-	8	9	2.1/7.0	3990
	4	355	1	10	10	-10	75	NBR	341L9534 ₁₂	2995	495870	2-22	Ex nAc nCc IIC T3/T4	8	9	2.1/7.0	3990
	4	355	1	10	10	-10	75	NBR	341L9534 ₁₂	-	495905	1-21	Ex db mb IIC T4	8	8	2.1/7.0	3990

Notes:

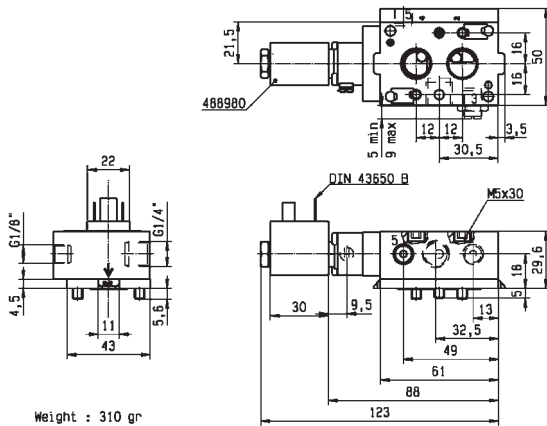
1. Pilot seat in FKM
2. With manual override



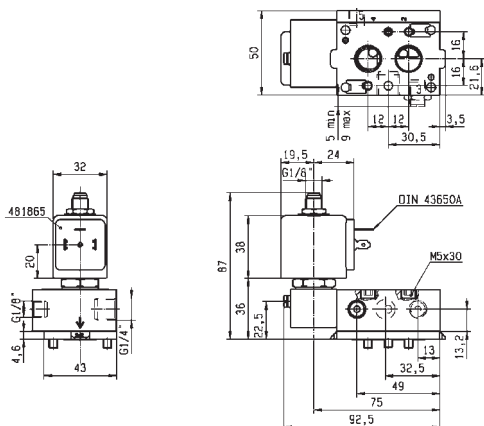
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	355	10	-25	-25
To	1/8"-1/4"	4	600	10	80	50



Drawing 7295



Drawing 7009



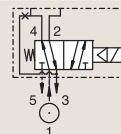
Drawing 3990

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

SOLENOID OPERATED - SPRING RETURN



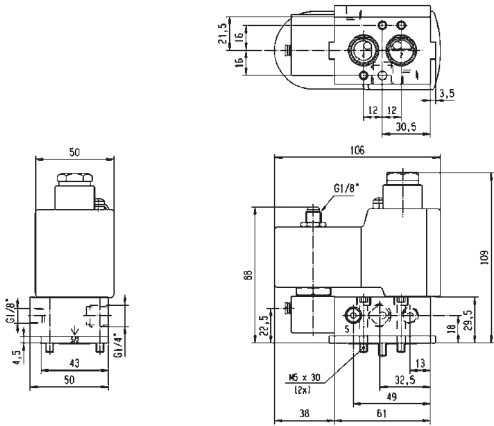
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8" 1/4"	4	355	2	-	10	-10	55	NBR	341L9594 ₁₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	3992
	4	355	1	-	10	-10	75	NBR	341L9594 ₁₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	3992
	4	355	2	-	10	-10	75	NBR	341L9597 ₂₃	2995	482740	-	-	-	1.6	6.0/8.0	8025
	4	355	2	10	10	-10	75	NBR	341L9597 ₂₃	-	495900	1-21	Ex db mb IIC T4 to T6	2.5	2	6.0/8.0	8025
	4	355	2	-	10	-10	75	NBR	341L9597 ₂₃	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8025
	4	355	2	-	10	-10	75	NBR	341L9597 ₂₃	2995	496125	2-22	Ex nAc nCc IIC T5/T6	-	1.6	6.0/8.0	8025
	4	355	2	-	10	-25	55	NBR	341L9598 ₃	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	3992

Notes:

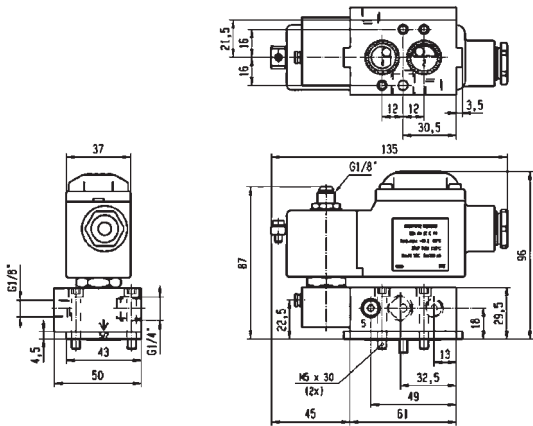
1. Pilot seat in FKM
2. With manual override
3. Pilot seat in PUR



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	355	10	-25	-10
To	1/8"-1/4"	4	355	10	75	50



Drawing 3992



Drawing 8025

3/2

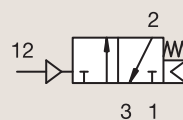
3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) EXTERNALLY OPERATED



Process

ANODIZED ALUMINIUM NAMUR

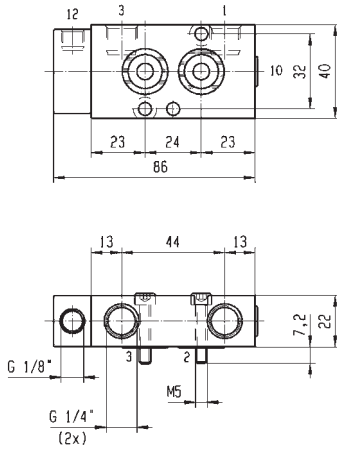
AIR OPERATED - SPRING RETURN



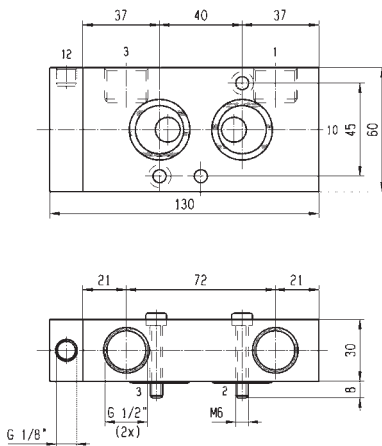
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm		bar	AC bar	bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	531N03	-	-	-	-	-	-	-	8058
1/2"	12	3000	2.5	10	10	-10	50	NBR	531N04	-	-	-	-	-	-	-	8061



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/2"	12	3000	10	50	50



Drawing 8058



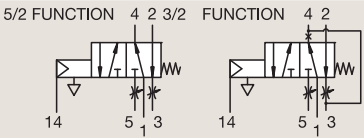
Drawing 8061

3/2-5/2

3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
EXTERNALLY OPERATED

ANODIZED ALUMINIUM
NAMUR

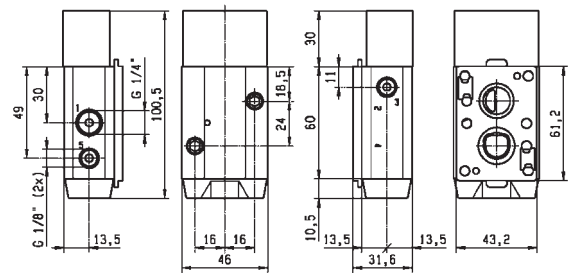
AIR OPERATED - SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/8"-1/4"	4	600	2	10	10	-25	80	NBR	541N01	-	-	-	-	-	-	-	7309
	4	600	2	10	10	-40	50	NBR	541N0108	-	-	-	-	-	-	-	7309



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	600	10	-40	-40
To	1/8"-1/4"	4	600	10	80	50



Drawing 7309

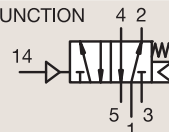
5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR) EXTERNALLY OPERATED

ANODIZED ALUMINIUM NAMUR

AIR OPERATED - SPRING RETURN

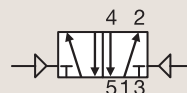
5/2 FUNCTION



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	541N03	-	-	-	-	-	-	-	8064
1/2"	12	3000	2.5	10	10	-10	50	NBR	541N04	-	-	-	-	-	-	-	8066

ANODIZED ALUMINIUM NAMUR

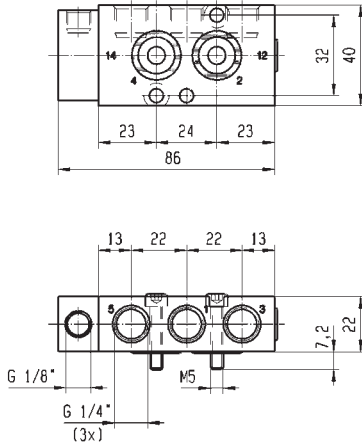
AIR OPERATED AND RETURN



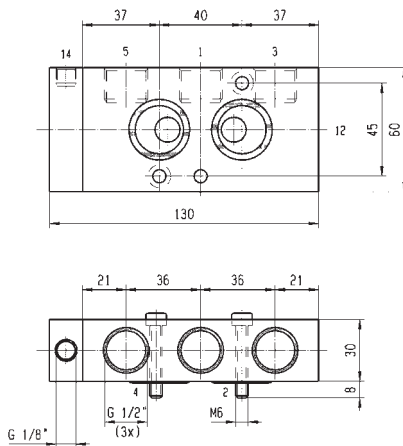
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	547N03	-	-	-	-	-	-	-	8059



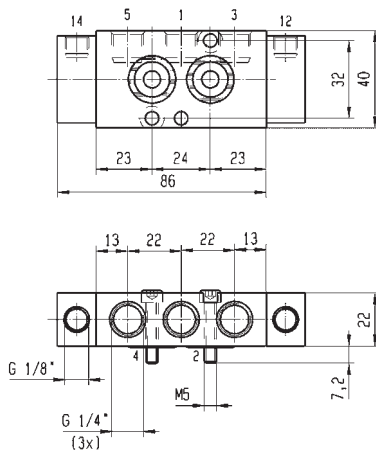
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/2"	12	3000	10	50	50



Drawing 8064



Drawing 8066



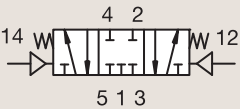
Drawing 8059

5/3

3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
EXTERNALLY OPERATED

ANODIZED ALUMINIUM
NAMUR

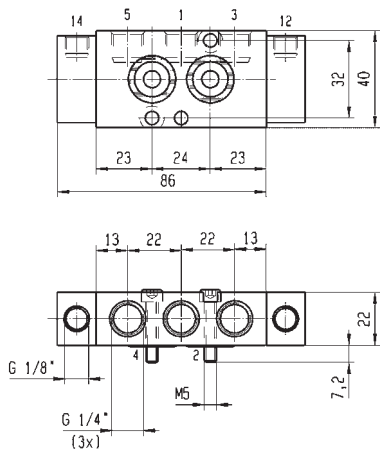
W1 CLOSED CENTER POSITION



Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	mm		bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	542N03	-	-	-	-	-	-	-	8059



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	7	1250	10	-10	-10
To	1/4"	7	1250	10	50	50



Drawing 8059

3 & 5 WAY PNEUMATIC DISTRIBUTORS FOR ACTUATION CONTROL



316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)



3/2
5/2

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	316L Stainless St./Pipe mounting	Universal	1/4"	2 to 6	680	12	80	-	376
			3/8"	6	680	10	75	-	382
	316L Stainless St./Sub-base mounting	Normally Closed	5 mm	2.5	220	14	80	-	384
			6 mm	2.5	220	10	75	-	384
		Universal	1/4"	6	680	10	65	-	384
Pilot Operated	316L Stainless St./NAMUR	Normally Closed	3/8"	6	680	10	75	-	386
	316L Stainless St./Pipe mounting	Normally Closed	3/8"	8	1400	10	80	-	388
	316L Stainless St./Pipe mounting/Spool	Normally Closed	3/8"	8	1400	10	80	-	388
		Dual Solenoids	3/8"	8	1400	10	80	-	392
	316L Stainless St./NAMUR/Spool	Normally Closed	3/8"-1/4"	8	1400	10	80	-	394
		Solenoid operated - spring return	3/8"-1/4"	8	1400	10	80	-	394
		Dual Solenoids	3/8"-1/4"	8	1400	10	80	-	398
Manual Reset	316L Stainless St./Pipe mounting	Universal	1/4"	6	680	10	75	-	400
			3/8"	6	680	10	65	-	404

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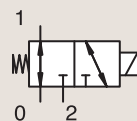
316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED



Process

316L STAINLESS ST. PIPE MOUNTING

UNIVERSAL



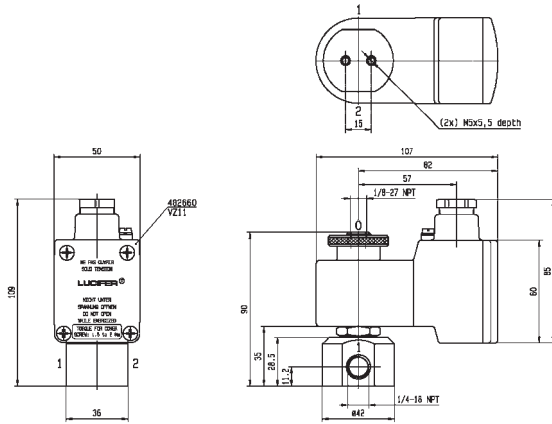
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPT	2	140	0	12	12	-25	65	FKM	U133V5595 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	6713
	2	140	0	-	12	-25	75	FKM	U133V5595 ₁	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	6713
	2	140	0	12	12	-25	65	FKM	U133V5595 ₁	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	6713
	2	140	0	12	12	-25	80	FKM	U133V55951D ₁	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	6714
	2	140	0	12	12	-25	65	FKM	U133V7595	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	8166
	2	140	0	-	12	-25	60	FKM	U133V7595	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	8166
	2	140	0	-	12	-25	65	FKM	U133V7595	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1	8166
	2.5	220	0	-	8.5	-25	75	FKM	U133V5695 ₁	-	492210	1-21	Ex eb mb IIC T5/T6	-	1.8	9.0/10.1	6713
	2.5	220	0	-	8.5	-25	75	FKM	U133V5695 ₁	-	492965.01	0-20	Ex ia IIC T6	-	1.8	9.0/10.1	6713
	2.5	220	0	8.5	8.5	-25	75	FKM	U133V5695 ₁	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	6713
	2.5	220	0	8.5	8.5	-10	75	FKM	U133V56951D ₁₂	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	6714
	2.5	220	0	8.5	8.5	-25	75	FKM	U133V7695	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	8166
	2.5	220	0	-	8.5	-25	65	FKM	U133V7695	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	8166
	2.5	220	0	-	8.5	-25	65	FKM	U133V7695	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1	8166

Notes:

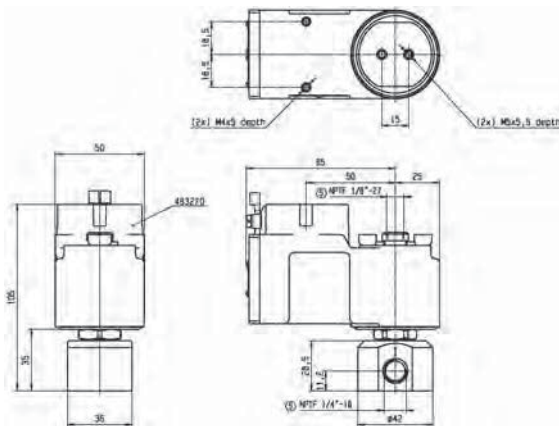
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
2. Valve only compatible with hydraulic oil and air/neutral gases



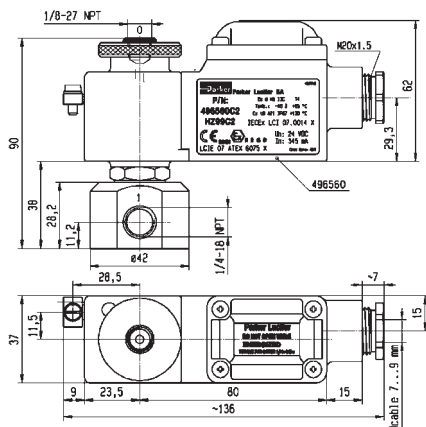
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2	140	8.5	-25	-25
To	1/4"	2.5	220	12	80	50



Drawing 6713



Drawing 6714

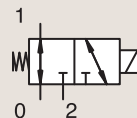


Drawing 8166

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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED

316L STAINLESS ST. PIPE MOUNTING



UNIVERSAL

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4" NPTF	6	680	0	10	10	-25	65	NBR	U133X5152 ₁₃	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2	7770
	6	680	0	10	10	-25	65	NBR	U133X5152 ₁₃	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2	7770
	6	680	0	-	10	-25	65	NBR	U133X5156 ₂₃	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7770
	6	680	0	10	10	-25	65	NBR	U133X5156 ₂₃	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	7770
	6	680	0	10	10	-25	75	NBR	U133X51561D ₂₃	-	483270.02	1-21	Ex d IIC T4 to T6	8	8	11.0	7011
	6	680	0	10	10	-25	65	NBR	U133X5192 ₁₂	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1	6904
	6	680	0	10	10	-25	65	NBR	U133X5192 ₁₂	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1	6904
	6	680	0	-	10	-25	65	NBR	U133X5196 ₂	-	492210	1-21	Ex eb mb IIC T5/T6	-	1.8	9.0/10.1/10.2	6904
	6	680	0	-	10	-25	65	NBR	U133X5196 ₂	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	6904
	6	680	0	10	10	-25	65	NBR	U133X5196 ₂	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	6904

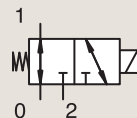
Notes:

1. DC voltage only (or coil with rectifier). Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
3. With manual override

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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED

316L STAINLESS ST. PIPE MOUNTING



UNIVERSAL

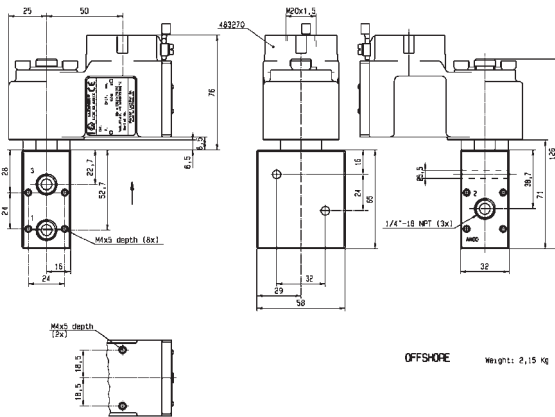
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4" NPTF	6	680	0	10	10	-25	65	NBR	U133X51961D ₁	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	7038
	6	680	0	10	10	-25	65	NBR	U133X7156 ₂	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8168
	6	680	0	-	10	-25	65	NBR	U133X7196	-	492210	1-21	Ex eb mb IIC T5/T6	-	1.8	9.0/10.1/10.2	8169
	6	680	0	-	10	-25	65	NBR	U133X7196	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	8169
	6	680	0	10	10	-25	65	NBR	U133X7196	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8169

Notes:

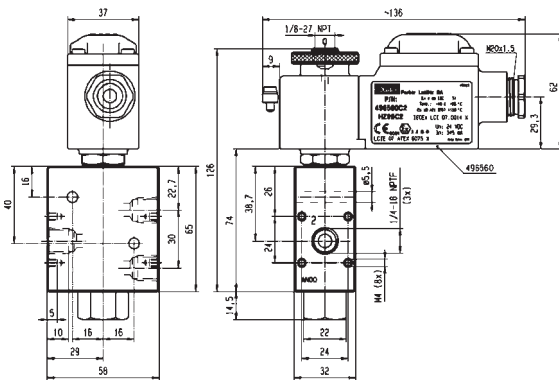
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
2. With manual override



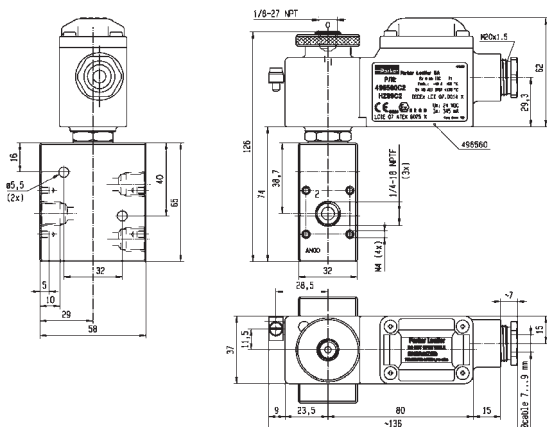
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	680	10	-25	-25
To	1/4"	6	680	10	65	65



Drawing 7038



Drawing 8168

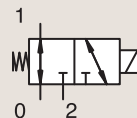


Drawing 8169

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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED

316L STAINLESS ST. PIPE MOUNTING



UNIVERSAL

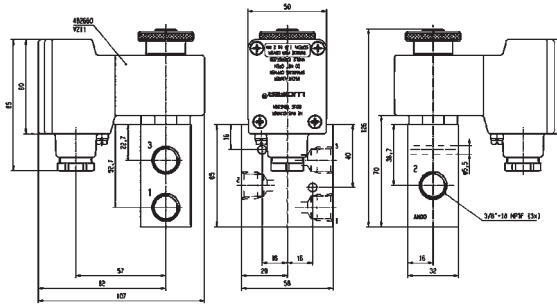
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
3/8" NPTF	6	680	0	10	10	-25	65	NBR	U133X5296 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1/10.2	7669
	6	680	0	-	10	-25	65	NBR	U133X5296 ₁	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7669
	6	680	0	10	10	-25	65	NBR	U133X5296 ₁	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	7669
	6	680	0	10	10	-25	75	NBR	U133X52961D ₁	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	7670

Notes:

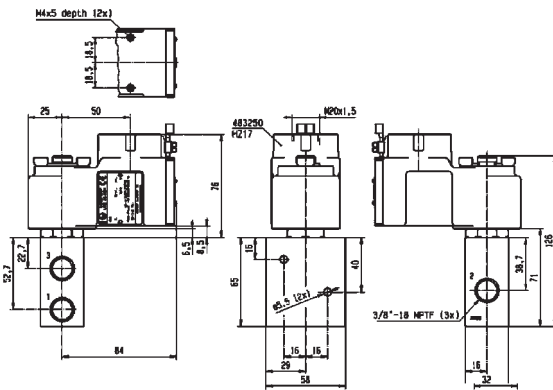
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	6	680	10	-25	-25
To	3/8"	6	680	10	75	65



Drawing 7669

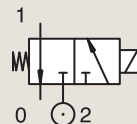


Drawing 7670

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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED

316L STAINLESS ST. SUB-BASE MOUNTING



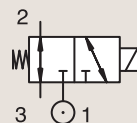
NORMALLY CLOSED

Port size	Orifice	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode		Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W				
	mm	Qn l/min		bar	AC bar			DC bar				°C			°C			
SB	2.5	220	0	-	12	-25	65	FKM	U131F5695 ₁	-	492210	1-21	Ex eb mb IIC T5/T6	-	1.8	9.0/10.1	3782	
	2.5	220	0	-	12	-25	65	FKM	U131F5695 ₁	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	3782	
	2.5	220	0	12	12	-25	75	FKM	U131F5695 ₁	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	3782	
	2.5	220	0	14	14	-10	80	FKM	U131F56951D ₁₂	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	3783	
SB	2.5	220	0	10	10	-25	75	FKM	U131F5295	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8174	

Notes:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
2. Valve only compatible with hydraulic oil and air/neutral gases

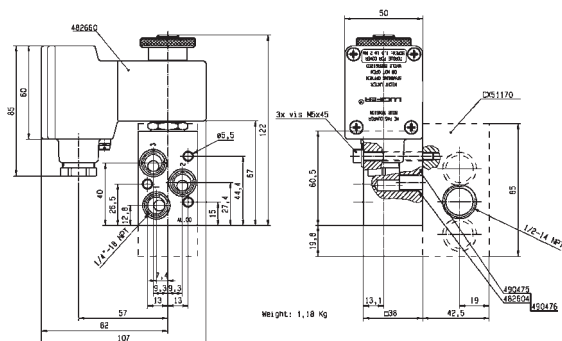
316L STAINLESS ST. SUB-BASE MOUNTING

**UNIVERSAL**

Port size	Orifice	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W			DC W			
	mm	Qn l/min	bar	AC bar	DC bar	°C		°C									
1/4" NPTF	6	680	0	10	10	-25	65	FKM	U133X5195	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1/10.2	3572
	6	680	0	10	10	-25	65	FKM	U133X5195	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	3572

Notes:

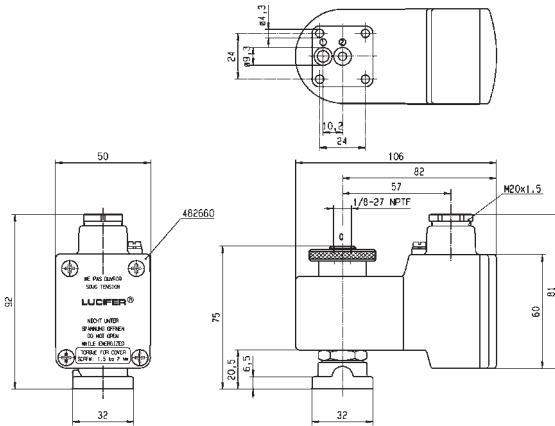
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



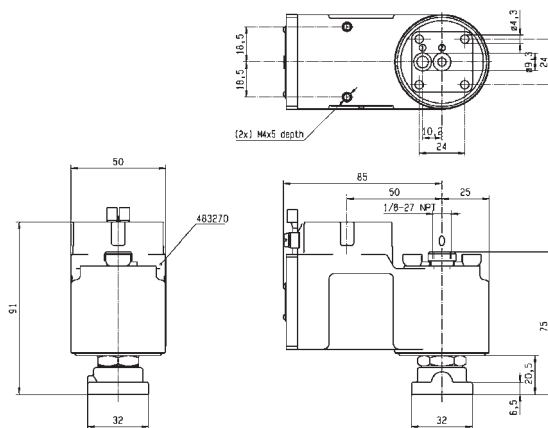
Drawing 3572



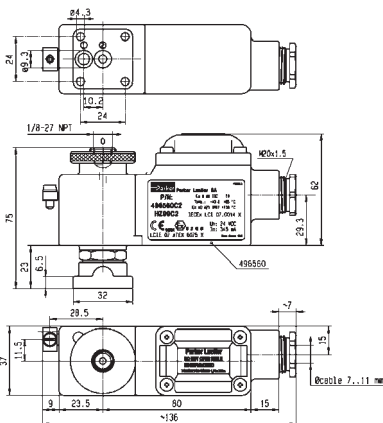
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2.5	220	10	-25	-25
To	SB	6	680	14	80	50



Drawing 3782



Drawing 3783



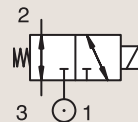
Drawing 8174

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) DIRECT OPERATED

316L STAINLESS ST. SUB-BASE MOUNTING

UNIVERSAL



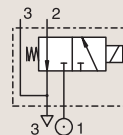
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPTF	6	680	0	10	10	-25	65	FKM	U133X51951D ₁	-	483270	1-21	Ex db IIC T4 to T6	8	8	11.0	3688
	6	680	0	10	10	-25	65	FKM	U133X51951D ₁	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	3688
	6	680	0	-	10	-25	65	FKM	U133X7195	-	492210	1-21	Ex eb mb IIC T5/T6	-	1.8	9.0/10.1/10.2	8172
	6	680	0	-	10	-25	65	FKM	U133X7195	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	8172
	6	680	0	10	10	-25	65	FKM	U133X7195	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8172

Notes:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

316L STAINLESS ST. NAMUR

NORMALLY CLOSED



Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8" NPT	6	680	0	10	10	-25	65	NBR	U131X1201 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1/10.2	7668
	6	680	0	-	10	-25	75	NBR	U131X1201 ₁	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7668
	6	680	0	10	10	-25	65	NBR	U131X1201 ₁	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	7668

Notes:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

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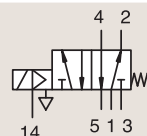
316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) PILOT OPERATED



Process

316L STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



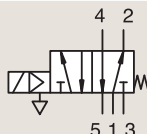
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8" NPT	8	1400	2	10	10	-25	80	NBR	U441P3250 ₁₂	4270	481000	-	-	8	8	2.1	7565
	8	1400	2	10	10	-25	80	NBR	U441P3250 ₁₂	2995	481865	-	-	8	9	2.1	7565

Notes:

1. Pilot seat in FKM
2. Valve with external pilot pressure minimum 4 bar

316L STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED



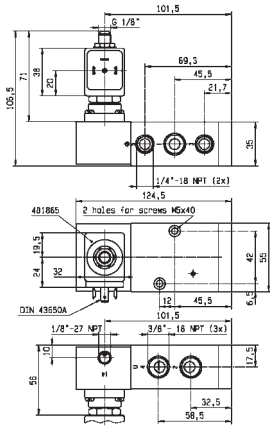
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" 1/8" NPT	8	1400	2	10	10	-25	80	NBR	U341P0250 ₁₂₃	8993	481045	-	-	2	2.5	1.1	7578
	8	1400	2	10	10	-25	80	NBR	U341P0250 ₁₂₃	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7578
1/4" 3/8" NPT	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	4270	481000	-	-	8	8	2.1	7558
	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	2995	481865	-	-	8	9	2.1	7558
	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	2995	492453	-	-	8	9	2.1	7558

Notes:

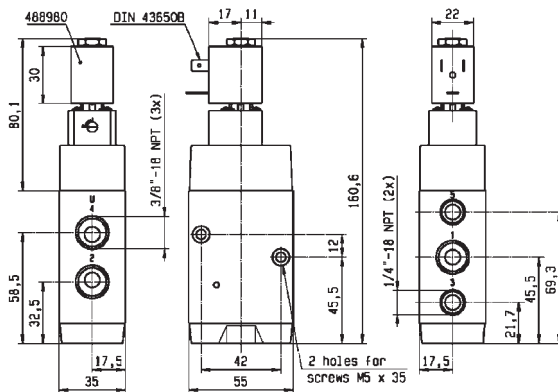
1. Pilot seat in FKM
2. With captured exhaust
3. With manual override



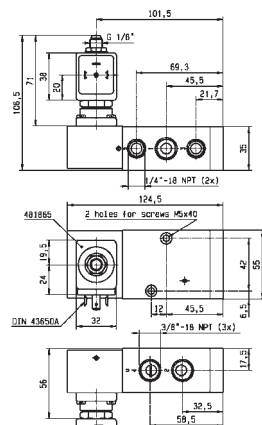
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	8	1400	10	-25	-25
To	3/8"	8	1400	10	80	50



Drawing 7565



Drawing 7578



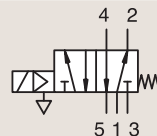
Drawing 7558

5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) PILOT OPERATED

316L STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED



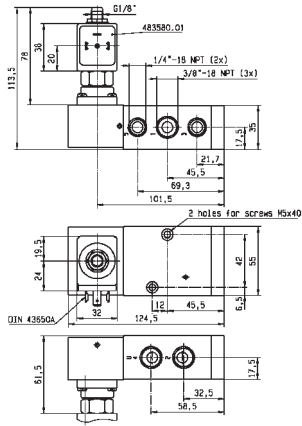
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max (MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8" NPT	8	1400	2	-	10	-25	55	NBR	U341P3292 ₁	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7560
	8	1400	2	10	10	-25	75	NBR	U341P3295 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	7561
	8	1400	2	-	10	-25	75	NBR	U341P3295 ₁	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	7561

Notes:

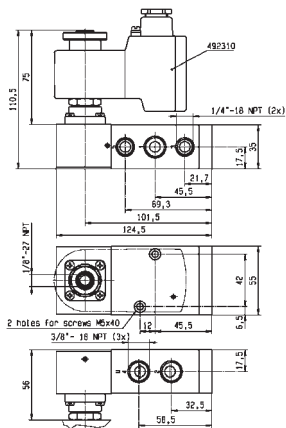
1. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	8	1400	10	-25	-25
To	3/8"	8	1400	10	75	50



Drawing 7560

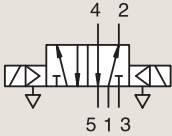


Drawing 7561

5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED

316L STAINLESS ST.
PIPE MOUNTING



DUAL SOLENOIDS

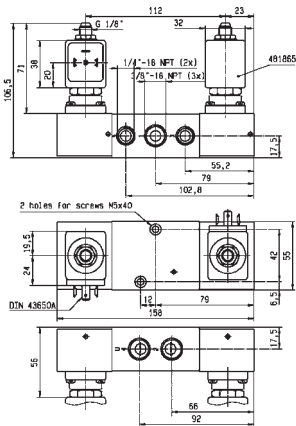
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	mm		bar	AC bar	DC bar	°C	°C										
3/8" NPT	8	1400	2	10	10	-25	80	NBR	U347P3250	4270	481000	-	-	8	8	2.1	7563
	8	1400	2	10	10	-25	80	NBR	U347P3250	-	483371	1-21	Ex eb IIC T4	8	8	2.1	7563
	8	1400	2	10	10	-25	75	NBR	U347P3295	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	7564
	8	1400	2	10	10	-25	75	NBR	U347P3295	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	7564

Notes:

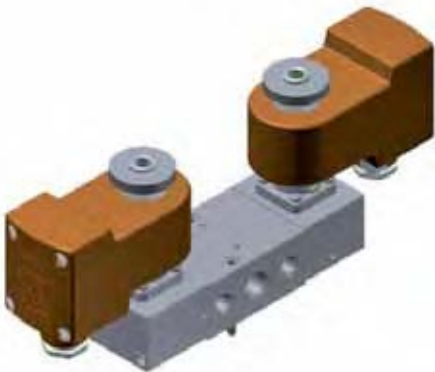
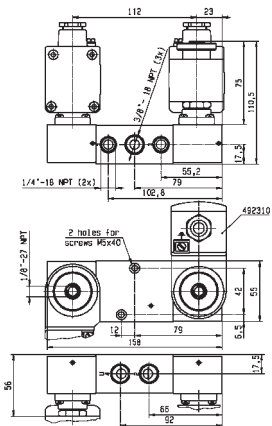
1. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	8	1400	10	-25	-25
To	3/8"	8	1400	10	80	50



Drawing 7563



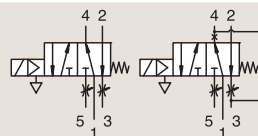
Drawing 7564

3/2-5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) PILOT OPERATED

316L STAINLESS ST. NAMUR

NORMALLY CLOSED



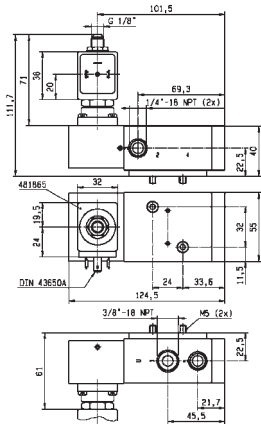
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8"- 1/4" NPT	8	1400	2	10	10	-25	80	NBR	U341N3250	2995	481865	-	-	8	9	2.1	7554
	8	1400	2	10	10	-25	80	NBR	U341N3250	-	492190	1-21	Ex eb mb IIC T3/T4	11	9	2.1	7554
	8	1400	2	-	10	-25	55	NBR	U341N3292	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7556
	8	1400	2	10	10	-25	75	NBR	U341N3295	-	492310	1-21	Ex eb mb II T3 to T6	6	6	9.0/10.1	7696
	8	1400	2	10	10	-25	75	NBR	U341N3295	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	7696

Notes:

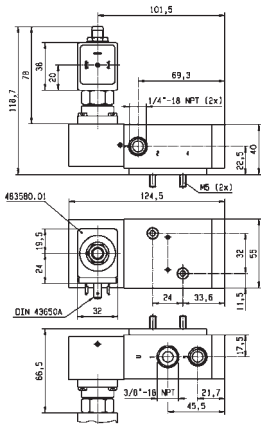
1. Pilot seat in FKM



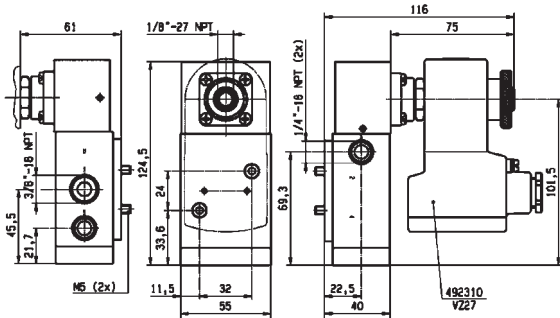
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"-1/4"	8	1400	10	-25	-25
To	3/8"-1/4"	8	1400	10	80	50



Drawing 7554



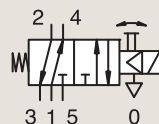
Drawing 7556



Drawing 7696

3/2-5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) PILOT OPERATED

316L STAINLESS ST.
NAMUR


SOLENOID OPERATED - SPRING RETURN

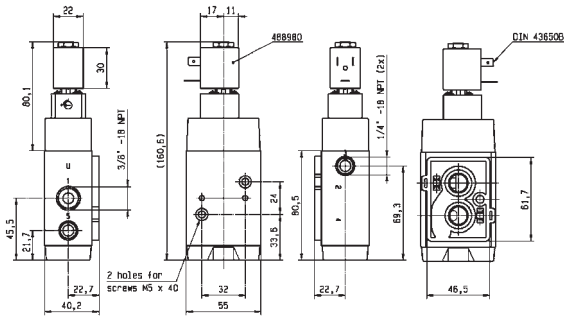
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8"- 1/4"NPT	8	1400	2	10	10	-25	80	NBR	U341N0250 ₁₂₃	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7577
	8	1400	2	10	10	-25	80	NBR	U341N0250 ₁₂₃	8993	488980	-	-	2	2.5	1.1	7577

Notes:

1. Pilot seat in FKM
2. With captured exhaust
3. With manual override



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"-1/4"	8	1400	10	-25	-25
To	3/8"-1/4"	8	1400	10	80	50

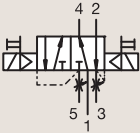


Drawing 7577

5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED

316L STAINLESS ST.
NAMUR



DUAL SOLENOIDS

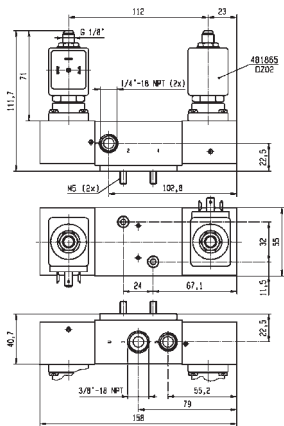
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W			DC W			
	mm	Qn l/min	bar	AC bar	DC bar	°C									°C		
3/8"- 1/4" NPT	8	1400	2	10	10	-25	80	NBR	U347N3250	4270	481000	-	-	8	8	2.1	7557
	8	1400	2	10	10	-25	80	NBR	U347N3250	2995	481865	-	-	8	9	2.1	7557

Notes:

1. Pilot seat in FKM



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"-1/4"	8	1400	10	-25	-25
To	3/8"-1/4"	8	1400	10	80	50



Drawing 7557

3/2

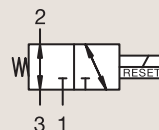
316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) MANUAL RESET



Process

316L STAINLESS ST. PIPE MOUNTING

UNIVERSAL



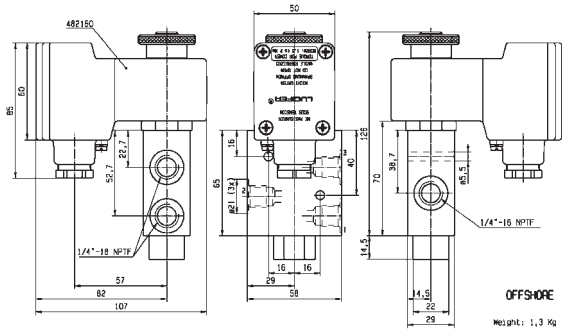
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPTF	6	680	0	10	10	-25	65	NBR	U033X5152 ₁₂	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2	7029
	6	680	0	-	10	-25	65	NBR	U033X5156 ₂	-	482870.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2/12.0	7771
	6	680	0	10	10	-25	65	NBR	U033X5156 ₂	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2/12.0	7771
	6	680	0	-	10	-25	65	NBR	U033X5156 ₂	-	492335	0-20	NEMA 4-4X	-	0.3 to 3	10.1/10.2/12.0	7771
	6	680	0	10	10	-25	65	NBR	U033X5156 ₂	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	7771
	6	680	0	10	10	-25	75	NBR	U033X51561D ₂	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	7030

Notes:

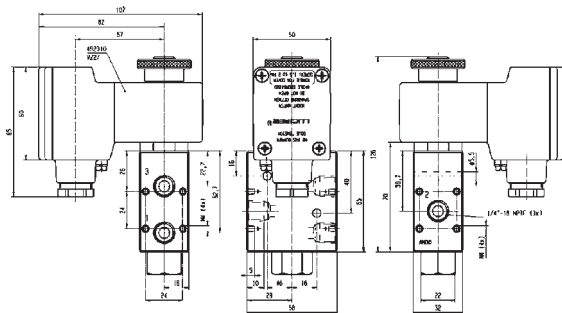
1. DC voltage only (or coil with rectifier). Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



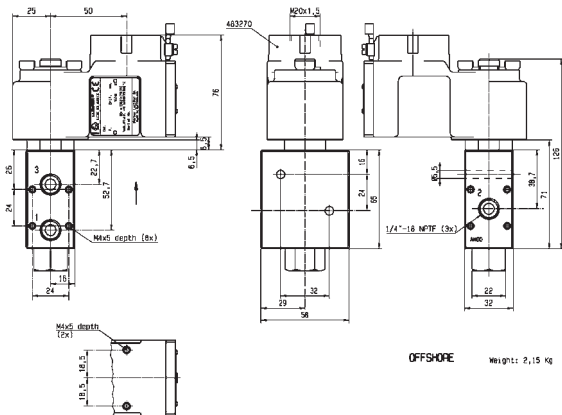
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	680	10	-25	-25
To	1/4"	6	680	10	75	65



Drawing 7029



Drawing 7771

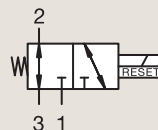


Drawing 7030

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) MANUAL RESET

316L STAINLESS ST. PIPE MOUNTING



UNIVERSAL

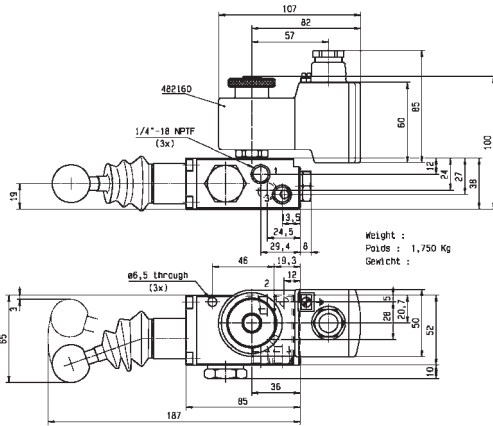
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPTF	6	560	0	10	10	-25	65	NBR	U033X5195 ₂	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2/12.0	3594
	6	560	0	10	10	-25	65	NBR	U033X5195 ₂	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	3594
	6	680	0	10	10	-25	65	NBR	U033X7156 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2	8168
	6	680	0	10	10	-25	65	NBR	U033X7156	-	496560	1-21	Ex db mb IIC T4	8	8	10.1/10.2	8168
	6	680	0	10	10	-25	65	NBR	U033X7156	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2	8168
	6	680	0	10	10	-25	65	NBR	U033X7156	-	496895	-	-	8	8	10.1/10.2	8168

Notes:

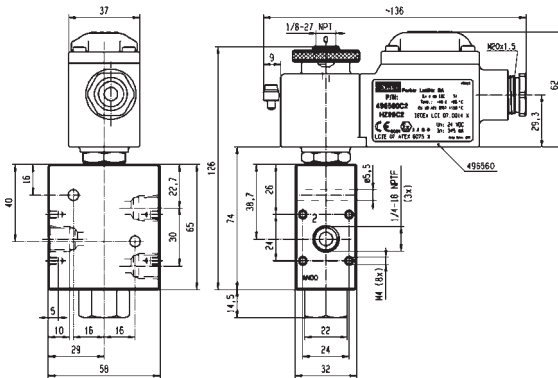
1. DC voltage only (or coil with rectifier). Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	560	10	-25	-25
To	1/4"	6	680	10	65	65



Drawing 3594

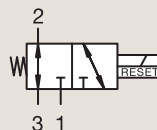


Drawing 8168

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR) MANUAL RESET

316L STAINLESS ST. PIPE MOUNTING



UNIVERSAL

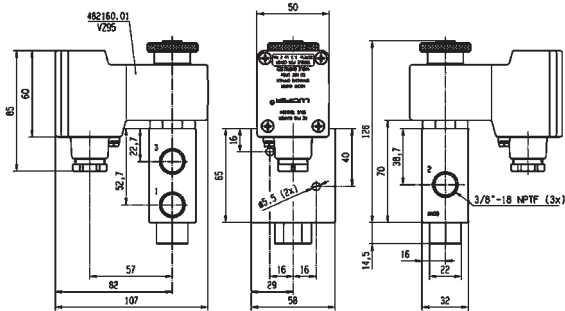
Port size	Orifice Ø 1	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8" NPTF	6	680	0	-	10	-25	65	NBR	U033X5256 ₁	-	482870.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2/12.0	7671
	6	680	0	10	10	-25	65	NBR	U033X5256 ₁	-	492310	1-21	Ex eb mb II T3 to T6	6	6	10.1/10.2/12.0	7671
	6	680	0	10	10	-25	65	NBR	U033X5256 ₁	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	7671
	6	680	0	10	10	-25	65	NBR	U033X52561D ₁	-	483270	1-21	Ex db IIC T4 to T6	8	8	11.0	7672
	6	680	0	10	10	-25	65	NBR	U033X52561D ₁	-	483270.02	1-21	Ex db IIC T4 to T6	8	8	11.0	7672

Notes:

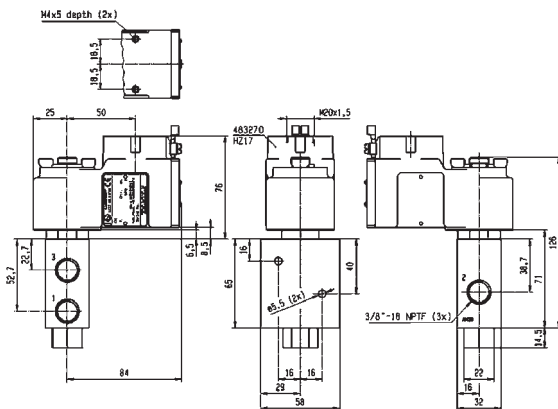
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	6	680	10	-25	-25
To	3/8"	6	680	10	65	65



Drawing 7671



Drawing 7672

ELECTROPNEUMATIC PRESSURE REGULATORS



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"



ELECTROPNEUMATIC PRESSURE REGULATORS

Lucifer® EPP4 Programmable Pressure Regulator

EPP4 is an electro pneumatic pressure regulator with integrated electronic system.

A pulsed width modulated solenoid valve controls the output pressure proportionally to an analog input signal.

Very high accuracy is guaranteed thanks to a high precision closed loop signal provided by a built in pressure sensor.



Market

Robotics
Paper industry
Machine tools
Mobile
Buildings
Textile
Instrumentation
Semi conductor



Description of Applications

Welding
Speed and brake control
Sanding
Cutting
Humidification
Tension regulation
Painting
Presses
Polishing
Adaptative suspension control



Value Propositions for the Lucifer® EPP4 Range of Proportional Pressure Regulators

- All parameters fully adjustable through the PC software Calys
- Easy to use software
- Long life expectancy
- Compact and light
- Limited inventory
- Low power
- Flexible remote display positioning
- Proven expertise of Parker, a pioneer in pressure regulation technology



calys Software for EPP Comfort

Calys is a unique software in house developed to configurate all the parameters of the EPP4 Comfort range. Calys is an option of the EPP4. To use CALYS, you need to order cable reference 496449 wich permits the communication between the EPP4 and a PC.

Calys offers many capabilities:

- It enables distributors to reduce inventory by keeping a generic EPP4 in stock and adjust it to the needs of each customer application. They can switch for example from 0-10 V to 4-20 mA, or from 0-7 bar pressure range to 0-5 bar.
- Engineers designing a pneumatic system are able to monitor precisely all the important values (electrical or pneumatical) directly on their laptop.
- After sales technicians are able to receive via email all the parameters measured by the EPP4 installed on a machine wherever its location allowing remote ma intenance operation.
- PID regulation parameters can be adjusted with Calys to match required regulator response (like slow or reactive).



To download free Calys software click on www.parker.com/FCDE/Support

ELECTROPNEUMATIC PRESSURE REGULATORS



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INTRODUCTION

Description Operation

The EPP4 Series is a family of electrically remote-controlled pneumatic pressure regulators with closed loop integrated electronic control.

It allows regulating the outlet pressure proportionally to an electrical control signal.

The EPP4 regulator comprises a traditional servo-operated pneumatic pressure regulator, where the pilot chamber is fed by one or the other of two pulse width modulated 2-way solenoid valves.

The pressure sensor measures the outlet pressure of the regulator and provides a feedback signal to the controller.

Any difference between the control signal and the feedback signal is converted to a digital signal to energise the coil of one or the other 2-way valves to correct the position of the regulator.

The control signal can be a voltage (0-10 V) or a current (4-20 mA). The inlet of the "Filling Valve" is connected directly to the main inlet P of the

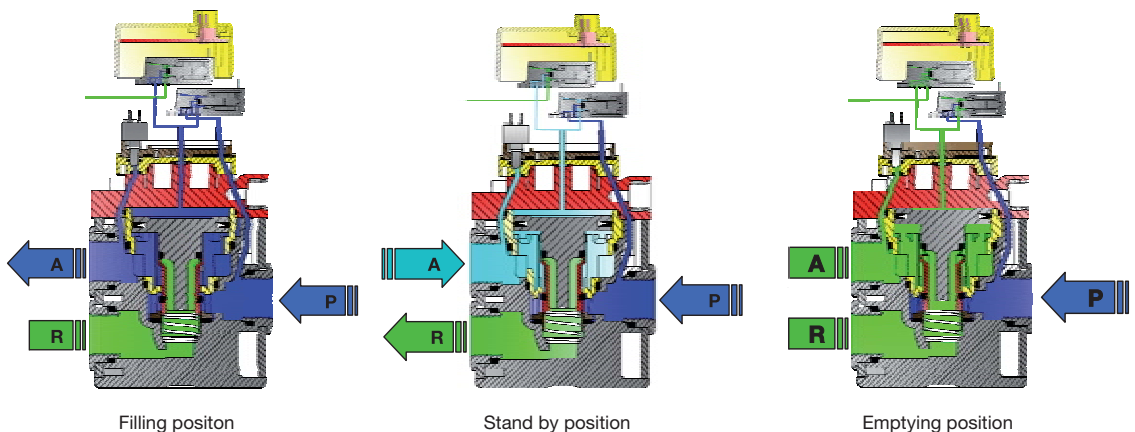
regulator; when energised this valve will fill the servo-chamber for increasing the pressure at the outlet A of the regulator.

When the other "exhaust valve" is energised (reduction of pressure at the outlet A of the regulator), the pressure of the servo-chamber will be exhausted through a discharge orifice located between the cover and the body and directly fed to the atmosphere without silencer.

The exhaust of the main regulated pressure will be made through the quick exhaust R.

The use of a conventional silencer is recommended. Both solenoid valves assure the Filling or Emptying of the servo-chamber in order to increase or decrease the pressure at the outlet of the regulator.

In rest position of the valves all ports are blocked.



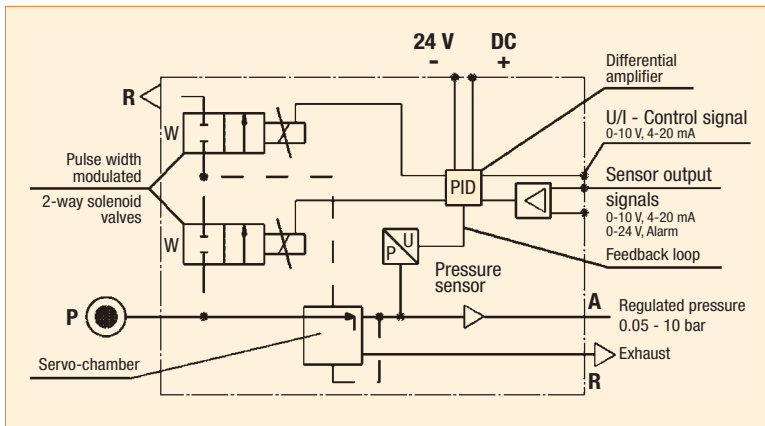
Block Diagram

The controller receives both the control signal (set pressure) and the feedback signal from the sensor (outlet pressure).

Any difference between the two amplifier inputs results in a corresponding output which drives the appropriate 2-way pulse width modulated solenoid valve so that the pilot piston moves to correct the pressure.

The same feedback signal from the sensor is used for the output feedback in voltage and current.

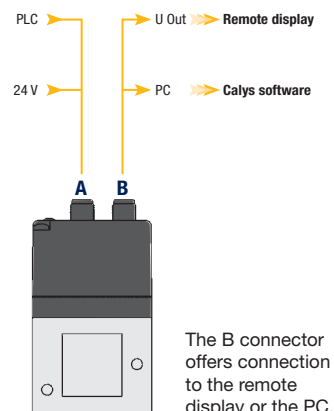
The digital signal (alarm) is activated when the conditions (out of pressure or time tolerance) are met.



EPP4 possible executions : Basic and Comfort

EPP4 Basic and Comfort ranges share the same reliable mechanical parts. Proportional regulation is also identical for the two different executions, giving the same characteristics for hysteresis or precision for instance.

Comfort range regulators have a second M12 connector, that can be used to connect a remote display showing the current regulated pressure, or a PC to easily set the regulation's parameters. These are the key feature options for a comfortable use.



LUCIFER® EPP4 BASIC 1/4" & 1/2"

TECHNICAL DATA

Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"

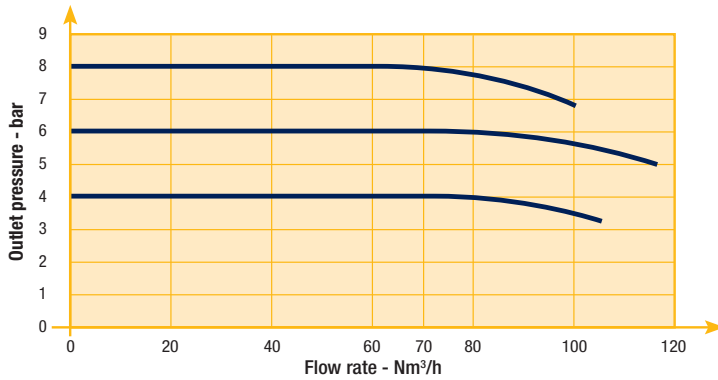
	Basic 1/4"	Basic 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases Recommended filtration: 50 µm	
Temperature range:	Ambient: 0°C to +50°C Fluid: 0°C to +50°C	
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 to 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15% (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Max. flow: Indicative response time: With a volume of 330 cm³ at the outlet of the regulator	70 m³/h	150 m³/h
Filling 2 to 4 bar:	50 msec	60 msec
Filling 2 to 8 bar:	100 msec	120 msec
Emptying 4 to 2 bar:	70 msec	90 msec
Emptying 8 to 2 bar:	130 msec	190 msec
Safety position:	In case of control signal failure or if it is less than 50mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 4 pin; 4 x 0.34 mm²	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408038, 408014" and appendix supplied with the product.	

Note: Parker reserves the right to change specifications without notification.

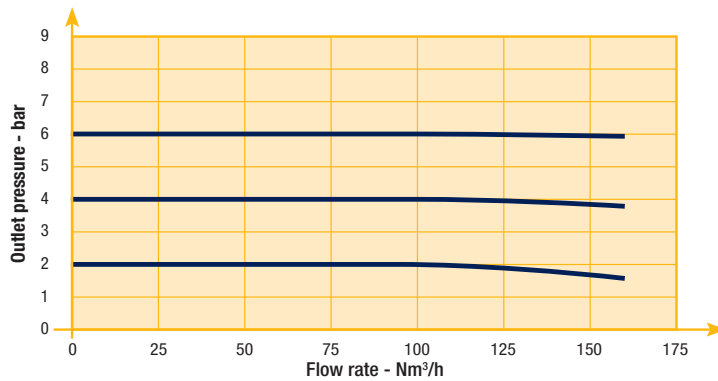
LUCIFER® EPP4 BASIC 1/4" & 1/2"

FLOW CURVES

Flow Curve Basic 1/4"



Flow Curve Basic 1/2"



LUCIFER® EPP4 BASIC 1/4" & 1/2"

REFERENCES

Codes	Pipe	Pressure Range (bar)		Control Signal (see options)	Drawing Number
P4BG2001A001	G 1/4"	0	4 bar	4 - 20 mA	1
P4BG2001A002	G 1/4"	0	10 bar	0 - 10 V	1
P4BG2001A003	G 1/4"	0	10 bar	4 - 20 mA	1
P4BG2001A004	G 1/4"	0	6 bar	0 - 10 V	1
P4BG2001A005	G 1/4"	0	6 bar	4 - 20 mA	1
P4BG2001A006	G 1/4"	0	5 bar	0 - 10 V	1
P4BG2001A007	G 1/4"	0	5 bar	4 - 20 mA	1
P4BG2001A008	G 1/4"	0	7 bar	0 - 10 V	1
P4BG2001A009	G 1/4"	0	7 bar	4 - 20 mA	1
P4BG2003A002 *	G 1/4"	0	10 bar	0 - 10 V	1
P4BG2003A003 *	G 1/4"	0	10 bar	4 - 20 mA	1
P4BG4001A002	G 1/2"	0	10 bar	0 - 10 V	2
P4BG4001A003	G 1/2"	0	10 bar	4 - 20 mA	2
P4BG4001A004	G 1/2"	0	6 bar	0 - 10 V	2
P4BG4001A005	G 1/2"	0	6 bar	4 - 20 mA	2
P4BG4001A006	G 1/2"	0	5 bar	0 - 10 V	2
P4BG4001A007	G 1/2"	0	5 bar	4 - 20 mA	2
P4BG4001A008	G 1/2"	0	7 bar	0 - 10 V	2
P4BG4001A009	G 1/2"	0	7 bar	4 - 20 mA	2
P4BG4004A010 ***	G 1/2"	0	4 bar	0 - 10 V	2
P4BG4051A002 **	G 1/2"	0	10 bar	4 - 20 mA	2
P4BN2001A002	NPT 1/4"	0	10 bar	0 - 10 V	2
P4BN2001A003	NPT 1/4"	0	10 bar	4 - 20 mA	2
P4BN4001A002	NPT 1/2"	0	10 bar	0 - 10 V	2
P4BN4001A003	NPT 1/2"	0	10 bar	4 - 20 mA	2

* Integrated pilot exhaust

** O2

*** External pressure supply



LUCIFER® EPP4 COMFORT 1/4" & 1/2"

Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"

TECHNICAL DATA

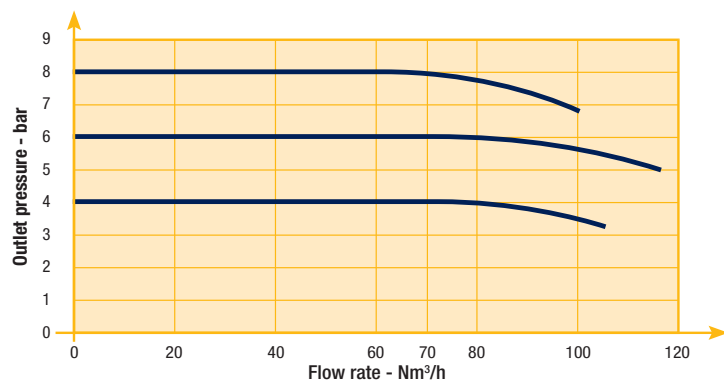
	Comfort 1/4"	Comfort 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 µm	
Temperature range:	Ambient: 0°C to +50 °C Fluid: 0°C to +50 °C	
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 bis 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)
Max. flow:	70 m³/h	150 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator	
Filling 2 to 4 bar :	50 msec	60 msec
Filling 2 to 8 bar:	100 msec	120 msec
Emptying 4 to 2 bar:	70 msec	90 msec
Emptying 8 to 2 bar:	130 msec	190 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408128, 408134" and appendix supplied with the product.	

Note: Parker reserves the right to change specifications without notification.

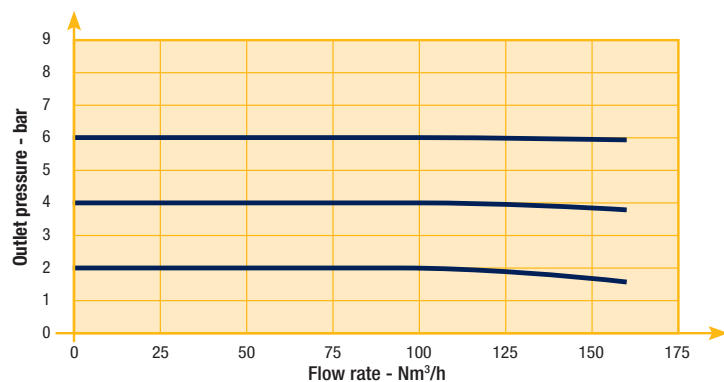
LUCIFER® EPP4 COMFORT 1/4" & 1/2"

Flow Curves

Flow Curve 1/4"



Flow Curve 1/2"



LUCIFER® EPP4 COMFORT 1/4" & 1/2"

REFERENCES

Codes	Pipe	Pressure Range (bar)		Control Signal (see options)	Display	Drawing Number
P4CG2001C001	G 1/4	0	10	0-10 V	-	3
P4CG2001C002	G 1/4	0	10	4-20 mA	-	3
P4CG2001C005	G 1/4	0	7	0-10 V	-	3
P4CG2001C006	G 1/4	0	7	4-20 mA	-	3
P4CG2002C001	G 1/4	0	10	0-10 V	included	3
P4CG2002C002	G 1/4	0	10	4-20 mA	included	3
P4CG2003C001 *	G 1/4	0	10	0-10 V	-	3
P4CG2003C002 *	G 1/4	0	10	4-20 mA	-	3
P4CG2002C007	G 1/4	0	7	0-10 V	-	3
P4CG2002C008	G 1/4	0	7	4-20 mA	-	3
P4CN2001C001	1/4 NPT	0	10	0-10 V	-	3
P4CN2001C002	1/4 NPT	0	10	4-20 mA	-	3
P4CN2002C001	1/4 NPT	0	10	0-10 V	included	3
P4CN2002C002	1/4 NPT	0	10	4-20 mA	included	3
P4CG4001C001	G 1/2	0	10	0-10 V	-	4
P4CG4001C002	G 1/2	0	10	4-20 mA	-	4
P4CG4001C005	G 1/2	0	7	0-10 V	-	4
P4CG4001C006	G 1/2	0	7	4-20 mA	-	4
P4CG4002C001	G 1/2	0	10	0-10 V	included	4
P4CG4002C002	G 1/2	0	10	4-20 mA	included	4
P4CG4002C005	G 1/2	0	7	0-10 V	-	4
P4CG4002C006	G 1/2	0	7	4-20 mA	-	4
P4CG4051C001 **	G 1/2	0	10	0-10 V	-	4
P4CG4051C002 **	G 1/2	0	10	4-20 mA	-	4
P4CN4001C001	1/2 NPT	0	10	0-10 V	-	4
P4CN4001C002	1/2 NPT	0	10	4-20 mA	-	4
P4CN4002C001	1/2 NPT	0	10	0-10 V	included	4
P4CN4002C002	1/2 NPT	0	10	4-20 mA	included	4

* Integrated pilot exhaust

** O2



LUCIFER® EPP4 COMFORT 1/2"HP, 1" & 2"

Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"

TECHNICAL DATA

	Comfort 1/2" HP	Comfort 1"	Comfort 2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 µm		
Temperature range:	Ambient: 0°C to +50°C Fluid: 0°C to +50°C		
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 21 bar	1 to 21 bar	1 to 12 bar
Outlet pressure range:	0.05 to 20 bar	0.05 to 20 bar	0.05 to 10 bar
Hysteresis:	≤ 100 mbar if P inlet ≤ 10 bar ≤ 200 mbar if P inlet > 10 bar		
Air consumption at constant control signal:	0		
Supply voltage:	24V DC ± 15%		
Power consumption:	Max. 6 W with 24 V DC and constant changes of the control signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA		
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)		
Max. flow:	150 m³/h	1 000 m³/h	2 700 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator		
Filling 2 to 8 bar:	120 msec	250 msec	250 msec
Emptying 8 to 2 bar:	190 msec	400 msec	400 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Million changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Degree of protection:	IP 65		
Assembly:	Silicone free		
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See our "408 193" and appendix supplied with the product.		

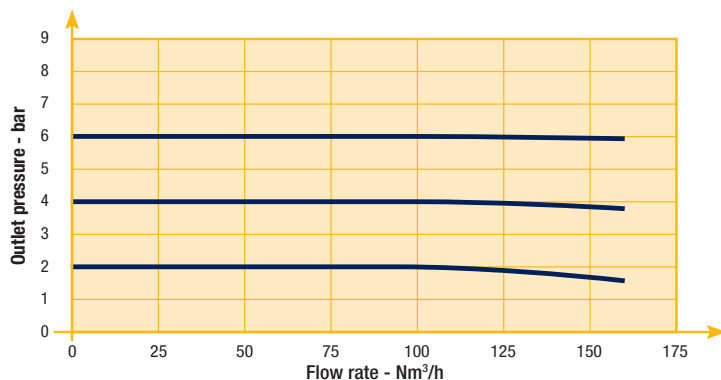
Note: Parker reserves the right to change specifications without notification.

LUCIFER® EPP4 COMFORT 1/2"HP, 1" & 2"

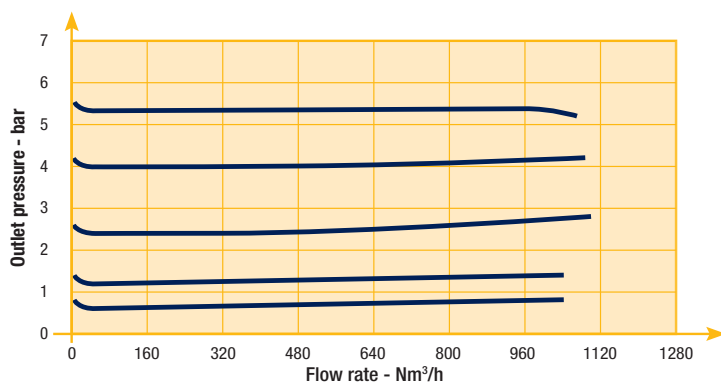
FLOW CURVES



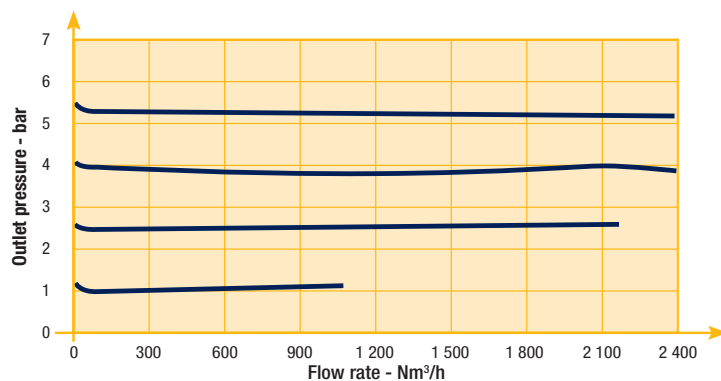
Flow Curve 1/2"HP



Flow Curve 1"



Flow Curve 2"



LUCIFER® EPP4 COMFORT 1/2"HP

REFERENCES

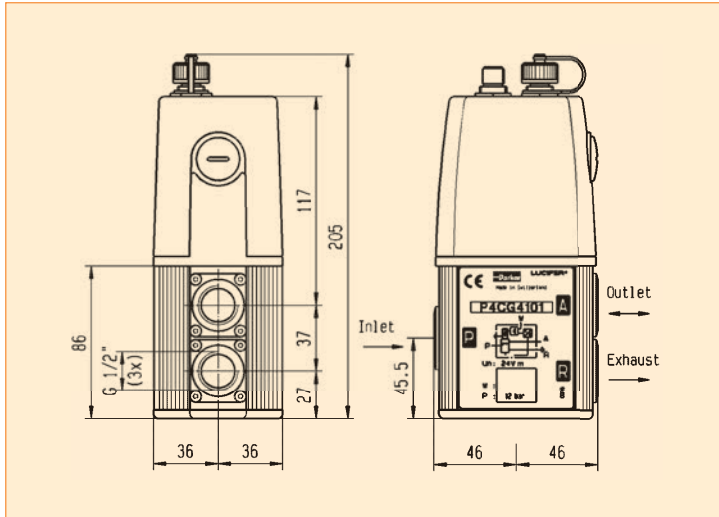
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4101D001	G1/2	15	0	12	0-10 V	5
P4CG4201D005	G1/2	21	0	16	0-10 V	6
P4CG4201D003	G1/2	21	0	20	0-10 V	6
P4CG4201D004	G1/2	21	0	20	4-20 mA	6

Other specific settings or specialties are available, please contact us.

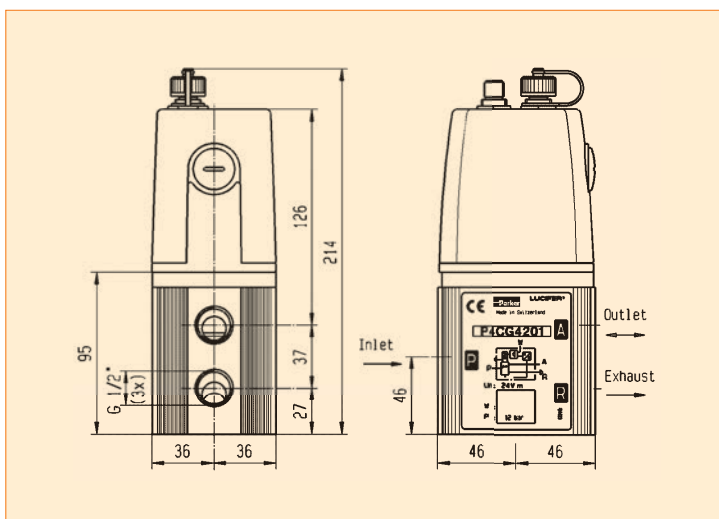


LUCIFER® EPP4 COMFORT 1/2"HP

DIMENSIONS DRAWINGS



Drawing 5



Drawing 6



LUCIFER® EPP4 COMFORT 1" & 2"

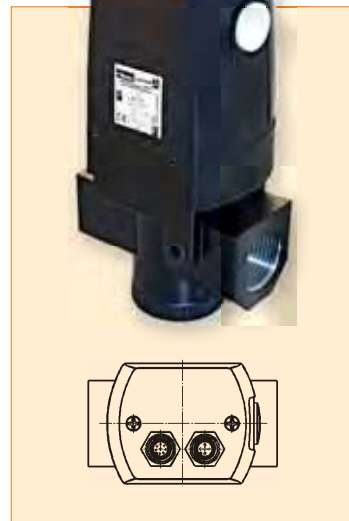
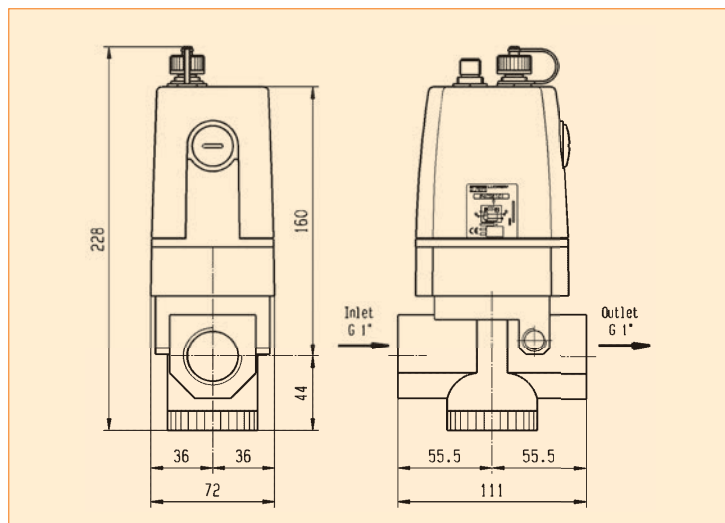
REFERENCES

Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG6101C009	G1	12	0	3.5	4-20 mA	7
P4CG6101C011	G1	12	0	5.0	0-10 V	7
P4CG6101C010	G1	12	0	6.0	4-20 mA	7
P4CG6101C001	G1	12	0	10	0-10 V	7
P4CG6101C002	G1	12	0	10	4-20 mA	7
P4CG6201D001	G1	21	0	12	0-10 V	7
P4CG6201D003	G1	21	0	20	0-10 V	7
P4CG9101C012	G2	12	0	4.0	4-20 mA	8
P4CG9101C010	G2	12	0	6.0	4-20 mA	8
P4CG9101C001	G2	12	0	10	0-10 V	8
P4CG9101C002	G2	12	0	10	4-20 mA	8

Other specific settings or specialties are available, please contact us.

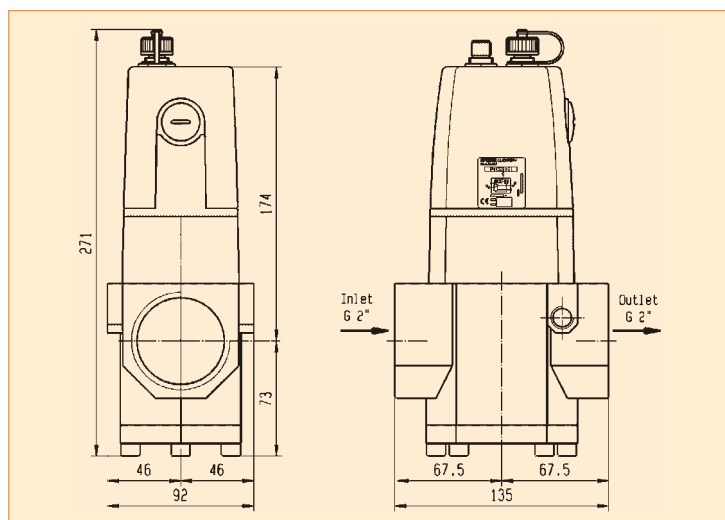
LUCIFER® EPP4 COMFORT 1" & 2"

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"



Drawing 7

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"



Drawing 8

LUCIFER® EPP4 COMFORT 1/2", 1" & 2" ATEX



Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"

TECHNICAL DATA

	Comfort 1/2" ATEX	Comfort 1" ATEX	Comfort 2" ATEX
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 µm		
Temperature range:	Ambient: 0°C to +50°C Fluid: 0°C to +50°C		
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	Inlet pressure range: 1 to 12 bar		
Outlet pressure range:	Outlet pressure range: 0.05 to 10 bar		
Hysteresis:	≤ 100 mbar		
Air consumption at constant control signal:	0		
ATEX certification:	Ex II 3 G/D Ex nA IIC T4 Gc Ex tc IIBB T130°C Dc		
Supply voltage:	24V DC ± 15 %		
Power consumption:	Max. 6 W with 24 V DC and constant changes of the control signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA		
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)	
	Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable		
Max. flow:	150 m³/h	1 000 m³/h	2 700 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator		
Filling 2 to 8 bar:	120 msec	250 msec	250 msec
Emptying 8 to 2 bar:	190 msec	400 msec	400 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Million changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Degree of protection:	IP 54		
Assembly:	Silicone free		
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See our "408 283" and appendix supplied with the product.		

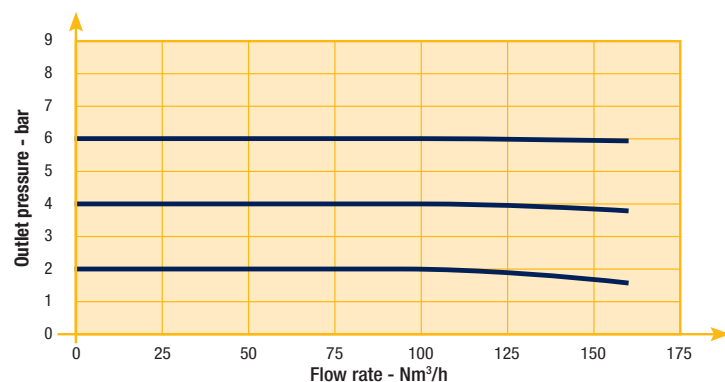
Note: Parker reserves the right to change specifications without notification.

LUCIFER® EPP4 COMFORT 1/2", 1" & 2" ATEX

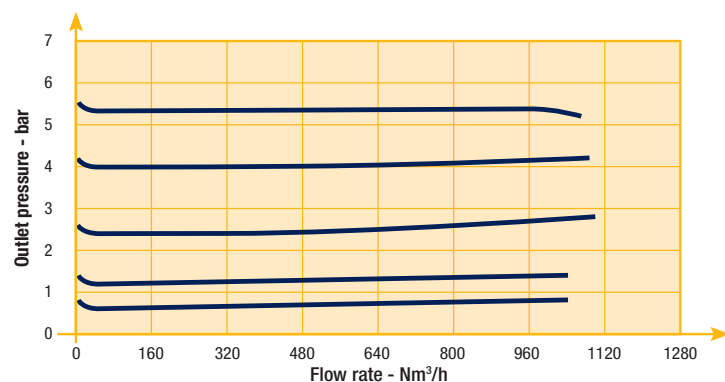


FLOW CURVES

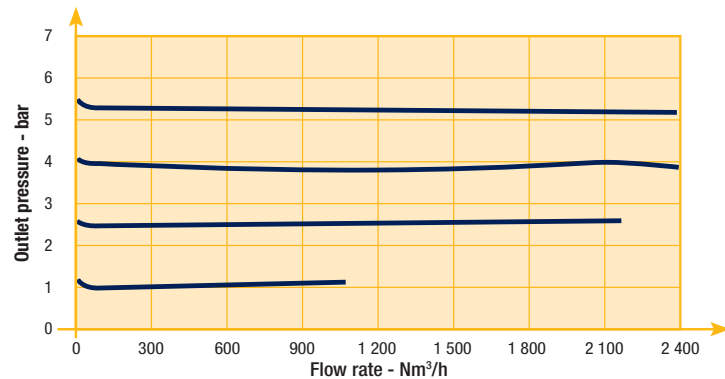
Flow Curve 1/2"



Flow Curve 1"



Flow Curve 2"



LUCIFER® EPP4 COMFORT 1/2" ATEX

REFERENCES

Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4461C001	G1/2	12	0	10	0-10 V	9
P4CG4461C002	G1/2	12	0	10	4-20 mA	9
P4CG4465C001 **	G1/2	12	0	10	0-10 V	9
P4CG4465C002 **	G1/2	12	0	10	4-20 mA	9

** O2

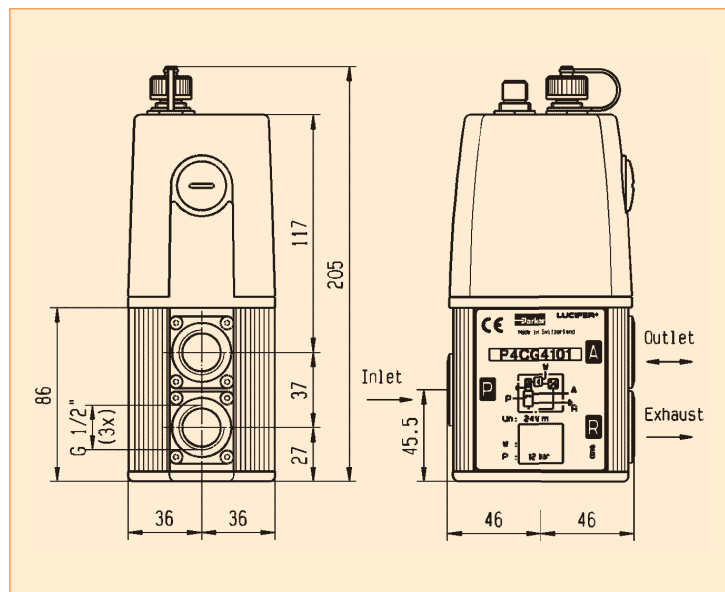
Other specific settings or specialties are available, please contact us.



LUCIFER® EPP4 COMFORT 1/2" ATEX



DIMENSIONS DRAWINGS



Drawing 9

LUCIFER® EPP4 COMFORT 1" & 2" ATEX



REFERENCES

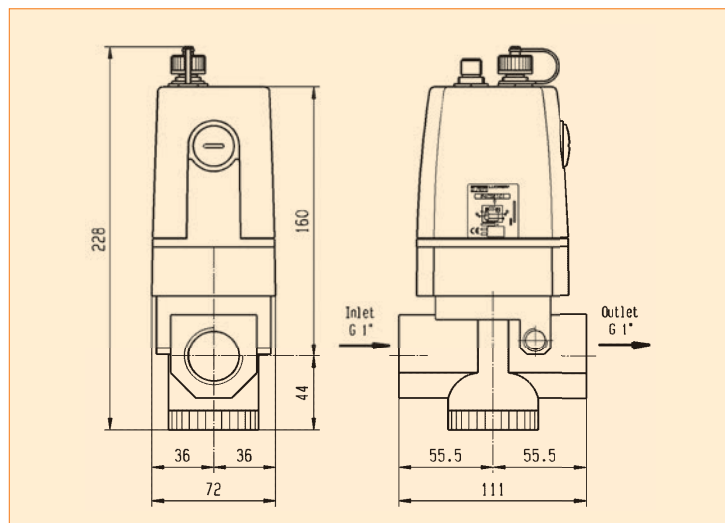
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG6161C001	G1	12	0	10	0-10 V	11
P4CG6161C002	G1	12	0	10	4-20 mA	11
P4CG9161C001	G2	12	0	10	0-10 V	12
P4CG9161C002	G2	12	0	10	4-20 mA	12

Other specific settings or specialties are available, please contact us.

LUCIFER® EPP4 COMFORT 1" & 2" ATEX

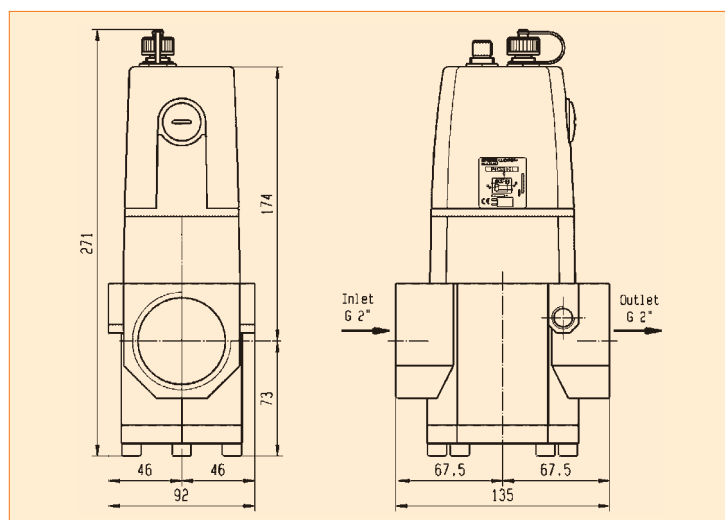


DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"



Drawing 11

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"



Drawing 12

LUCIFER® EPP4 ACCESSORIES

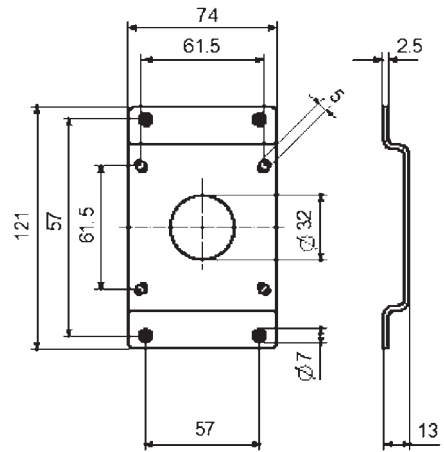
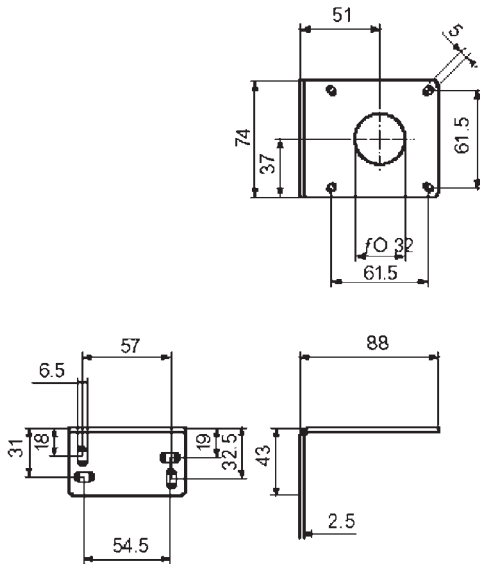
MOUNTING BRACKETS FOR EPP4 1/4" BASIC / COMFORT



This mounting bracket is delivered as a standard with all EPP4 1/4".

LUCIFER® EPP4 ACCESSORIES

MOUNTING BRACKETS FOR EPP4 1/2" BASIC / COMFORT



Order reference 491367



Order reference 491366

LUCIFER® EPP4 ACCESSORIES

POWER SUPPLY/CONTROL SIGNAL CABLE FOR BASIC AND COMFORT VERSIONS.

Cable for Basic EPP4

- 2 m cable with moulded straight M12-4 pole

Order Ref. P8L-MC04A2A-M12



Cable for Comfort EPP4

- 2 m cable with moulded straight M12-8 pole

Order Reference 496796



LUCIFER® EPP4 COMFORT ACCESSORIES

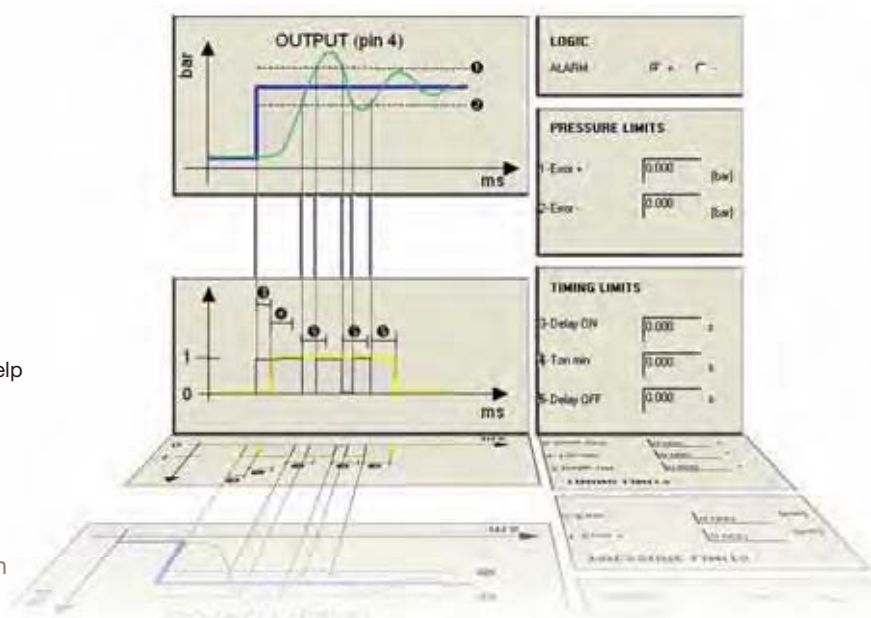
calys SOFTWARE

Calys is a unique software in house developed to configure all the parameters of the EPP4 Comfort range. Calys is an option of the EPP4. A specific cable is needed for the communication between the EPP4 and a PC.



Calys offers many capabilities:

- Live monitoring (control signal, regulated pressure, supply voltage,...)
- Recording of the main parameters (control signal, regulated pressure, supply voltage,...) in an Excel file
- Free calibration for the inputs and outputs
- Adjustable alarm (positive-negative, pressure limits, delays)
- Configuration files easy to duplicate
- Complete and interactive help file
- Data in 4 different pressure units
- Menus in 4 languages (English, German, French and Italian)



**Specific communication cable PC-EPP4
with RS232 and USB connection**

Order Reference 496449

This option is for safe area only.

To download free Calys software click on
www.parker.com/FCDE/Support

LUCIFER® EPP4 COMFORT ACCESSORIES

REMOTE DISPLAY

This option includes the Remote Display and 1.5 meter connecting cable.

Connected to the pressure regulator, it offers flexible monitoring.

This option only works with EPP4 0-10 bar.

Compact and highly readable remote LED display:

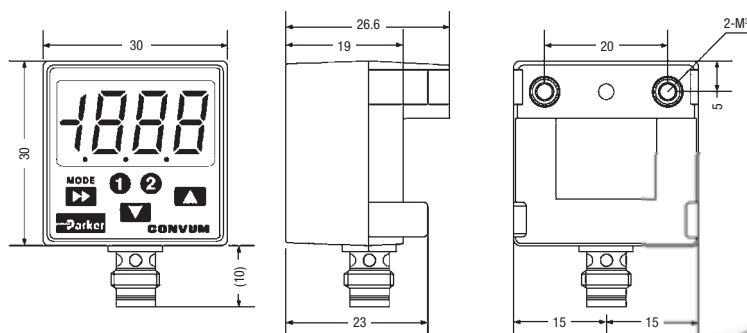
- Bar and PSI scales
- Security lock
- 1.5 m cable
- Mounting brackets

Order the Remote Display under reference 496490

This option is for safe area only.



PANEL MOUNTING KIT



Order the Panel Mounting Kit under reference 496601

A COMPLETE RANGE OF COILS, HOUSINGS AND ELECTRICAL PARTS FOR SOLENOID VALVES



DEFINITIONS

HOUSINGS OR COIL ASSEMBLY KITS, COILS AND ELECTRICAL PARTS



Housing:

We define a **housing** as the combination of the fixing elements including the nameplate ①, the cover ② or the subplate ⑥ and the envelope itself ④ or ⑤ which protects the coil and its electrical components. The housings may be made of metal or plastic material.

Coil assembly kit:

The coil assembly kit ⑦ or ⑨ is the set comprising a plate, washer and nut. Sometimes coil assembly kits consist only of a nut or a special fixing device.

Coil:

This consists of the winding and its plastic moulding. There are three different types of coils distinguished by their shape and dimensions: 40 mm ③, 32 mm ⑧ and 22 mm ⑩.

Electric part:

The electric part is the set comprising the housing, the assembly kit and the coil.

Attention:

Any Parker FCDE coil or electrical part may be energised only when mounted on a valve. Otherwise there is a risk of damaging the product and its surroundings (overheating, explosion, fire, etc.).

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INDEX FOR EXPLOSION PROOF ELECTRICAL PARTS

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
496637	1.2	Explosion proof electrical part "nAc nCc", 22 mm, double frequency	3.0	3.0	-20°C to +50°C	-	IP65	II 3 D Ex tc IIC T 95°C	485
495880	2.0/2.2	Explosion proof electrical part "nAc nCc", 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3	489
496155	2.0/2.2	Explosion proof increased safety electrical part "nAc nCc", 50 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	491
495915	4.0	Explosion proof increased safety electrical part "nAc nCc", 50 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	490
495870	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486
495875	3.0	Explosion proof electrical part "nAc nCc", 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	488
496110	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	-	9.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486
495865	1.1	Explosion proof electrical part "nAc nCc", low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	484
496125	6.0	Explosion proof electrical part "nAc nCc", low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5/T6	487
492670	2.0/2.1	Explosion proof encapsulated electrical part "mb", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4	495
482605	1.1	Explosion proof encapsulated electrical part "mb", 32 mm	5.0	4.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
482606	1.1	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
492070	2.0/2.1	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50 mm	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	496
HZ10	2.0/2.1	Explosion proof encapsulated electrical part "mb", double frequency	8.0	8.0	-40°C to +85°C	-	IP65	II 2 G - Ex mb IIC T3/T4/T5	497
HZ11	2.0/2.2	Explosion proof encapsulated electrical part "mb", double frequency	14.0	14	-40°C to +85°C	-	IP65	II 2 G - Ex mb IIC T3/T4/T5	498
483270	11.0	Flame proof electrical part "db", 50 mm	8.0	8.0	-40°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	492
497105	10.3	Flame proof electrical part "db", 50 mm	8.0	8.0	-50°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	493
493640	2.0/2.1	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	503
495905	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	500
496560	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	501
496800	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	502
495900	6.0	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	499
496555	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	501
496700	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	502
494040	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +90°C	-	IP67	II 2 G Ex eb IIC T3/T4	504
483371	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	504
492190	2.0/2.1	Explosion proof increased safety and encapsulated elect. part "eb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	507
492310	10.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T4/T5	505
492210	9.0	Explosion proof increased safety and encapsulated electrical part "eb", " Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	506
495910	8.0	Explosion proof intrinsically safe electrical part "ia", "booster", 37 mm	0.3 to 1.2	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	509
496565	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 37 mm	0.77 to 2.58	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	510
483580.01	7.0	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	508
488650.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	513
488660.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP67	II 1 G Ex ia IIC T6	514
488670.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3	-	-40°C to +65°C	-	IP65	II 1 G Ex ia IIC T6	515
492965.01	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 50 mm	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	511
482870.01	12.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	512
490885	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	513
490890	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	514
492335	12.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	512

LIST OF COIL GROUPS

Parker coils and electrical parts are classified by groups determining their compatibility with Parker solenoid valves.

Group	For application with
1.1	Standard valves or on 2000 Series with standard pilot
1.2	Standard valves or on 2000 Series for high flow
1.3	Standard valves or on 2000 Series of W coil
2.0	Standard valves or on 7000 Series with standard pilot
2.1	Standard valves or on 7000 Series, for coils 8 - 9 W
2.2	Standard valves or on 7000 Series, for coils 14 W
3.0	Standard valves or on 7000 Series with reduced power
4.0	Standard valves or on 7000 Series, for bistable (Impulse) coils or electrical parts
6.0	Special valves "97" or on 7000 Series, for Intrinsically safe coils or electrical parts
7.0	Special valves "90", for coils and intrinsically safe electrical parts
8.0	Special valves "97" or on 7000 Series, for Intrinsically safe coils or electrical parts with booster
9.0	Special valves "xx" or on 9000 Series, for Intrinsically safe coils or electrical parts with booster
10.1	Standard valves or on 9000 Series with standard pilot
10.2	Standard valves or on 9000 Series "db mb"
10.3	Special valves or on 8000 Series "d"
11.0	Standard valves or on 9000 Series "1D"
12.0	Standard valves or on 9000 Series with manual reset
13.0	Special valves or on 7000 Series for Transportation
14.1	Special valves or on 7000 Series for Oil Burners
14.2	Special valves or on 7000 Series for Oil Burners
14.3	Special valves or on 7000 Series for Oil Burners
20.1	Standard valves or on 7000 Series for Z-Y coil
20.2	Standard valves or on 7000 Series for Z-Y "High Power" coil
21.0	Standard valves or on 7000 Series for J-B coil
22.0	Standard valves for KP-KT-KH coil
23.0	Standard valves for XP-XT coil for Oil Burners
24.0	Standard valves for Liquipure coils for Beverage Dispensing

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Level of protection "db"	492
Level of protection "mb"	494
Level of protection "db mb"	499
Level of protection "eb"	504
Level of protection "eb mb"	505
Level of protection "ia"	508

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COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard			Double frequency		
Ref. (without DIN plug)			481865			483510		
Ref. (with DIN plug)			482725			482635		
Coil Group			2.0 / 2.1					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A					
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	Pn (hot)	9 W			-		
		P (cold) 20°C	12 W			-		
	AC	Pn (holding)	8 W			9 W		
		Attraction cold	26 VA (9 W)			32 VA (10 W)		
Weight			130 g (without plug)					
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50	A2	24	C2	24/50, 24/60	P0
			48/50	A4	48	C4	48/50, 48/60	S4
			110/50	A5	110	C5	110-115/50, 120/60	S5
			220-230/50	3D			220-240/50, 240/60	S6

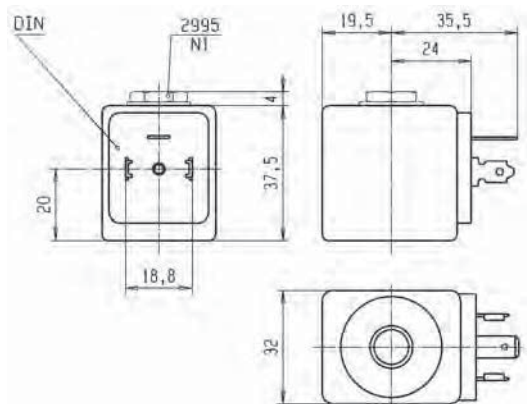
To Order a Coil choose Coil Ref + Voltage Code. example: 481865 for 24 VDC = 481865C2

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



COIL GROUP
2.0/2.1
2.2

COILS FOR DIN PLUG CONNECTION



HIGH TEMPERATURE COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			High temperature			High temp. + high power				
Ref. (without DIN plug)			492453			492425				
Ref. (with DIN plug)			492726			492727				
Coil Group			2.0 / 2.1			2.0 / 2.2				
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).							
Class of insulation			H 180°C							
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A							
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.							
Elect. Power	DC	Pn (hot)	9 W			14 W				
		P (cold) 20°C	12 W			21 W				
	AC	Pn (holding)	8 W			14 W				
		Attraction cold	26 VA (9 W)			55 VA (18 W)				
Weight			130 g (without plug)							
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	12	C1	24/50	A2	24	C2
			48/50	A4	24	C2	110/50	A5		
			110/50	A5	48	C4	230/50	F4		
			220/50-230/50	3D	110	C5				

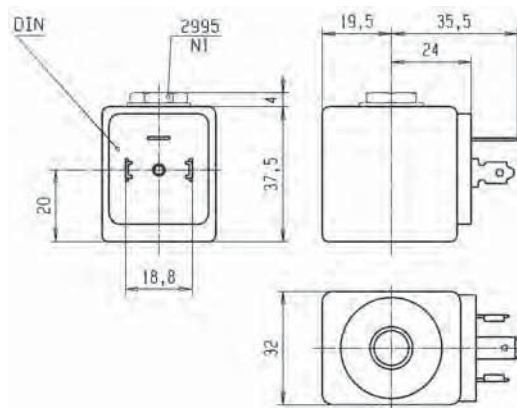
To Order a Coil choose Coil Ref + Voltage Code, example: 492453 for 24 VDC= **492453C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



REDUCED POWER COIL 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Reduced power		
Ref. (without DIN plug)			482730		
Ref. (with DIN plug)			482735		
Coil Group			3.0		
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).		
Class of insulation			F 155°C		
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A		
Ambient temperature			-40°C to +50°C		
			The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	7 W		
		P (cold) 20°C	9 W		
	AC	Pn (holding)	6 W		
		Attraction cold	20 VA (7 W)		
		Weight			130 g (without plug)
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		48/50	A4	24	C2
		220-230/50	3D	48	C4

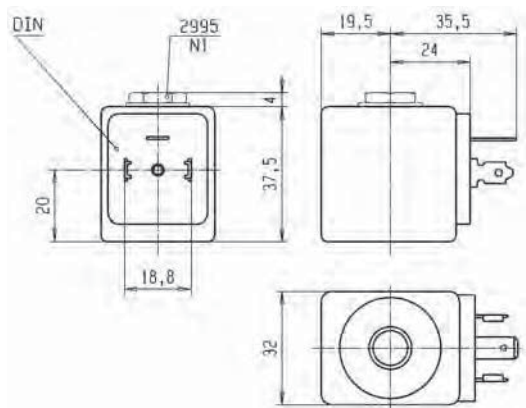
To Order a Coil choose Coil Ref + Voltage Code, example: 482730 for 24 VDC = **482730C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



COIL GROUP

6.0

COILS FOR
DIN PLUG CONNECTION

LOW POWER COIL 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Miniwatt
Reference (without DIN plug)			482740
Reference (with DIN plug)			482745
Coil Group			6.0
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).
Class of insulation			F 155°C
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.
Elect. Power	DC	Pn (hot)	1.6 W
		P (cold) 20°C	2.1 W
	AC	Pn (holding)	-
		Attraction cold	-
Weight			130 g (without plug)
Voltages "Un"			VDCCode
-10% to +10% of the Un			24C2
			48C4
			110C5

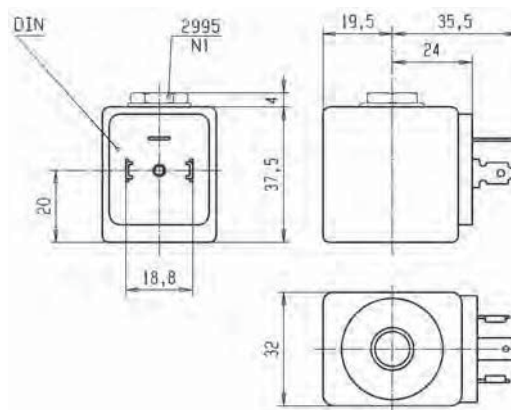
To Order a Coil choose Coil Ref + Voltage Code, example: 482740 for 24 VDC = **482740C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



UL COIL 32 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection

- simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section)



Specification			UL-recognized coil - UL File E200N - designation AMIF		
Reference (without DIN plug)			491514		
Coil Group			2.0 / 2.1		
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).		
Class of insulation			F (155°C)		
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A		
Ambient temperature			-40°C to 50°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	-	12 W	
		P (cold) 20°C	-	16 W	
	AC	Pn (holding)	11 W	-	
		Attraction cold	40 VA (13 W)	-	
Weight			130 g (without plug)		
Voltages "Un"		VAC/Hz	Code	VDC	Code
- 15% to +10% of the Un		110/50-120/60 220/50-240/60	P3 Q3	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: 491514 for 24 VDC = **491514C2**

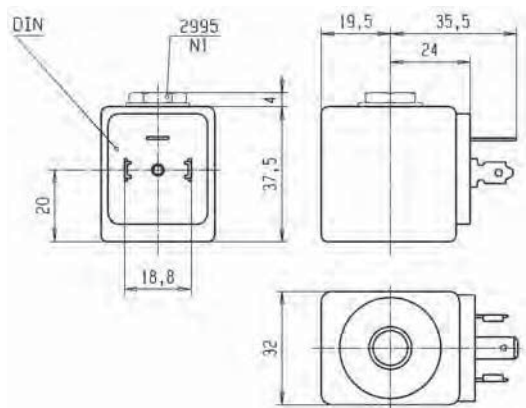
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit

Ref. 2995 with non UL valve and Ref. 2995.03 with UL valve correspond to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



COIL GROUP

14.2

COILS FOR
DIN PLUG CONNECTION

UL COIL 32 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Coil for oil burner - UL recognized	
Reference (without DIN plug)			483764	
Coil group			14.2	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			With DIN 43650 A Plug	
Ambient temperature			-40°C to 50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	9 W	
		Attraction cold	-	
Weight			138 g	
Voltages "Un"			VAC/Hz	Code
- 15% to +10% of the Un			240/50-60	Q1
			110/50-115/60	Q9
			230/50-240/60	T1

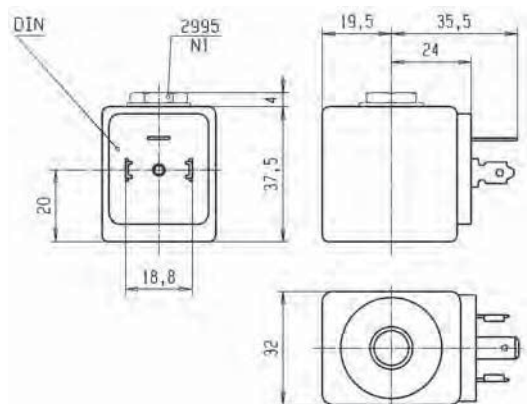
To Order a Coil choose Coil Ref + Voltage Code, example: 483764 for 240/50-60 = **483764Q1**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil - voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



COIL 32 mm FOR JET VALVES

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section)



Specification			32 mm coil 14 W			
Reference			483816			
Coil Group			2.2			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	14 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	14 W			
		Attraction cold	-			
Weight			160 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	24 V	C2

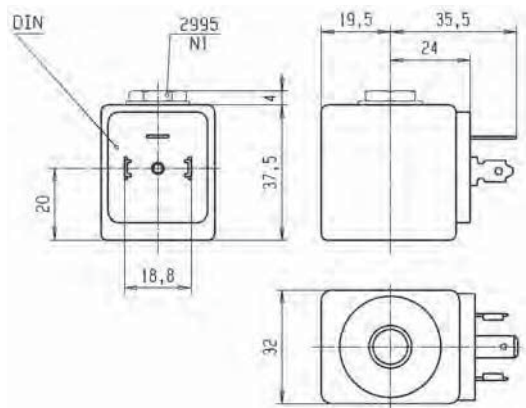
To Order a Coil choose Coil Ref + Voltage Code, example: 483816 for 24 VDC = **483816C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



COILS FOR
DIN PLUG CONNECTION

COILS 22 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Low power			High power			
Ref. (without DIN plug)			488980			481180			
Ref. (with DIN plug)			481045			481530			
Coil Group			1.1						
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).						
Class of insulation			F 155°C						
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.						
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.						
Elect. Power	DC	Pn (hot)	2.5 W			5 W			
		P (cold) 20°C	3 W			6.5 W			
	AC	Pn (holding)	2 W			4 W			
		Attraction cold	5.7 VA (2.5 W)			8.9 VA (5 W)			
Weight			100 g with DIN Plug						
Voltages "Un"		VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50	A2	24	C2	24/50	A2	24	C2
		48/50	A4	48	C4	110/50-115/50	0A		
		110/50-115/50	0A	110	C5	220/50-230/50	3D		
		220/50-230/50	3D						

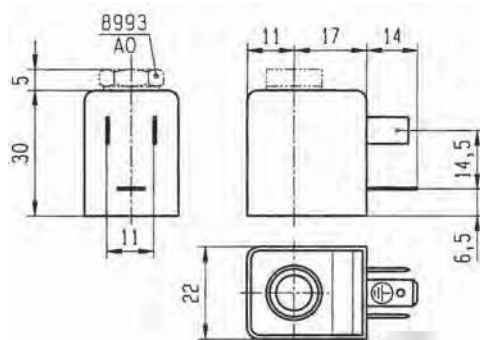
To Order a Coil choose Coil Ref + Voltage Code, example: 488980 for 24 VDC = **488980C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 8993** corresponds to the numbering system for Lucifer® valve housings (Valve - housing - coil/voltage).

It is composed of a nameplate with the details of the valve type, a washer and a nut to secure the 22 mm coil to the valve.



COILS FOR
DIN PLUG CONNECTION

UL COIL 22 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard UL (only if used with 321K, 121M, 131M valves)			
Reference (without DIN plug)			492912			
Reference (with DIN plug)			492919			
Coil Group			1.1			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			A 105°C for UL/CSA			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	4 W			
		P (cold) 20°C	4.5 W			
	AC	Pn (holding)	3 W			
		Attraction cold	7.5 VA (4 W)			
Weight			100 g with DIN Plug			
Voltages "Un"			VAC/Hz	Code	VDC	Code
- 15% to +10% of the Un			48/50-48/60	S4	24	C2
			115/50-120/60	P8		

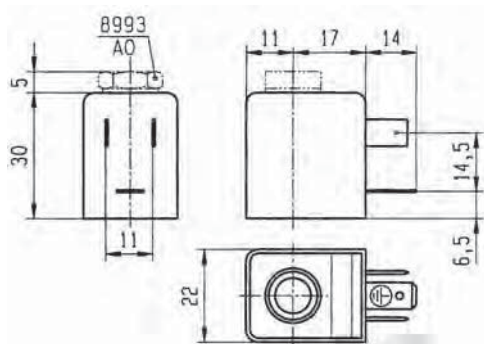
To Order a Coil choose Coil Ref + Voltage Code, example: 492912 for 24 VDC = **492912C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 8993** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 22 mm coil and the valve.



COILS FOR
DIN PLUG CONNECTION

DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			Double frequency	
Reference (without DIN plug)			483590	
Coil group			1.1	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	3 W	
		Attraction cold	7.5 VA (4 W)	
		Weight		100 g with DIN Plug
Voltages "Un"		VAC/Hz		Code
-10% to +10% of the Un		24/50-60		P0
		48/50-60		S4
		110-115/50, 120/60		S5
		220-240/50, 240/60		S6

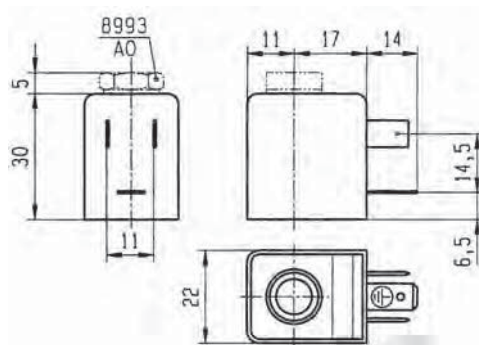
To Order a Coil choose Coil Ref + Voltage Code, example: 483590 for 24/50,24/60 = **483590P0**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 8993** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 22 mm coil and the valve.



COILS FOR
DIN PLUG CONNECTION

DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			Double frequency	
Reference (without DIN Plug)			488143	
Coil group			1.1	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	2.5 W	
		Attraction cold	-	
Weight			60 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			100/50-60	P1
			200/50-60	P6

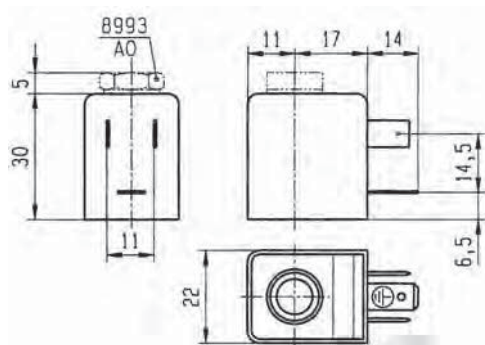
To Order a Coil choose Coil Ref + Voltage Code, example: 488143 for 100/50-60 = **488143P1**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 8993** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 22 mm coil and the valve.





DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).

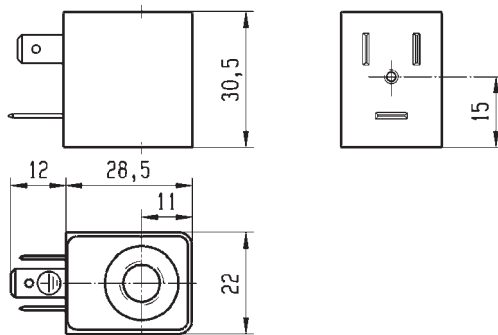


Specification			Double frequency		
Reference (without DIN Plug)			496131		
Coil group			1.2		
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).		
Class of insulation			F 155°C		
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.		
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	3 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	3 W		
		Attraction cold	-		
Weight			60 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50-60	P0	24 V	C2
		110/50-60	P2	48 V	C4
		230/50-60	P9	110 V	C5
		48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496131 for 24 VDC = **496131C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

"The housing kit is already included in the valve reference, it is not needed to order it separately."



DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector included.

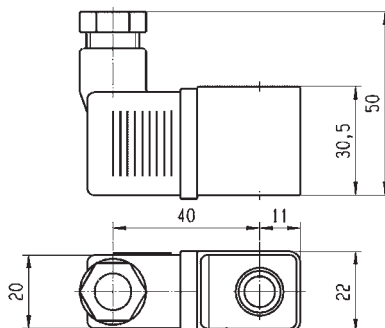


Specification			Double frequency			
Reference			496482			
Coil group			1.2			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	3 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	3 W			
		Attraction cold	-			
Weight			75 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24 V	C2
			110/50-60	P2	48 V	C4
			230/50-60	P9	110 V	C5
			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496482 for 24 VDC = **496482C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

"The housing kit is already included in the valve reference, it is not needed to order it separately."



COIL GROUP

1.3

COILS FOR
DIN PLUG CONNECTION

WB COIL SERIES 22 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" within valve pages.

These coils can be mounted with the majority of type 2 operators. Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber. IP65 protection rate with DIN 43650A three pin connector and appropriate gasket.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc. Coils conforms to the IEC/ CENELEC safety standards and complies with European low-voltage directive. For UL recognized version: UL file MH19410.

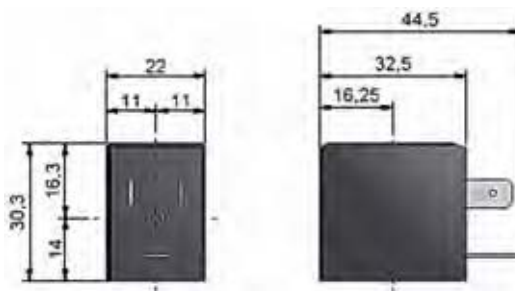
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Standard		UL recognized version		High Power	
Ref. (without DIN plug)			WB4.5 for AC WB5.0 for DC		WB4.5 UR WB5.0 cURus (only 24 VDC)		WB8.0	
Coil Group			1.3					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug + gasket)					
Class of insulation			F 155°C		F 155°C		F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.					
Ambient temperature			-10°C to +50°C		-10°C to +50°C		-10°C to +50°C	
			The application is limited also by the temperature range of the valve.					
Elect. Power	DC	P (cold) 20°C	5 W		-		-	
	AC	Pn (holding)	4.5 W		4.5 W		8 W	
		Attraction cold	7.5 VA		7.5 VA		11 VA	
Weight			90 g (without plug)					
Voltages "Un"			WB4.5 VAC/Hz	Order Number	WB4.5 UR VAC/Hz	Order Number	WB8.0 VAC/Hz	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			100/50-60	302609	115/60	304087	115/50-60	302672
			115/50-60	304260	208-240/60	304089	230/50-60	302674
			230/50-60	304262J	24/60	304086	24/50-60	302670
			110/50	304316				
			WB5.0 VDC	Order Number	WB5.0 cURus VDC	Order Number		
			110 VDC 12 VDC	302660 302652	24 VDC	302654		

To Order a Coil: Use 6 digits ordering number - Code Example: WB8.0 for 115/50-60 = 302672

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



ZB COIL SERIES

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.

IP65 protection rate with EN 175301-803:2006-A. Three pin connector.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

For UL recognized version: UL file MH19410.

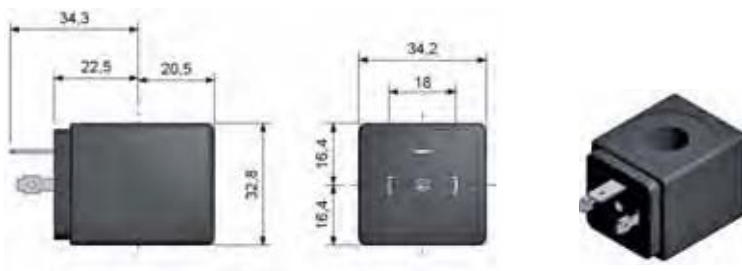
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Standard			UL recognized version		
Reference (without DIN plug)			ZB09/ZB12			ZB09 for AC only		
Coil Group			20.1					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug and gasket)					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 - type A					
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	P (cold) 20°C	12 W					
	AC	P (cold) 20°C	9 W					
		Attraction cold	25 VA					
Weight			130 g					
Voltages "Un"			VAC/Hz	Order Number	VDC	Order Number	VAC/Hz	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			ZB09 24/50-60	304004	ZB12 12DC	304018	ZB09 24/60	304048
			ZB09 12/50-60	304002	ZB12 24DC	304020	ZB09 110-120/60	304011
			ZB09 230/50-60	304012	ZB12 110DC	304022	ZB09 208-240/60	304051
			ZB09 115/50-60	304010	ZB12 48VDC	304021		
			ZB09 100/50-60	304009				
			ZB09 240/50-60	304014				
			ZB09 48/50-60	304008				
			ZB09 110-120/60	304011				
			ZB09 380/50-60	304016				

To Order a Coil: Use 6 digits ordering number - Code Example: ZB09 24/50-60 = 304004

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.





ZB/ZH HIGH POWER - HIGH TEMPERATURE COIL SERIES

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.

IP65 protection rate with EN 175301-803:2006-A. Three pin connector.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

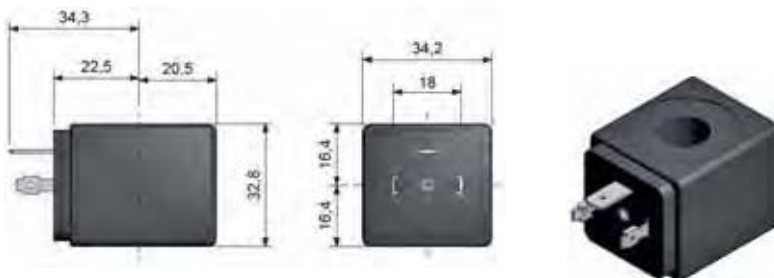
DIN plug connector to be ordered separately (see coil accessories section).



Specification			High power			High temperature + high power				
Ref. (without DIN plug)			ZB14/ZB16			ZH14/ZH16				
Coil Group			20.2							
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug and gasket)							
Class of insulation			H 180°C							
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 - type A							
Ambient temperature			ZB14/ZB16 -10°C to +50°C			ZH14/ZH16 -10°C to +80°C				
			The application is limited also by the temperature range of the valve.							
Elect. Power	DC	P (cold) 20°C	16 W							
	AC	P (cold) 20°C	14 W							
		Attraction cold	33 VA							
Weight			130 g (without plug)							
Voltages "Un"			VAC/Hz	Order Number	VDC	Order Number	VAC/Hz	Order Number	VDC	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			ZB14 12/50-60	304052	ZB16 12DC	304068	ZH14 24/50-60	304100	ZH16 24DC	304112
			ZB14 24/50-60	304054	ZB16 24DC	304070	ZH14 115/50-60	304102	ZH16 12DC	304110
			ZB14 100/50-60	304084	ZB16 110DC	304072	ZH14 230/50-60	304104		
			ZB14 115/50-60	304060						
			ZB14 230/50-60	304062						
			ZB14 240/50-60	304064						
			ZB14 380/50-60	304066						
			ZB14 48/50-60	304058						

To Order a Coil: Use 6 digits ordering number - Code Example: ZH16 for 24 VDC = 304112

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



JB COIL SERIES

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.

IP65 protection rate with EN 175301-803:2006-A. Three pin connector.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

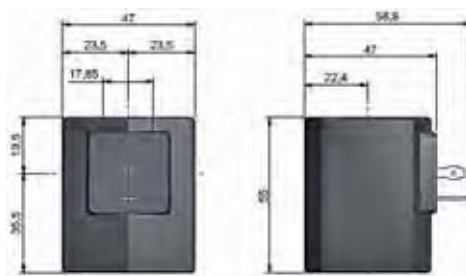
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Standard		
Ref. (without DIN plug)			JB14/JB16		
Coil Group			21.0		
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug and gasket)		
Class of insulation			F 155°C		
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 - Type A		
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	P (cold) 20°C	16 W		
	AC	P (cold) 20°C	14 W		
		Attraction cold	55 VA		
Weight			130 g (without plug)		
Voltages "Un"		VAC/Hz	Order Number	VDC	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.		JB14 24/50-60	304900	JB16 12DC	304945
		JB14 115/50-60	304910	JB16 24DC	304950
		JB14 230/50-60	304915	JB16 196DC	304958
		JB14 240/50-60	304920		

To Order a Coil: Use 6 digits ordering number - **Code Example:** JB16 for 12 VDC = 304945

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COIL GROUP

22.0**COILS FOR
DIN PLUG CONNECTION****KT/KH COIL SERIES**

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.

IP65 protection rate with EN 175301-803:2006-A. Three pin connector.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

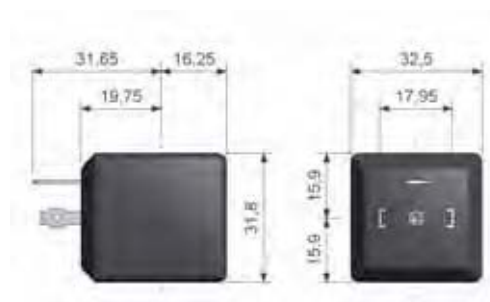
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Standard			High Temperature		
Ref. (without DIN plug)			KT09/KT10			KH09		
Coil Group			22.0					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug and gasket)					
Class of insulation			F 155°C			H 180°C		
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 - Type A					
Ambient temperature			-10°C to +50°C			-10°C to +80°C		
			The application is limited also by the temperature range of the valve.					
Elect. Power	DC	P (cold) 20°C	10 W			-		
	AC	P (cold) 20°C	9 W			9 W		
		Attraction cold	20 VA			20 VA		
Weight			150 g (without plug)					
Voltages "Un"			VAC/Hz	Order Number	VDC	Order Number	VAC/Hz	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			KT09 24/50	304621	KT10 12DC	304666	KH09 24/50	304746
			KT09 115/50	304631	KT10 24DC	304971	KH09 230/50	304748
			KT09 208-230/60	304656				
			KT09-230/50	304639				
			KT09 240/50	304641				

To Order a Coil: Use 6 digits ordering number - Code Example: KT10 for 12VDC = 304666

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.





XT09 COIL SERIES

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber. IP54 protection rate with special 2P+E connection. Special plug with integrated powercord available separately.

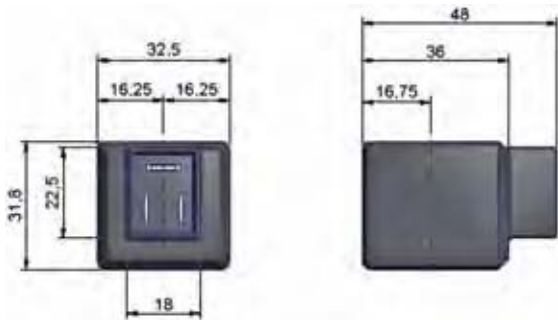
This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			For Heating Applications	
Ref. (without DIN plug)			XT09	
Coil Group			23.0	
Degree of protection			IP54 according to IEC / EN 60529 standards (with special plug supplied separately)	
Class of insulation			F 155°C	
Electrical connection			Special 2 P + E plug connection	
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	P (cold) 20°C	-	
	AC	P (cold) 20°C	9 W	
		Attraction cold	22 VA	
Weight			150 g (without plug)	
Voltages "Un"			VAC/Hz	Order Number
-10% to +10% of Un for AC			XT09 230/50	304776

To Order a Coil: Use 6 digits ordering number - **Code Example:** XT09 230/50 = **304776**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COIL GROUP

24.0

COILS FOR
DIN PLUG CONNECTION

D4 SERIES - UL COILS 32 mm

This coil is UL-approved as a recognized component for the insulation Class 155, conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

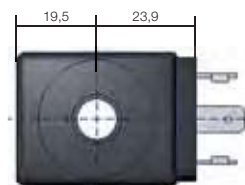
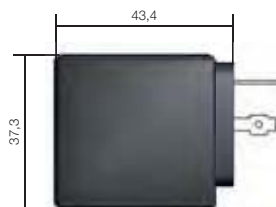
DIN plug connector to be ordered separately (see coil accessories section).



Specification			UL Recognized			
Reference (without DIN plug)			D4 Series			
Coil group			24.0			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug)			
Class of insulation			F 155°C			
Electrical Connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	12 W			
		P (cold) 20°C	16 W			
	AC	Pn (holding)	11 W			
		Attraction cold	13VA			
Weight			130 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			24/60	D4E	24	D4B
			110/50 - 120/60	D4F		
			220/50 - 240/60	D4G		

To Order a Coil: Use 6 digits ordering number - **Code Example:** D4 for 24VAC/60Hz = **D4E**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.





D5 COIL SERIES 32 mm

Encapsulated in synthetic material, Connector for 2P+E according with DIN EN 175301-803, Form A, IP65 degree of protection to be considered with connector plug only.

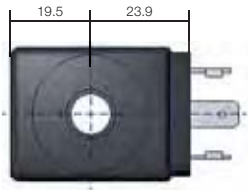
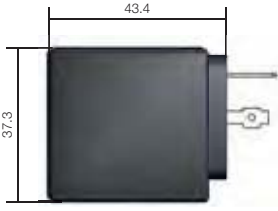
This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			Mono Frequency VDE Coil			
Reference (without DIN plug)			D5 Series			
Coil group			24.0			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug)			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	9 W			
		P (cold) 20°C	-			
	AC	P (cold) 20°C	8 W			
		Attraction cold	40 VA			
		Weight	130 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code	
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.		24/50	D5H	24	D5B	
		110/50	D5XA5			
		220-230/50	D5L			
		24/60	D5E			
		230/60	D5XJ3			
		115/60	D5XK8			

To Order a Coil: Use 6 digits ordering number - Code Example: D5 for 24 VAC/60 Hz = D5E
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COIL GROUP

24.0

COILS FOR
DIN PLUG CONNECTION

XS03 COIL SERIES 32 mm

Encapsulated in synthetic material, Connector for 2P+E according with DIN EN 175301-803, Form A, IP65 degree of protection to be considered with connector plug only.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

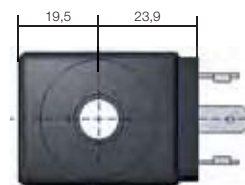
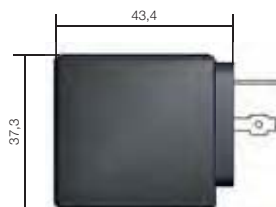
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Bi- Frequency VDE Coil	
Reference (without DIN plug)			XS03 Series	
Coil group			24.0	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug)	
Class of insulation			F 155°C	
Electrical Connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	9 W	
		Attraction cold	32 VA	
Weight			130 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of Un for AC			24/50 - 24/60	XS03M
			110-115/50 - 120/60	XS03XS5
			220-240/50 - 240/60	XS03XS6

To Order a Coil: Use 6 digits ordering number - **Code Example:** XS03 for 24/50-24/60 = **XS03M**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COIL FOR OIL AND GAS 37 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive. DIN plug connector included (The AC electrical connection is delivered with a rectifier bridge).

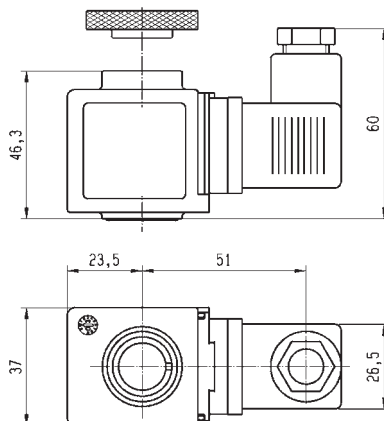


Specification			Coil for Oil and Gas		
Reference (with DIN plug)			496895		
Coil group			10.1		
Degree of protection			IP65 according to IEC / EN 60529 standards		
Class of insulation			H 180°C		
Electrical connection			With DIN plug 492459 (AC) or 486586 (DC)		
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	8 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	8 W		
		Attraction cold	-		
Weight			273 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		230/50-60	P9	24	C2
		110/50-60	P2	48	C4
		24/50-60	P0	110	C5
		48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496895 for 24 VDC = **496895C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

The fixing nut (housing kit) is already included in the coil kit.



COIL GROUP

20.1

COILS WITH
FLYING LEADS

YB COIL SERIES IP67

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber.

IP67 protection rate. Electrical connection: 2 x 1000 mm cables.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

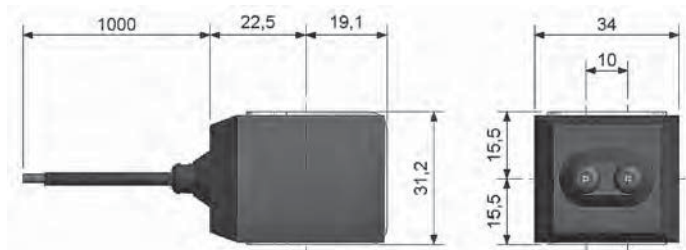
For UL recognized version: UL file MH19410.



Specification			Standard			UL recognized version		
Reference			YB09/YB12			YB09		
Coil Group			20.1					
Degree of protection			IP67 according to IEC / EN 60529 standards					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 x 1000 mm flying leads integrated.					
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	P (cold) 20°C	12 W			-		
	AC	Pn (holding)	9 W			9 W		
		Attraction cold	24 VA			24 VA		
Weight			150 g					
Voltages "Un"			VAC/Hz	Order Number	VDC	Order Number	VAC/Hz	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			YB09 115/50-60	304396	YB12 12DC	304412	YB09 24/60	304481
			YB09 230/50-60	304398	YB12 24DC	304416	YB09 110-120/60	304488
			YB09 24/50-60	304390			YB09 208-240/60	304483
			YB09 240/50-60	304400				

To Order a Coil: Use 6 digits ordering number - Code Example: YB09 for 24 VAC/60 Hz = 304481

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COILS

COIL GROUP

24.0

COILS WITH FLYING LEADS



LA COIL SERIES 32 mm IP67

Encapsulated in synthetic material. Degree of protection IP67 as per IEC/EN60529.

Connection: 2 x 500 mm cables.

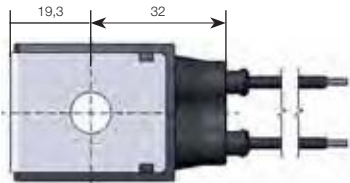
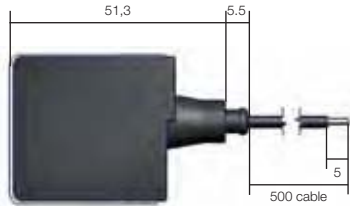
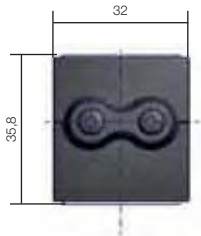
This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Coil with two 500 mm flying leads			
Reference			LA Series			
Coil group			24.0			
Degree of protection			IP67 according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	9 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	9 W			
		Attraction cold	32 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			24/50 - 24/60	LAM	24	LAB
			110-115/50 - 120/60	LAXS5		
			220-240/50 - 240/60	LAXS6		

To Order a Coil: Use 6 digits ordering number - Code Example: LA Series for 24 VDC = LAB

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



COIL GROUP

24.0

COILS WITH
FLYING LEADS

LB-LC COIL SERIES 32 mm UL IP67

Encapsulated in synthetic material. Degree of protection IP67 as per IEC/EN60529.

Connection: 2 x 500mm cables.

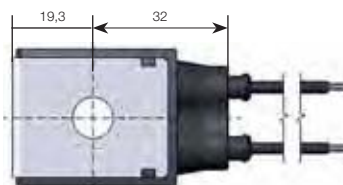
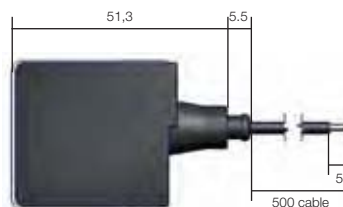
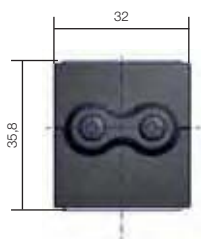
This coil is UL-approved as a recognized component for the insulation Class 155, conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			UL Coil with two 500 mm flying leads			
Reference			LB-LC Series			
Coil group			24.0			
Degree of protection			IP67 according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	16 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	13-14 W			
		Attraction cold	40 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/60	LBE	24	LCB
			110/50 - 120/60	LBF		
			208-240/60	LBXU3		
			220/50 240/60	LBG		

To Order a Coil: Use 6 digits ordering number - **Code Example:** LB-LC for 24 VDC = LCB

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.





COIL 32 mm IP67

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

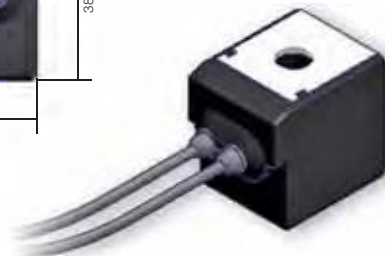


Specification			Coil with two 500 mm flying leads				
Reference			496081				
Coil Group			2.0 / 2.1				
Degree of protection			IP67 according to IEC / EN 60529 standards				
Class of insulation			F 155°C				
Ambient temperature			-40 °C to +50°C The application is limited also by the temperature range of the valve.				
Elect. Power	DC	Pn (hot)	9 W				
		P (cold) 20°C	-				
	AC	Pn (holding)	9 W				
		Attraction cold	32 VA				
Weight			180 g				
Voltages "Un"			VAC/Hz		Order Number	VDC	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/50 - 24/60		439816	24	439818
			110-115/50 - 120/60		439820	12	439814
			220-240/50 - 240/60		439822		

To Order a Coil: Use 6 digits ordering number - **Code Example:** 496081 for 24 VDC = 439818

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

For Parker Lucifer® valves please order housing Ref: 2995



COIL GROUP

2.0/2.2**COILS WITH
FLYING LEADS****COIL 32 mm IP67 UL**

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

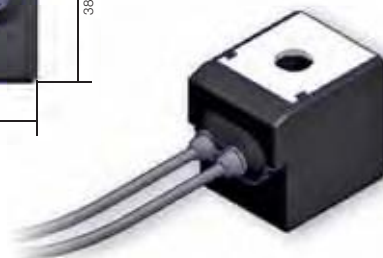


Specification			UL Coil with two 500 mm flying leads			
Reference			496082			
Coil Group			2.0 / 2.2			
Degree of protection			IP67 according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	16 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	13-14 W			
		Attraction cold	40 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Order Number	VDC	Order Number
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/60	439826	24 12	439832
			110/50 - 120/60	439828		439830
			208-240/60	439824		
			220/50 - 240/60	439834		

To Order a Coil: Use 6 digits ordering number - **Code Example:** 496082 for 24 VDC= 439832

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

For Parker Lucifer® valves please order housing Ref: 2995



STANDARD COILS 40 mm

These coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

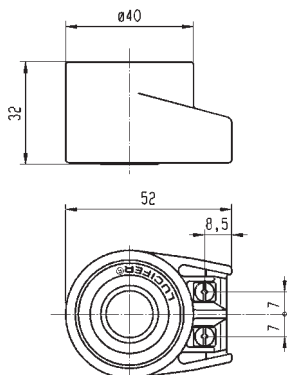


Specification			Standard			Double Frequency		
Reference			481000			483520		
Coil Group			2.0 / 2.1					
Class of insulation			F 155°C					
Ambient temperature			-40°C to +50°C					
			The application is limited also by the temperature range of the valve..					
Elect. Power	DC	Pn (hot)	8W			-		
		P (cold) 20°C	9W			-		
	AC	Pn (holding)	8W			9W		
		Attraction cold	32 VA (9 W)			36 VA (10 W)		
Weight			130 g			130 g		
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50	A2	24	C2	24/50-60	P0
(-15 % to +5 %			48/50	A4	48	C4	220-240/50-240/60	S6
for double-frequency coil			110/50-115/50	0A	110	C5		
with voltage code			220/50-230/50	3D				
S6 if 240 V/50/Hz is used).								

To Order a Coil choose Coil Ref + Voltage Code, example: 4828 for 24 VDC = **481000C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:



Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 4538 - Protection **IP 67** according to IEC / EN 60529 standard

HIGH POWER COILS 40 mm

This coil can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

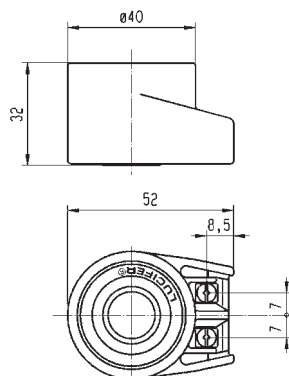


Specification			High Power
Reference			481044
Coil Group			2.0 / 2.2
Class of insulation			F 155°C
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.
Elect. Power	DC	Pn (hot)	-
		P (cold) 20°C	-
	AC	Pn (holding)	14 W
		Attraction cold	56 VA (20 W)
Weight			130 g
Voltages "Un"		VAC/Hz	Code
-10% to +10% of the Un		24/50	A2
		110/50	A5
		220/50	A7
		230/50	F4

To Order a Coil choose Coil Ref + Voltage Code, example: 481044 for 24VAC/50Hz = **481044A2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:



Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 8520 - Protection **IP 67** according to IEC / EN 60529 standard

HIGH TEMPERATURE COILS 40 mm

These coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

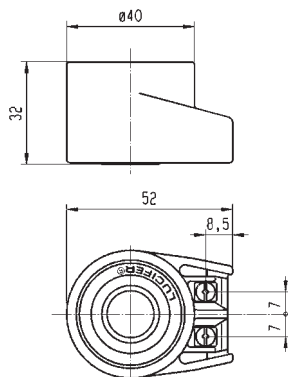


Specification			High Temperature				High Temperature & High Power					
Reference			485100				486265					
Coil Group			2.0 / 2.1				2.0 / 2.2					
Class of insulation			H 180°C									
Ambient temperature			-40°C to +50°C									
			The application is limited also by the temperature range of the valve.									
Elect. Power	DC	Pn (hot)	8 W				14 W					
		P (cold) 20°C	9 W				21 W					
	AC	Pn (holding)	8 W				14 W					
		Attraction cold	32 VA (9 W)				56 VA (20 W)					
Weight			140 g									
Voltages "Un"			VAC/Hz		Code	VDC	Code	VAC/Hz		Code	VDC	Code
-10% to +10% of the Un			24/50		A2	24	C2	24/50		A2	12	C1
			380/50-440/60		5P			110/50		A5	24	C2
			220/50-230/50		3D			220/50		A7	48	C4
								230/50		F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 485100 for 24VAC/50Hz = **485100A2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:



Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 8520 - Protection **IP 67** according to IEC / EN 60529 standard

COIL GROUP

14.1

COILS WITH
SCREW TERMINALS

HIGH TEMPERATURE & HIGH POWER COILS 40 mm OIL BURNER

This coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group. See column "Coil Group" within valve pages.

It can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coil conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)

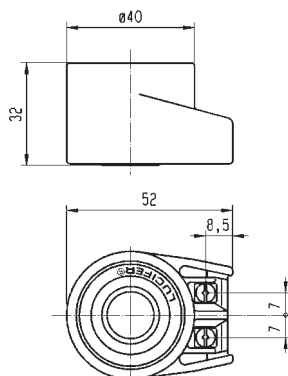


Specification			High Temperature & High Power	
Reference			483824	
Coil Group			14.1	
Class of insulation			H 180°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	19 W	
		P (cold) 20°C	19 W	
	AC	Pn (holding)	19 W	
		Attraction cold	56 VA (20 W)	
		Weight		130 g
Voltages "Un" -10% to +10% of the Un		VAC/Hz		Code
		120/50		A6
		240/50		A8
		110/60		B5
		220/60		B7
		58/50-60/60		T6
		55/60		4J

To Order a Coil choose Coil Ref + Voltage Code, example: 483824 for 120/50 = 483824A6

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23



Ref. 8760.24



Ref. 8520.23

HIGH TEMPERATURE & HIGH POWER COILS 40 mm OIL BURNER

This coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

It can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coil conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)

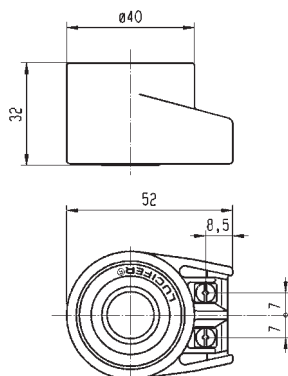


Specification			High Temperature & High Power	
Reference			483541	
Coil Group			14.3	
Class of insulation			H 180°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	20 W	
		P (cold) 20°C	20 W	
	AC	Pn (holding)	20 W	
		Attraction cold	56 VA (20 W)	
		Weight		130 g
Voltages "Un" -10% to +10% of the Un		VAC/Hz	Code	
		120/50	A6	
		240/50	A8	
		110/60	B5	
		220/60	B7	
		58/50-60/60	T6	
		55/60	4J	

To Order a Coil choose Coil Ref + Voltage Code, example: 483541 for 120/50 = **483541A6**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23



Ref. 8760.24



Ref. 8520.23

COIL DOUBLE FREQUENCY 40 mm H CLASS

This coil can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

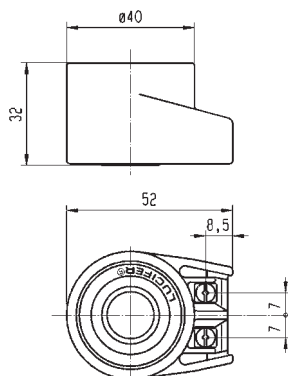


Specification		Double Frequency 100 V - 200 V	
Reference		488553	
Coil Group		2.0/2.1	
Class of insulation		H 180°C	
Ambient temperature		-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-
		P (cold) 20°C	-
	AC	Pn (holding)	9 W
		Attraction cold	-
Weight		130 g	
Voltages "Un"		VAC/Hz	Code
-10% to +10% of the Un		100/50-60	P1
		200/50-60	P6

To Order a Coil choose Coil Ref + Voltage Code, example: 488553 for 110/50-60 = 488553P1

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:



Ref. 4270 - Protection IP 44



Ref. 8520 - Protection IP 54

BISTABLE COILS 40 mm FOR IMPULSE APPLICATIONS

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

These coils are specially designed for Lucifer® bistable (or impulse or magnetic latch) solenoid valves for Heating Applications.

They can be mounted only with the Lucifer® metallic housing 4269 or 4538. The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

Coils conform to the IEC/GENELEC safety standards and complies with European low-voltage directive.



Specification		Bistable (Impulse)			
Reference		484990		485400	
Coil Group		4.0			
Class of insulation		F 155°C			
Ambient temperature		-40°C to +50°C The application is limited also by the temperature range of the valve.			
Length of impulses		Switch on (terminals A-B): minimum 50 ms Switch off (terminals A-C): minimum 35 ms			
Electr. Power consumption	DC	Attraction (hot)	-	13 W	
		Attraction (cold)	-	19 W	
		Release (hot)	-	8 W	
		Release (cold)	-	10 W	
	AC	Attraction (hot)	11 W	-	
		Attraction (cold)	17 W	-	
		Release (hot)	4 W	-	
		Release (cold)	7 W	-	
Weight		150 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50-24/60	P0	24	C2
		48/50-48/60	S4	48	C4
		110-115/50-115/60	1P	110	C5
		220-230/50-60	3P		

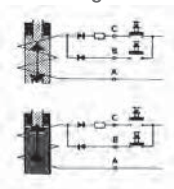
To Order a Coil choose Coil Ref + Voltage Code, example: 485400 for 24 VDC = **485400C2**

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

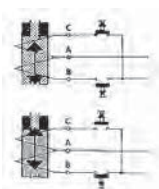
These coils must be used with suitable housings, see examples below:

DIAGRAM

Alternating Current



Direct Current



Only an electrical impulse given to terminals A-C reverses the magnetic field. This magnetic field demagnetises the reversible magnet enough to allow the return spring to bring the plunger back to its initial position and close the valve.

Ref. 4269 - Protection IP 44

Ref. 4538 - Protection IP 67

COILS 12 V - 24 V FOR TRANSPORTATION APPLICATIONS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" within valve pages.

These coils are specially designed for Lucifer® solenoid valves for Transportation Applications.

They can be mounted with the standard Lucifer® housing 2161 or customized housing.

The coil winding is completely encapsulated in epoxy. Easy mounting and dismounting in confined spaces. Bayonet twist and lock coupling for tight, vibration resistant connection.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Transportation			
Reference			496193 with diode		495294 without diode	
Coil Group			13.0			
Degree of protection			IP69K for DIN 400050 part 9			
Ambiant temperature			- 40°C to +120°C The application is limited also by the temperature range of the valve and duty cycle of the valve.			
Insulation Class			F 155°C			
Electrical connection			ISO 15170-A1-2.3-Sn/K2		DIN 72585-A3-2.1	
Elect. Power	DC	Pn (hot)	9 w			
		P (cold) 20°C	-			
	AC	Pn (holding)	-			
		Attraction cold	-			
Weight			147 g			
Voltages "Un"			VDC	Code	VDC	Code
- 30% to + 30% of the Un			12	C1	12	C1
			24	C2	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: 496193 for 24 VDC = 496193C2

These coils must be used with suitable housings Ref.2168 for 12Vdc and 2169 for 24 VDC.

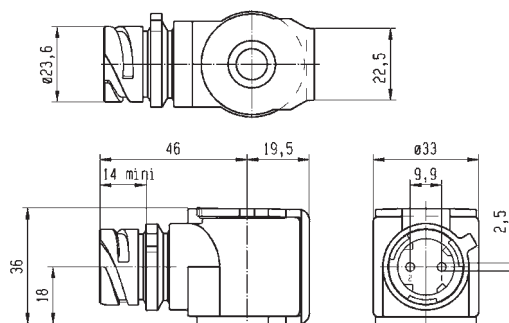
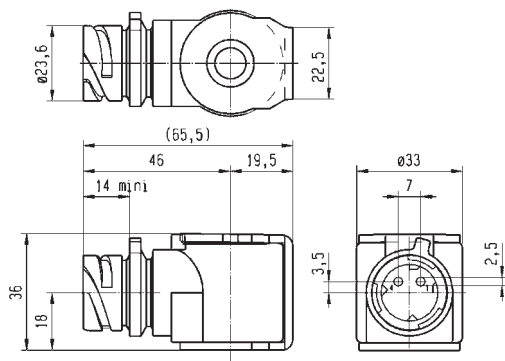


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ELECTRICAL PART LOW POWER 22 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application:

Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5 is required.

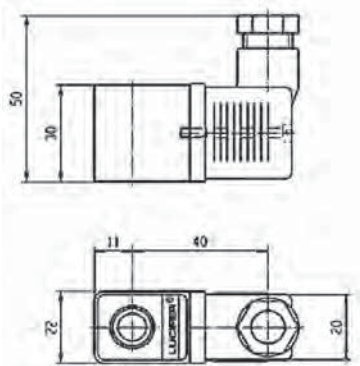
Benefits:

The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc. Small size for ease of mounting in confined spaces.



Reference			495865			
Certificate			LCIE 05 ATEX 6003 X			
Coil Group			1.1			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T5			
		Dust	II 3 D - Ex tc IIIC - T 95°C			
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards			
Ambiant temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Electrical connection			These coils with connection 2P + G - when mounted together with the supplied Pg 9 plug (delivered with the coil),			
Elect. Power	DC	Pn (hot)	2.5 W			
		P (cold) 20°C	3 W			
	AC	Pn (holding)	2 W			
		Attraction cold	5.7 VA (2.5 W)			
Weight			120 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	24	C2
			48/50	A4	48	C4
			110/50-115/50	0A		
			220/50-230/50	3D		

To Order a Coil choose Coil Ref + Voltage Code, example: 495865 for 24 VDC = 495865C2





ELECTRICAL PART DOUBLE FREQUENCY 22 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application:

Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5 is required.

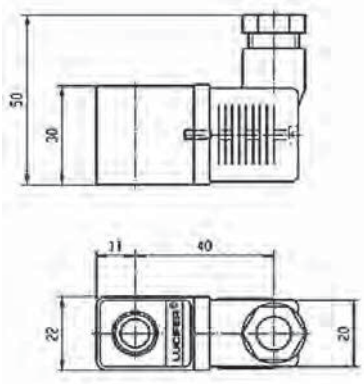
Benefits:

The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc. Small size for ease of mounting in confined spaces.



Specification			Double Frequency		
Reference			496637		
Certificate			ATEX		
Coil group			1.2		
Type of protection	Gas	Ex nAc nCc IIC T5			
	Dust	II 3 D - Ex tc IIIC - T 95°C			
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards		
Ambiant temperature			-20°C to +50°C The application is limited also by the temperature range of the valve.		
Insulation Class			F 155°C		
Elect. Power	DC	Pn (hot)	3 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	3 W		
		Attraction cold	5.7 VA (2.5 W)		
Weight			75 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50-60	P0	24 V	C2
		110/50-60	P2	48 V	C4
		230/50-60	P9	110 V	C5
		48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496637 for 24 VDC = 496637C2



ELECTRICAL PART 32 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3/T4 is required.

Ease of mounting in confined space - offers shock and corrosion protection-simplifies conversion of existing equipment to other requirements, etc.

Benefits:

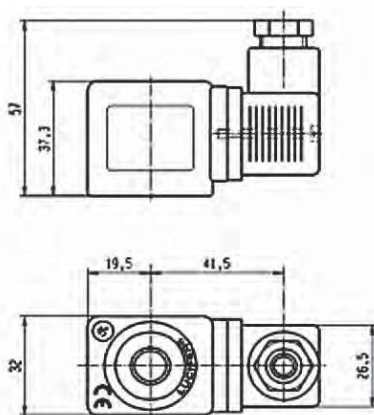
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined spaces.



Reference			495870			496110		
Certificate			LCIE 05 ATEX 6003 X					
Coil Group			2.0 / 2.1					
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3/T4			II 3 G Ex nAc nCc IIC T3/T4		
		Dust	II 3 D - Ex tc IIIC - T195°C / T130°C			II 3 D - Ex tc IIIC - T195°C / T130°C		
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards					
Insulation Class			F (155°C)					
Duty cycle			100%					
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	Pn (hot)	9 W			-		
		P (cold) 20°C	12 W			-		
	AC	Pn (holding)	8 W			9 W		
		Attraction cold	26 VA (9 W)			32 VA (10 W)		
Weight			150 g					
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50	A2	24	C2	24/50-60	P0
			48/50	A4	48	C4	48/50-60	S4
			110/50	A5	110	C5	110/50-60	S5
			220-230/50	3D			220/50-60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 495870 for 24 VDC = 495870C2



ELECTRICAL PART LOW POWER 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5/T6 is required.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Benefits:

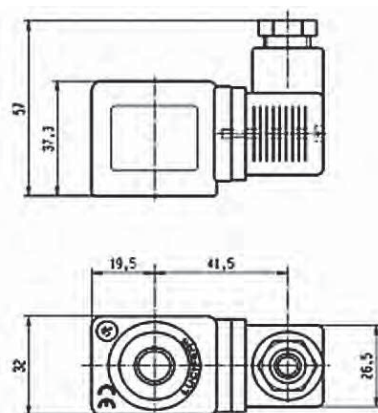
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined spaces.



Reference			496125	
Certificate			LCIE 05 ATEX 6003 X	
Coil group			6.0	
Type of protection		Gas	II 3 G Ex nAc nCc IIC T5/T6	
		Dust	II 3 D Ex tc IIIC T95°C/80°C	
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards	
Insulation Class			F (155°C)	
Duty cycle			100%	
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	1.6 W	
		P (cold) 20°C	2.1 W	
	AC	Pn (holding)	-	
		Attraction cold	-	
Weight			150 g	
Voltages "Un"			VDC	Code
-10% to +10% of the Un			24	C2
			48	C4
			110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 496125 for 24 VDC = 496125C2



ELECTRICAL PART 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3/T4 is required.

Ease of mounting in confined space - offers shock and corrosion protection-simplifies conversion of existing equipment to other requirements, etc.

Benefits:

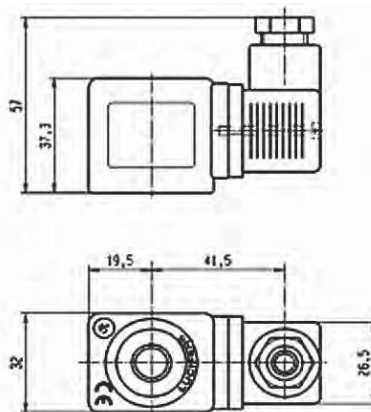
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined spaces.



Specification			32 mm Coil "nAc nCc"			
Reference			495875			
Certificate			LCIE 05 ATEX 6003 X			
Coil Group			3.0			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3/T4			
		Dust	II 3 D - Ex tc IIC - T195°C / T130°C			
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards			
Insulation Class			F 155°C			
Duty cycle			100%			
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	7 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	6 W			
		Attraction cold	-			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			220-230/50	3D	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: 495875 for 24 VDC = 495875C2



COIL GROUP

2.0/2.2**NON ENCAPSULATED
ELECTRICAL PARTS
"nAc nCc"****ELECTRICAL PART 32 mm**

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3 is required.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Benefits:

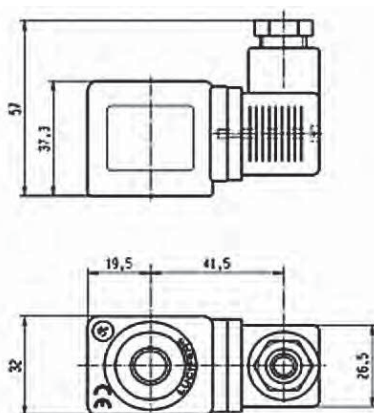
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined spaces.



Specification			32 mm Coil "nAc nCc"		
Reference			495880		
Certificate			LCIE 05 ATEX 6003X		
Coil Group			2.0 / 2.2		
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3		
		Dust	II 3 D - Ex tc IIC - T195°C		
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards		
Insulation Class			H 180°C		
Duty cycle			100%		
Ambiant temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	14 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	14 W		
		Attraction cold	-		
Weight			180 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50	A2	24	C2
		110/50	A5		
		230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 495880 for 24 VDC = 495880C2



INCREASED SAFETY
ELECTRICAL PARTS
"nAc nCc"

495915 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection - Ex nAc nCc IIC T3 is required.

Benefits: Rotatable housing 360°, epoxy varnished steel with internal and external screw terminals for earth connection.

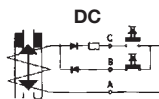
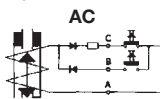
Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference		495915			
Certificate		LCIE 05 ATEX 6010 X			
Coil group		4.0			
Type of protection	Gas	II 3 G Ex nAc nCc IIC T3			
	Dust	II 3 D - Ex tc IIIC - T 195°C			
Degree of protection		IP67 according to IEC/EN 60529 Standards			
Ambient temperature		-40°C to +65°C The application is limited also by the temperature range of the valve.			
Insulation Class		F 155°C			
Electrical connection		By special cable gland M20 x 1.5 on screw terminals for wires up to 1.5 mm ² . Cable with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the rubber gland with resilient sealing rings supplied			
Consumation Electrique	AC	Attraction (hot)	11 W	-	
		Attraction (cold) 20°C	17 W	-	
		Release (hot)	4 W	-	
		Release (cold) 20°C	7 W	-	
	DC	Attraction (hot)	-	13 W	
		Attraction (cold) 20°C	-	19 W	
		Release (hot)	-	8 W	
		Release (cold) 20°C	-	10 W	
Weight		320 g			
Duty cycle		Continuous duty solenoid (ED 100%)			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		110-115/50-60	1P	24	C2
		220-230/50-60	3P	48	C4
		48/50-60	S4		
		24/50-60	P0		

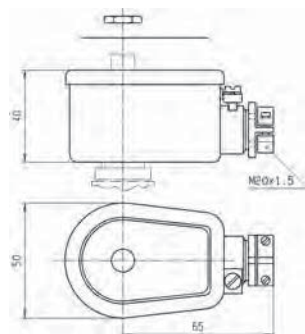
To Order a Coil choose Coil Ref + Voltage Code,
example: 495915 for 24 VDC = **495915C2**

Schema



As soon as an electrical impulse is given to the terminals A-B, the electromagnetical force attracts the plunger and simultaneously magnetizes a reversible permanent magnet ring. This magnet retains the plunger in place. It stays in position even without current. Only an electrical impulse given to terminals A-C reserves the magnetic field. This magnetic field demagnetises the reversible magnet enough to allow the return spring to bring the plunger back to its initial position and close the valve.

Switch: Switch on (terminals A-B): Minimum 50 ms (maximum 1 s)
AC: Switch off (terminals A-C): Minimum 35 ms (maximum 1 s)



COIL GROUP

2.0/2.2**INCREASED SAFETY
ELECTRICAL PARTS
"nAc nCc"****3.5.1 ELECTRICAL PARTS 496155**

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Compatibility Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3 is required.

Benefits: Rotatable housing 360°, epoxy varnished steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

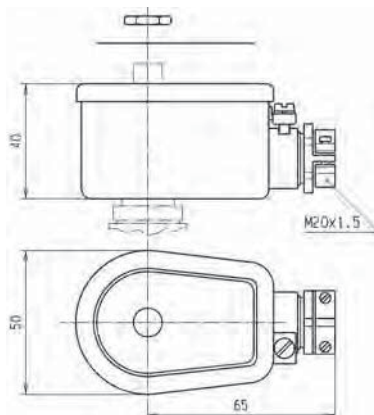


Reference			496155		
Certificate			LCIE 05 ATEX 6010 X		
Coil Group			2.0/2.2		
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3		
		Dust	II 3 G D - Ex tc IIIC - T 195 °C		
Degree of protection			IP67 according to IEC/EN 60529 Standards		
Ambiant temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.		
Insulation Class			F 155°C		
Electrical connection			By special cable gland or M20x1.5 on screw terminals for wires up to 1.5 mm². Cables with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the rubber gland with resilient sealing rings supplied.		
Elect. Power	DC	Pn (hot)	14 W		
		P (cold) 20°C	21 W		
	AC	Pn (holding)	14 W		
		Attraction cold	56 VA (20 W)		
Weight			320 g		
Voltages "Un" -10% to +10% of the Un		VAC/Hz	Code	VDC	Code
		24/50	A2	24	C2
		110/50	A5	48	C4
		230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496155 for 24VAC/50Hz = **496155A2**

Fuses:

Both electrical parts have to be connected in series with a safety fuse according to IEC 60127-3.



483270 & 483270.02 - ELECTRICAL PARTS 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db IIC T4 to T6 is required.

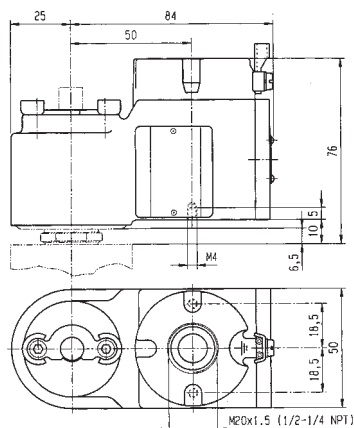
Benefits: Rotatable 360°, housing made of cast iron with internal connection chamber: Cover made of aluminium alloy fixed with 4 screws. The electromagnetic control pilot is composed of three main elements: housing, coil and plunger tube including housing plate.

Small size for ease of mounting in confined space.



Reference			483270 (M20 x 1.5) 483270.02 (1/2 NPT)		
Certificate			LCIE 02 ATEX 6008 X		
Coil group			11.0		
Type of protection		Gas	II 2 G - Ex db IIC T4/T5/T6		
		Dust	II 2 D - Ex tb IIC - T130°C/ 95°C/ 80°C		
Degree of protection			IP66 with appropriate cable gland according to IEC/EN 60529 Standards		
Ambient temperature			-40 to +80°C / +75°C / +60°C The application is limited also by the temperature range of the valve.		
Class of insulation			F (155 °)		
Electrical connection			The electrical connection is made within the housing connection chamber on an accessible screw terminal. The cable entry to the connecting chamber is made through 1/2" NPT thread suitable for fitting an approved Ex db IIC cable gland.		
Elect. Power	DC	Pn (hot)	8 W		
		P (cold) 20°C	9 W		
	AC	Pn (holding)	8 W		
		Attraction cold	9 W		
Weight			1100 g (with coil)		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		110-115/50-60	1P	24	C2
		220-230/50-60	3P	48	C4
				110	C5

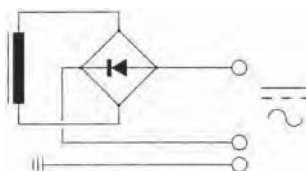
To Order a Coil choose Coil Ref + Voltage Code, example: 483270 for 24 VDC = 483270C2



Plunger tube:

The plunger tube is welded to the stainless steel plate and is thus integrated to the housing which is screwed on the valve body.

This electrical part is supplied only as complete unit mounted on a valve, as the "Ex db" protection depends on minimum gap between plunger tube, plate and housing.





497105 & 497105.02 - ELECTRICAL PARTS

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db IIC T4 / T5 / T6 is required.

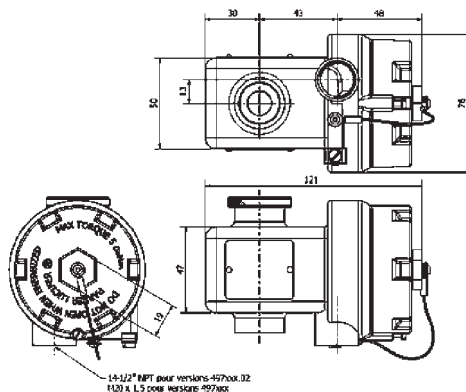
Benefits: Rotatable 360°, stainless steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference		497105 (M20x1.5) 497105.02 (NPT 1/2")			
Certificate		INERIS 12ATEX0041X - IECEx INE 12.0034X			
Coil Group		10.3			
Type of protection	Gas	II 2 G - Ex db IIC T4 / T5 / T6			
	Dust	II 2 D - Ex tb IIIC - 130°C / 95°C / 80°C			
Degree of protection		IP66 (with relevant cable gland) according to IEC/EN 60529 Standards			
Ambient temperature		-50°C to +80°C / +60°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Insulation Class		F 155°C			
Electrical connection		Electric connection is done in the connection chamber on an easily accessible connector terminals. The cable entry to the connection chamber is made through a 1/2" NPT or M20x1.5 thread in which an approved Exdb IIC cable gland must be installed.			
Electrical consumption	DC	Pn (hot)	8 W		
		P (cold) 20°C	9 W		
	AC	Pn (holding)	8 W		
		Attraction cold	9 W		
Voltage Tolerance		+/- 10% of nominal voltage			
Emergising Cuty		ED 100%			
Voltages		VAC/Hz	Code	VDC	Code
		24/50-60	P0	12	C1
		110-115 / 50-60	1P	24	C2
		220-230 / 50-60	3P	48	C4
				110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 497105 for 24 VDC = 497105C2



ENCAPSULATED
ELECTRICAL PARTS
"mb"

ELECTRICAL PART LOW POWER 22 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application:

Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4 / T5 is required.

Benefits:

Coil and magnetic circuit encapsulated in synthetic material - offering shock and corrosion protection. AC coils with integrated thermal fuse. Small size for ease of mounting in confined spaces.



Reference			482605		482606 or 482606.160*			
Certificate			LCIE 02 ATEX 6014 X - IECEx LCI 07.0026 X					
Coil Group			1.1					
Type of protection		Gas	II 2 G - Ex mb IIC T4 / T5					
		Dust	II 2 D - Ex tb IIC - T130°C / 95°C					
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards					
Ambiant temperature			-40°C to +65°C / +40°C		-40°C to +65°C / +35°C			
			The application is limited also by the temperature range of the valve.					
Insulation Class			F 155°C					
Electrical connection			Cable connection (3 x 0.75 mm²) encapsulated with coil, cable material according to application					
Elect. Power	DC	Pn (hot)	5 W		2.5 W			
		P (cold) 20°C	6.5 W		3 W			
	AC	Pn (holding)	4 W		2 W			
		Attraction cold	8.9 VA (5 W)		5.7 VA (2.5 W)			
	Weight			150 g				
Voltages "Un"			VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			12	C1	24/50	A2	24	C2
			24	C2	48/50	A4	48	C4
					110/50-115/50	0A	110	C5
					220/50-230/50	3D		

To Order a Coil choose Coil Ref + Voltage Code, example: 482605 for 24 VDC = **482605C2**

* 482606.160 - 6 m cable length - available only in C2 and 3D

* 482606 - 1.5 m cable length

Fuses:

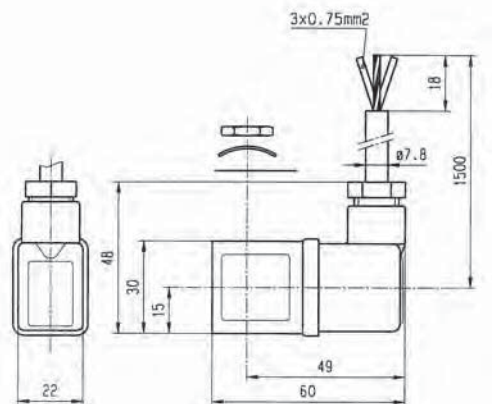
Both electrical parts 482605 & 482606 have to be connected in series with a safety fuse according to CEI 60127-3. Indicating example below:

482605:

DC: 12 V, 1000 mA - 24 V, 500 mA - 48 V, 200 mA - 110 V, 100 mA
AC 50 Hz: 24 V, 500 mA - 48 V, 250 mA - 110/115 V, 100 mA - 220/230 V, 3 mA
AC 60 Hz: 24 V, 630 mA - 110/115 V, 125 mA - 220/230 V, 63 mA

482606:

DC: 12 V, 400 mA - 24 V, 200 mA - 48 V, 100 mA - 110 V, 50 mA
AC 50 Hz: 24 V, 250 mA - 48 V, 125 mA - 110/115 V, 63 mA - 220/230 V, 32 mA
AC 60 Hz: 24 V, 315 mA - 110/115 V, 63 mA - 220/230 V, 32 mA



COIL GROUP

2.0/2.1

ENCAPSULATED
ELECTRICAL PARTS
"mb"

ELECTRICAL PART 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4 is required.

Benefits: Coil and magnetic circuit encapsulated in synthetic material offering shock and corrosion protection. AC/DC coils with integrated thermal fuse. DC coils with integrated surge suppression diode.

Small size for ease of mounting in confined spaces. This electrical



Reference		492670*			
Certificate		LCIE 02 ATEX 6015 X			
Coil Group		2.0 / 2.1			
Type of protection	Gas	II 2 G - Ex mb IIC T4			
	Dust	II 2 D - Ex tb IIIC - T130°C			
Degree of protection		IP65 (With DIN Plug connector) according to IEC/EN 60529 standards			
Ambiant temperature		-40°C to +40°C The application is limited also by the temperature range of the valve.			
Class of insulation		F 155°C			
Electrical connection		Cable connection (3 x 1.5 mm²) encapsulated with coil, cable material according to application			
Elect. Power	DC	Pn (hot)	9 W		
		P (cold) 20°C	12 W		
	AC	Pn (holding)	8 W		
		Attraction cold	26 VA (9 W)		
Weight		320 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		48/50	A4	24	C2
		230/50	F4	48	C4
				110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 492670 for 24 VDC = 492670C2

* 492670 3 m cable length

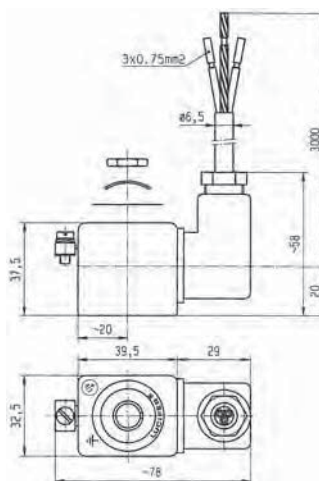
Special conditions:

The supply connection lines have to be fixed and positioned in such a way that they are protected against mechanical damages.

It is necessary to use a safety fuse with a nominal current corresponding to the coil current (max. 3 x nominal according to IEC 60127 and IEC 60269) against short-circuits.

Recommended values:

DC: 12 V, 1250 mA - 24 V, 630 mA - 48 V, 315 mA - 110 V, 125 mA
AC 50 Hz: 24 V, 1000 mA - 48 V, 500 mA - 110 V, 250 mA - 230 V, 100 mA
AC 60 Hz: 240 V, 100 mA



ZONE 1/2/1

ENCAPSULATED
ELECTRICAL PARTS
"mb"



ZONE 1/2/1

WITH WATER PROOF METAL HOUSING 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4/ T5 is required.

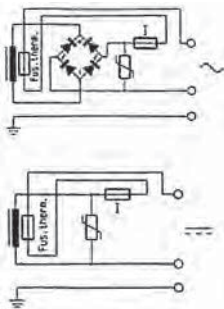
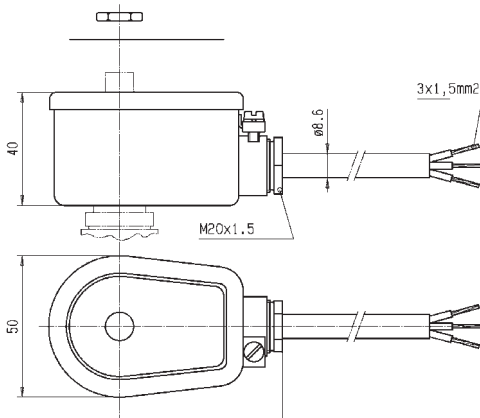
Benefits: Epoxy-vernished steel housing - solenoid coil, rectifier (silicium diodes), fuse and varistor protection element are completely encapsulated in the coil housing by means of epoxy resin.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference			492070 (with 3 m cable length) 492070.160 (with 6 m cable length)			
Certificate			LCIE 02 ATEX 6017 X - IECEx LCI 09.0024 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G - Ex mb IIC T4/ T5			
		Dust	II 2 D - Ex tb IIIC - T130 / 95°C			
Degree of protection			IP67 according to IEC/EN 60529 standards			
Ambient temperature			-40°C to +65°C / 40°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Electrical connection			Cable connection (3 x 1.5 mm²) with cable gland M20 x 1.5, external earth screw connection.			
Elect. Power	DC	Pn (hot)	8 W			
		P (cold) 20°C	10 W			
	AC	Pn (holding)	9 W			
		Attraction cold	11 W			
		Weight		500 g		
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24	C2
			110/50-60	P2	48	C4
			220/50-60	R5	110	C5
			230/50-60	P9		
			240/50-60	Q1		

To Order a Coil choose Coil Ref + Voltage Code, example: 492070 for 24 VDC = 492070C2



COIL GROUP

2.0/2.1

ENCAPSULATED
ELECTRICAL PARTS
"mb"

HZ10 COIL DOUBLE FREQUENCY

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

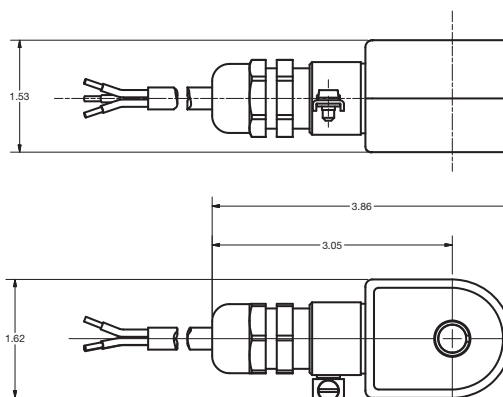
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

The coil is delivered with a 3m cable.



Specification			Double Frequency		
Reference			HZ10		
Certificate			LCIE 02 ATEX 6020 X - IECEx LCI 08.0027 X		
Coil Group			2.0 / 2.1		
Type of protection	Gas	II 2 G - Ex mb IIC T3/T4/T5			
	Dust	II 2 D - Ex tb IIIC T195°C / 130°C / 95°C			
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards		
Ambient temperature			-40°C to +80°C / 65°C / 40°C The application is limited also by the temperature range of the valve.		
Insulation Class			H 180°C		
Duty cycle			100% continuous		
Electrical connection			Cable connection (3 x 1.5 mm²) with cable gland M20 x 1.5, external earth screw connection.		
Elect. Power	DC	Pn (hot)	8 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	8 W		
		Attraction cold	-		
Weight			299 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/60	B2	12	C1
		110/50-120/60	P3	24	C2
		220/50-240/60	Q3	120	C6

To Order a Coil choose Coil Ref + Voltage Code, example: HZ10 for 24 VDC = HZ10C2



Dimensions in Inches.

HZ11 COIL DOUBLE FREQUENCY

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

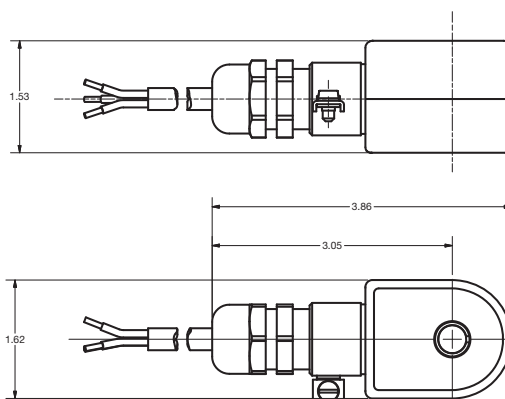
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

The coil is delivered with a 3m cable.



Specification			Double Frequency		
Reference			HZ11		
Certificate			LCIE 02 ATEX 6020 X - IECEx LCI 08.0027 X		
Coil Group			2.0 / 2.2		
Type of protection	Gas	II 2 G - Ex mb IIC T3/T4/T5			
	Dust	II 2 D - Ex tb IIIC T195°C / 130°C / 95°C			
Degree of protection			IP65 (with plug) according to IEC/EN 60529 Standards		
Ambient temperature			-40°C to + 65°C / 40°C The application is limited also by the temperature range of the valve..		
Insulation Class			H 180 °C		
Duty cycle			100% continuous		
Elect. Power	DC	Pn (hot)	14 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	14 W		
		Attraction cold	-		
Weight			299 g		
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/60	B2	12	C1
		110/50-120/60	P3	24	C2
		220/50-240/60	Q3	120	C6

To Order a Coil: Coil Ref + Voltage Code, example: HZ11 for 24 VDC = HZ11C2



Dimensions in Inches.

COIL GROUPS

6.0

FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"

495900 - LOW POWER ELECTRICAL PARTS 37 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

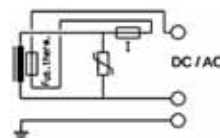
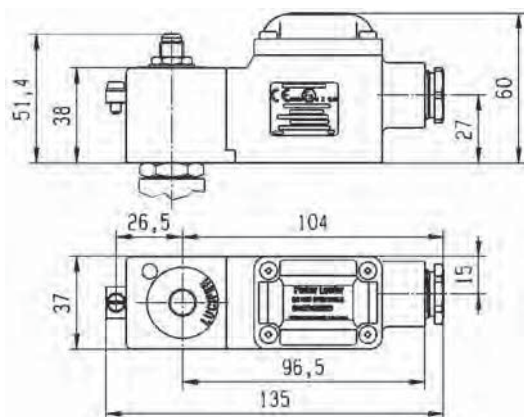
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



Reference			495900 (VAC)		495900 (VDC)	
Certificate			LCIE 03 ATEX 6451 X - IECEx LCI 06.0004 X			
Coil Group			6.0			
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6		II 2 G - Ex db mb IIC T4 / T5 / T6	
		Dust	II 2 D Ex tb IIIC - 130°C / 95°C / 80°C		II 2 D Ex tb IIIC - T130°C / 95°C / 80°C	
Degree of protection			IP67 according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to +80°C / 55°C / 40°C		-40°C to +80°C / 65°C / 55°C	
			The application is limited also by the temperature range of the valve.			
Class of insulation			H (180 °)			
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland			
Elect. Power	DC	Pn (hot)	-		2 W	
		P (cold) 20°C	-		2.5 W	
	AC	Pn (holding)	2.5 W		-	
		Attraction cold	3 W		-	
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC			24/50	A2	24	C2
- 10 % to + 10 % for Un DC.			48/50	A4	48	C4
			115/50	E5	110	C5
			230/50	F4		

To Order a Coil: Coil Ref + Voltage Code, example: 495900 for 24 VDC = 495900C2



FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"



ZONE 1/21

495905 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 is required.

Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

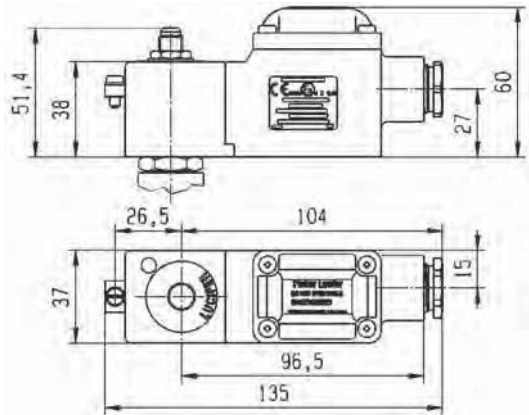
The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



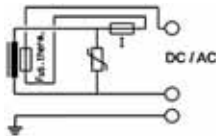
Reference			495905		495905.05*	
Certificate			LCIE 03 ATEX 6451 X - IECEx LCI 06.0004 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G - Ex db mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - 130°C			
Degree of protection			IP67 according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to +80°C The application is limited also by the temperature range of the valve.			
Class of insulation			H (180 °)			
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland.			
Elect. Power	DC	Pn (hot)	8 W			
		P (cold) 20°C	9 W			
	AC	Pn (holding)	8 W			
		Attraction cold	9 W			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC			24/50	A2	24	C2
-10% to +10% for Un DC			48/50	A4	48	C4
			115/50	E5	110	C5
			230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 495905 for 24 VDC = 495905C2

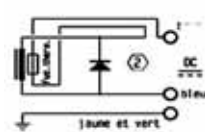
* 495905.05 available only in C4



495905



*495905.05



FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"



496555 & 496560 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

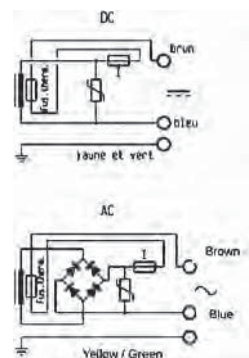
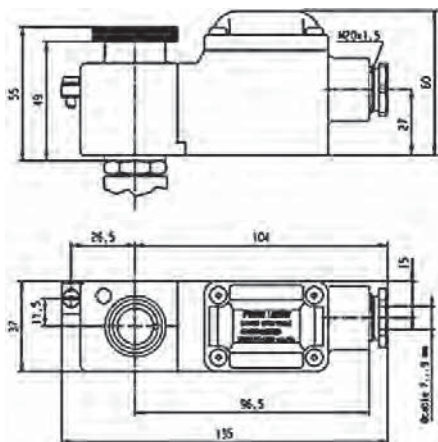
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



Reference			496555			496560				
Certificate			LCIE 07 ATEX 6075 X - IECEx LCI 07.0014X							
Coil Group			10.2			10.1				
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6			II 2 G - Ex db mb IIC T4				
		Dust	II 2 D - Ex tb IIIC - T130°C / 95°C / 80°C			II 2 D - Ex tb IIIC - T130°C				
Degree of protection			IP 67 according to IEC/EN 60529 Standards							
Ambiant temperature			-40°C to +65 / 50 / 35°C			-40°C to +65°C				
			The application is limited also by the temperature range of the valve.							
Class of insulation			H (180 °)							
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland.							
Elect. Power	DC	Pn (hot)	-	6 W	-	8 W				
		P (cold) 20°C	-	7.5 W	-	10.5 W				
	AC	Pn (holding)	6 W	-	8 W	-				
		Attraction cold	7.5 W	-	10.5 W	-				
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			230/50-60	P9	24	C2	230/50-60	P9	24	C2
			110/50-60	P2	48	C4	110/50-60	P2	48	C4
			24/50-60	P0	110	C5	24/50-60	P0	110	C5
			48/50-60	S4			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496555 for 24 VDC = 496555C2



FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"

496700 & 496800 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

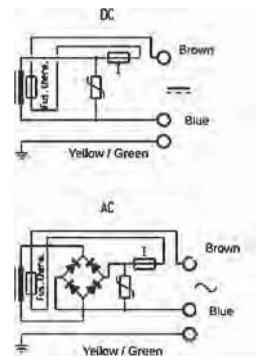
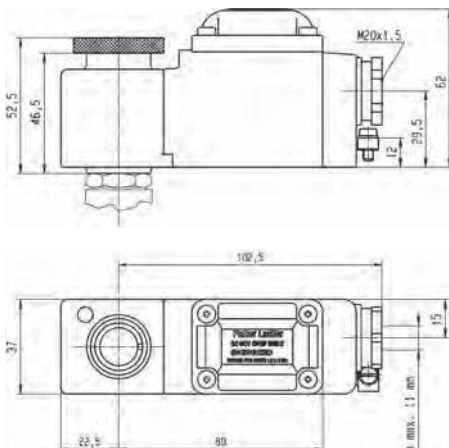
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with 1/2" NPT or M20 x 1.5 threaded hole for wide range of cable glands. Small size for ease of mounting in confined space.



Reference			496700 or 496700.02 (NPT)				496800 or 496800.02 (NPT)			
Certificate			LCIE 10 ATEX 3059 X - IECEx LCI 10.0023X							
Coil Group			10.2				10.1			
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6				II 2 G - Ex db mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - T130 / 95 / 80°C				II 2 D - Ex tb IIIC - T130°C			
Degree of protection			IP67 according to IEC/EN 60529 Standards							
Ambiant temperature			-40°C to +35°C / +50°C / +65°C				-40°C to +65°C			
Class of insulation			The application is limited also by the temperature range of the valve. H (180°)							
Electrical connection			Electric connection is done in the connection box passes through a 1/2 NPT or M20x1.5 thread in which a certified Ex dBIIC cable gland must be installed							
Elect. Power	DC	Pn (hot)	-		6 W		-		8 W	
		P (cold) 20°C	-		7.5 W		-		10.5 W	
	AC	Pn (holding)	6 W		-		8 W		-	
		Attraction cold	7.5 W		-		10.5 W		-	
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			230/50-60	P9	24	C2	230/50-60	P9	24	C2
			110/50-60	P2	48	C4	110/50-60	P2	48	C4
			24/50-60	P0	110	C5	24/50-60	P0	110	C5
			48/50-60	S4			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496700 for 24 VDC = 496700C2



FLAME PROOF ENCAPSULATED
ELECTRICAL PART
"db mb"



493640 OR HZ09 - ELECTRICAL PARTS

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4/T5 is required.

Benefits: Metal armature encapsulated in synthetic material provides high shock and corrosion protection.

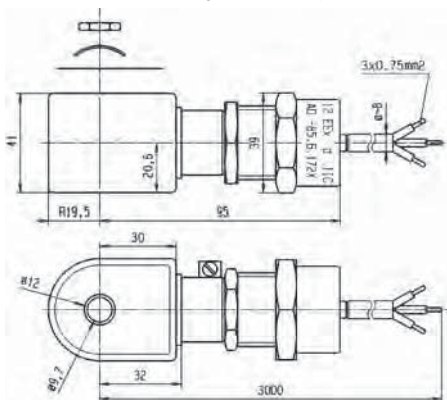
Small size for ease of mounting in confined space.



Reference			493640 493640.60*			
Certificate			LCIE 02 ATEX 6009 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G Ex db mb IIC T4/T5			
		Dust	II 2 D - Ex tb IIIC - T130°C / T95°C			
Degree of protection			IP65 according to IEC/EN 60529 Standards			
Ambiant temperature			- 40°C to +100°C / +75°C The application is limited also by the temperature range of the valve.			
Class of insulation			F (155 °)			
Electrical connection			Special "Ex db" cable gland, galvanized steel, with EPDM sealing. (EPR) cable, outside diameter 7.3 ± 0.5 mm and 3000 mm long.			
Elect. Power	DC	Pn (hot)	8 W			
		P (cold) 20°C	9 W			
	AC	Pn (holding)	8 W			
		Attraction cold	32 VA (9 W)			
Weight			500 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
- 15% to +10% of the Un			110/50	A5	24	C2
			110-120/50-60	P3	48	C4
			220-240/50-60	Q3	120	C6

To Order a Coil choose Coil Ref + Voltage Code, example: 493640 for 24 VDC = 493640C2

* 493640.60 - 6 m cable length - Available only in C2



Fuses

This electrical part is equipped with a standard thermal cut-off fuse on all models and voltages

This electrical part must be connected in series with a safety fuse according to IEC 60127-3.

DC: 24V, 400 mA

AC: 110/50-120/60, 200 mA
220/50-240/60, 100 mA
230/50, 95 mA

INCREASED SAFETY
ELECTRICAL PARTS
"eb"

483371 & 494040 - ELECTRICAL PARTS 50 MM

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb IIC T3 or T4 is required.

Benefits: Rotatable housing 360°, epoxy varnished steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference			483371			494040				
Certificate			LCIE 02 ATEX 6011 X			LCIE 02 ATEX 6013 X				
Coil Group			2.0 / 2.1							
Type of protection		Gas	II 2 G - Ex eb IIC T4			II 2 G - Ex eb IIC T3 / T4				
		Dust	II 2 D - Ex tb IIIC - T130°C			II 2 D - Ex tb IIIC - T195°C / T130 °C				
Degree of protection			IP67 according to IEC/EN 60529 Standards							
Ambiant temperature			-40°C to +65°C			-40°C to +90°C / to +65°C				
			The application is limited also by the temperature range of the valve.							
Class of insulation			F 155°C			H (180°)				
Electrical connection			By special cable gland or M20 x 1.5 "Ex eb" on screw terminals for wires up to 1.5 mm². Cables with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the rubber gland with resilient sealing rings supplied.							
Elect. Power	DC	Pn (hot)	8 W			8 W				
		P (cold) 20°C	9 W			9 W				
	AC	Pn (holding)	8 W			8 W				
		Attraction cold	32 VA (9 W)			32 VA (9 W)				
Weight			320 g							
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	24	C2	220-230/50	3D	24	C2
			48/50	A4	48	C4				
			110-115/50	0A	110	C5				
			220-230/50	3D						

To Order a Coil choose Coil Ref + Voltage Code, example: 483371 for 24 VDC = 483371C2

Fuses:

Both electrical parts have to be connected in series with a safety fuse according to IEC 60127-3.

483371:

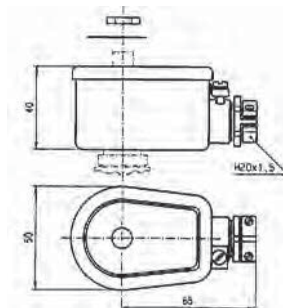
DC: 24 V, 400 mA - 48V, 250 mA - 110 V, 100 mA

AC 50HZ: 24 V, 630 mA - 48V, 315 mA - 110 V, 160 mA - 220/230 V, 80 mA

494040:

DC: 12 V, 400 mA - 24V, 200 mA - 48 V, 100 mA - 110V, 50 mA

AC 50HZ: 24 V, 250 mA - 48V, 125 mA - 110/115 V, 63 mA - 220/230 V, 32 mA



COIL GROUP

10.1

INCREASED SAFETY
AND ENCAPSULATED
ELECTRICAL PARTS "eb mb" 

492310 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb mb II T4 to T5 is required.

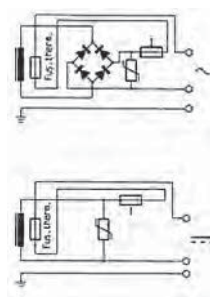
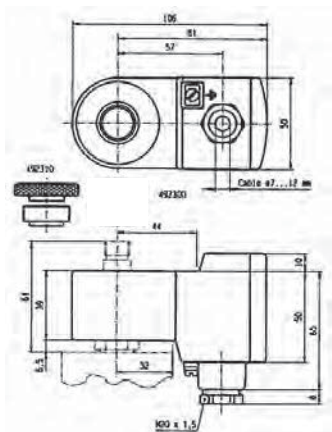
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		492310			
Certificate		LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X			
Coil group		10.1			
Type of protection	Gas	II 2 G - Ex eb mb II T4 / T5			
	Dust	II 2 D - Ex tb IIIC - T130°C / T95°C			
Degree of protection		IP66 according to IEC/EN 60529 Standards			
Ambiant temperature		-40°C to +75°C / to +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Class of insulation		F 155°C			
Electrical connection		Connection box with terminals and cable entry via gland M20 x 1.5 - Possibility for additional earth via external screw.			
Elect. Power	DC	Pn (hot)	6 W		
		P (cold) 20°C	7.5 W		
	AC	Pn (holding)	6 W		
		Attraction cold	7.5 W		
Weight		500 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50-60	P0	24	C2
		48/50-60	S4	48	C4
		230/50-60	P9	110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 492310 for 24 VDC = 492310C2



492210 - ELECTRICAL PARTS "BOOSTER" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection - Ex eb mb IIC T5/T6 is required.

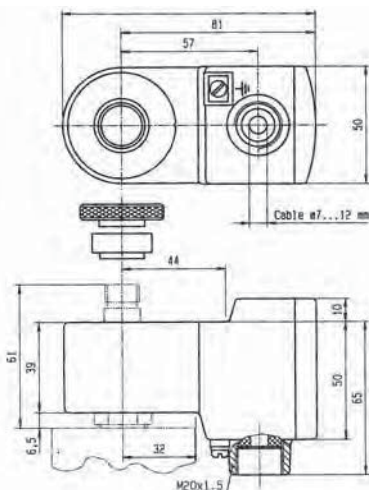
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Available only in 24 VDC (suffix code : C2)

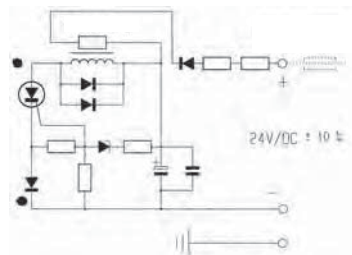


Reference		492210
Certificate		LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X
Coil group		9.0
Type of protection	Gas	II 2 G - Ex eb mb IIC T5 / T6
	Dust	II 2 D - Ex tb IIIC - T95°C / T80°C
Degree of protection		IP66 according to IEC/EN 60529 Standards
Ambient temperature		-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve
Insulation Class		F 155°C
Electrical connection		Connection box with terminals and cable entry via gland M20 x 1.5 Possibility for additional earth via external screw
Power consumption DC		1 to 1.8 W according to length of cable
Attraction current		I min = 60 mA (I nominal = 75 mA)
Voltage DC		U nominal = 24 VDC (C2), Umin = 21.6 VDC
Resistance		23 Ω + (R = 270 Ω)
Inductance		0 mH
Capacitance		0 μF
Response time		2 - 4 s
Weight		500 g

To Order a Coil choose Coil Ref + Voltage Code, example: 492210 for 24 VDC = 492210C2

**Indications:**

Booster for Offshore valves



These electrical parts need an external fuse of I = 100 mA

COIL GROUP

2.0/2.1

INCREASED SAFETY
AND ENCAPSULATED
ELECTRICAL PARTS "eb mb" 



492190 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb mb IIC T3 to T4 is required.

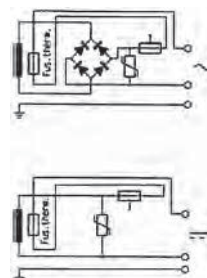
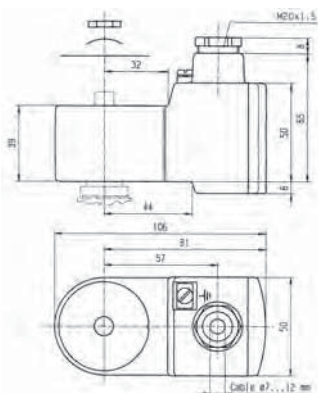
Benefits: Rotatable 360°, fiberglass -reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		492190			
Certificate		LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X			
Coil Group		2.0 / 2.1			
Type of protection	Gas	II 2 G - Ex eb mb IIC T3 / T4			
	Dust	II 2 D - Ex tb IIIC - 195°C / 130°C			
Degree of protection		IP66 according to IEC/EN 60529 Standards			
Ambient temperature		-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Insulation Class		F 155°C			
Electrical connection		Connection box with terminals and cable entry via gland M20 x 1.5 Possibility for additional earth via external screw			
Electrical consumption	DC	Pn (hot)	9 W		
		P (cold) 20°C	11 W		
	AC	Pn (holding)	11 W		
		Attraction cold	13 W		
Weight		320 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		24/50-60	P0	24	C2
		110/50-60	P2	48	C4
		230/50-60	P9	110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 492190 for 24 VDC = 492190C2



INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"

483580 - 483960 ELECTRICAL PARTS 32 mm "IS"

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T6 is required.

Benefits: Fully encapsulated assembly comprising a coil, metal armature, three diodes circuit and DIN plug connection.

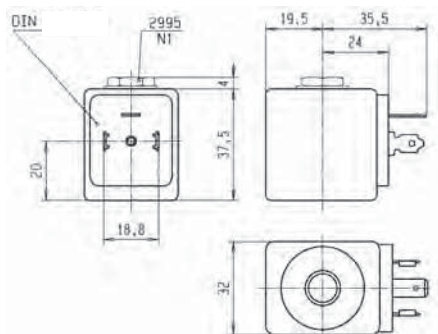
The encapsulation provides an effective compact housing offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined space. Available only in 28 VDC (suffix code : N7)



Reference (without plug) (with plug)		483580.01 483960.01
Certificate		LCIE 02 ATEX 6065 X - IECEx LCI 07.0025 X
Coil Group		7.0
Type of protection	Gas	II 1 G - Ex ia IIC - T6
	Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection		IP65 with plug according to IEC/EN 60529 Standards
Ambient temperature		- 40°C à + 55°C The operating temperature of the valve/coil can be limited by that of the valve.
Electrical connection		The coil is connected with a 2P + E plug according to EN 175301-803 type A Contact 1 is marked as the positive pole ⊕.
Maximum supply voltage		28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 14 VDC.
Power	DC	Minimum
		Maximum
		500 mW
		3 W
		Depending on applied voltage, IS barrier type and resistance of connected cable
Coil resistance at 20°C		340 Ω
Impedance		340 Ω
Apparent inductance		0 mH
Apparent capacitance		0 μF
Weight		160 g (with plug)

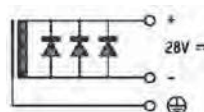
To Order a Coil choose Coil Ref + Voltage Code, example: 483580 for 28 VDC = 483580N7



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 35 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in in appendix section.

These coil must be used with suitable housing : Ref. 2995

COIL GROUP

8.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"495910 - MINIWATT - 0.3 W
ELECTRICAL PARTS "IS" "BOOSTER" 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T4 to T6 is required.

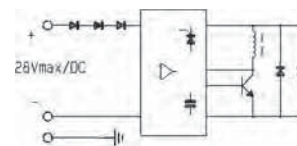
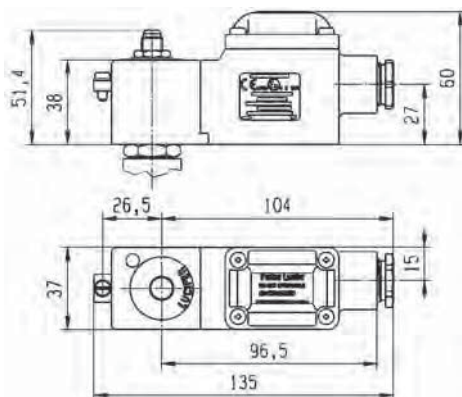
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

Small size for ease of mounting in confined space. Available only in 28 VDC (code: N7).



Reference		495910
Certificate		LCIE 03 ATEX 6464 X - IECEx LCI 07.0006 X
Coil Group		8.0
Type of protection	Gas	II 1 G - Ex ia IIC - T4 / T5 / T6
	Dust	II 1 D - Ex ta IIC T80 / 95 / 130°C
Degree of protection		IP67 according to IEC/EN 60529 Standards
Ambient temperature		- 40°C to +80°C / 75°C / 65°C The application is limited also by the temperature range of the valve..
Class of insulation		H 180°C
Electrical connection		Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 7 mm, Ø max. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland
Maximum supply voltage		28 VDC (N7) - 110 mA
Power	DC	0.3 W (with 13 VDC)
	Maximum	1.2 W (with 24 VDC)
Line check		Depending on applied voltage, IS barrier type and resistance of connected cable
Line check		4 mA or 5 VDC max
Coil resistance at 20°C		Charge ~ 550 Ω - Holding ~ 500 Ω
Impedance		0 mH
Apparent inductance		0 µF
Apparent capacitance		
Response time		2 - 3 s
Weight		500 g

To Order a Coil choose Coil Ref + Voltage Code, example: 495910 for 28 VDC = 495910N7



**496565 ELECTRICAL PARTS "BOOSTER"
"IS" 37 mm**

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T4 to T6 is required.

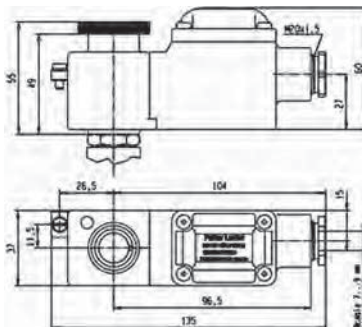
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland. Small size for ease of mounting in confined space. Available only in 28 VDC (code: N7).



Reference	496565	
Certificate	LCIE 08 ATEX 6071 X - IECEx LCI 08.0030 X	
Coil group	9.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T4 / T5 / T6
	Dust	II 1 D - Ex ta IIC - T80 / T95 / T130°C
Degree of protection	IP67 according to IEC/EN 60529 Standards	
Ambiant temperature	- 40°C to +80 / 75 / 65°C The application might also be limited by the temperature range of the valve.	
Electrical connection	Cable connection through a plastic cable gland M20 x 1.5 allowing use of cable diameter from 7 to 12 mm. Additional earth connection possible with external screw terminal.	
Class of insulation	H180°C	
Minimum Current of function	20 mA	
Minimum voltage of function at 60°C	28 VDC (N7)	
Safety parameters	28 V / 110 mA / 0.77 W	28 V / 280 mA / 1.96 W
Maximum acceptable values: Ui (V) / Ii (mA) / Pi (W)	27 V / 120 mA / 0.81 W	27 V / 320 mA / 2.16 W
	26 V / 135 mA / 0.88 W	26 V / 350 mA / 2.27 W
	25 V / 150 mA / 0.94 W	25 V / 390 mA / 2.43 W
	24 V / 170 mA / 1.02 W	24 V / 430 mA / 2.58 W
Line check	4 mA or 5 VDC max	
Apparent Impedance Typ.	Attraction ~ 600 Ω - Holding ~ 570 Ω	
Apparent Inductance	0 mH	
Apparent Capacitance	0 μF	
Response Time Typ.	2 - 4 s	
Weight	500 g	

To Order a Coil choose Coil Ref + Voltage Code,
example: 496565 for 28 VDC = **496565N7**



COIL GROUP

9.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"492965 ELECTRICAL PART
"BOOSTER" "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

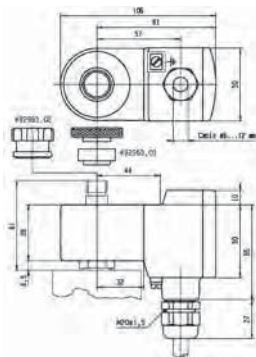
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Small size for ease of mounting in confined space. Available only in 28 VDC.



Reference		492965.01 - (Stainless steel fixation) 492965.02 - (Plastic fixation)
Certificate		LCIE 02 ATEX 6066 X - IECEx LCI 07.0007 X
Coil Group		9.0
Type of protection	Gas	II 1 G - Ex ia IIC - T6
	Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection		IP66 according to IEC/EN 60529 Standards
Ambient temperature		- 40°C to +65°C The application is limited also by the temperature range of the valve.
Electrical connection		Cable connection through a plastic or stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.
Class of insulation		H180°C
Maximum supply voltage		28 VDC (N7) - 110 mA
Power	DC	Minimum
		Maximum
		0.3 W (with 13 VDC)
		2.3 W (with 24 VDC)
		Depending on applied voltage, IS barrier type and resistance of connected cable
Line check		4 mA or 5 VDC max
Coil resistance at 20°C		85 Ω
Impedance		275 Ω (with 13 VDC) - 260 Ω (with 24 VDC)
Apparent inductance		0 mH
Apparent capacitance		0 μF
Response time		2 - 4 s
Weight		500 g

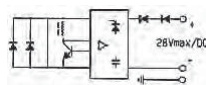
To Order a Coil choose Coil Ref + Voltage Code, example: 492965.01 for 28 VDC = 492965.01N7



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 29 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"482870.01 & 492335 "NEMA"
ELECTRICAL PARTS "IS" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where an explosion-proof protection Ex ia IIC - T6 is required.

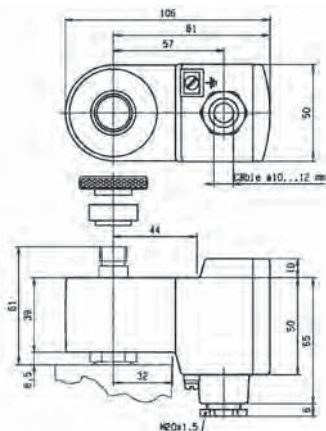
Benefits: Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		482870.01	492335
Certificate		LCIE 02 ATEX 6024 X	LCIE - FM - CSA
Coil Group		12.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T6	Cl. I, Div.I, Gr. A, B, C, D, Cl. II, Div.I, Gr. E, F, G
	Dust	II 1 D - Ex ta IIIC - T80°C	
Degree of protection		IP66 according to IEC/EN 60529 Standards	NEMA 4 - 4X
Ambiant temperature		- 40°C to +65°C The application is limited also by the temperature range of the valve.	+60°C
Class of insulation		H180°C	
Electrical connection		Cable connection through a stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.	
Maximum supply voltage		28 VDC (N7) - 110 mA	30 VDC (L8) - 100 mA
Power	DC	300 mW	
	Minimum	3 W	
		Depending on applied voltage, IS barrier type and resistance of connected cable	
Coil resistance at 20°C		295 Ω	
Impedance		345 Ω	
Apparent inductance		0 mH	
Apparent capacitance		0 μF	
Weight		500 g	

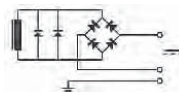
To Order a Coil choose Coil Ref + Voltage Code, example: 492335 for 30VDC = 492335L8



Important

The intrinsic safety supply circuit must have sufficient capacitance in all ambient conditions to guarantee a minimum operating current in excess of **29 mA** across the coil.

The minimum current for holding in the energised position is 20 mA



For the barrier compatibility see the corresponding table in appendix section.

COIL GROUP

7.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"488650.01 & 490885 "NEMA"
ELECTRICAL PARTS "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

Benefits: Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

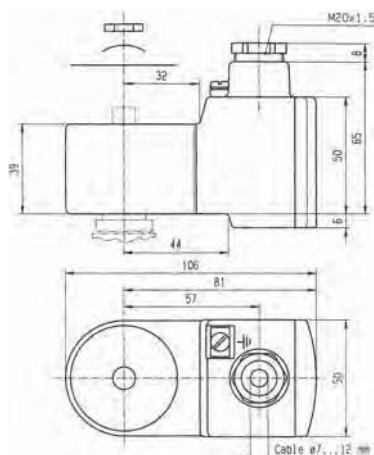
Small size for ease of mounting in confined space.



ZONE 0/20

Reference		488650.01	490885
Certificate		LCIE 02 ATEX 6024 X	LCIE / FM / CSA
Coil Group		7.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T6	Cl. I, Div.I, Gr. A, B, C, D, Cl. II, Div.I, Gr. E, F, G
	Dust	II 1 D - Ex ta IIIC - T80°C	
Degree of protection		IP66 according to IEC/EN 60529 Standards	NEMA 4 - 4X
Ambiant temperature		- 40°C to +65°C The operating temperature of the valve/coil can be limited by that of the valve.	60°C
Electrical connection		Cable entry through a cable gland M20 x1.5. Screw terminals for leads 3 x 1.5 mm ² max. Additional earth connection possible with external screw terminal	
Class of insulation		H180°C	
Maximum supply voltage		28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 11.5 VDC.	30 VDC(L8) - 100 mA
Power	DC	Minimum	300 mW
		Maximum	3 W
		Dependent on the applied voltage, type of barrier IS and the resistance of the connected cable	
Coil resistance at 20°C		295 Ω	
Impedance		345 Ω	
Apparent inductance		0 mH	
Apparent capacitance		0 μF	
Weight		500 g	

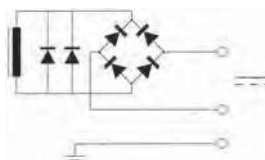
To Order a Coil choose Coil Ref + Voltage Code, example: 490885 for 30VDC = 490885L8



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 29 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"488660.01 & 490890 "NEMA"
ELECTRICAL PARTS "IS" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T6 is required.

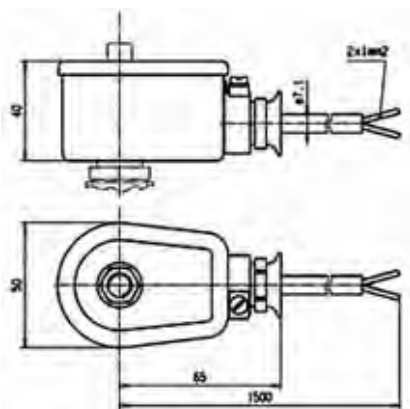
Benefits: Rotatable 360° housing, epoxy varnished steel housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		488660.01	490890
Certificate		LCIE 02 ATEX 6024 X	LCIE / FM / CSA
Coil Group		7.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T6	Cl. I, Div.I, Gr. A, B, C, D
	Dust	II 1 D - Ex ta IIIC - T80°C	Cl. II, Div.I, Gr. E, F, G
Degree of protection		IP67 according to IEC/EN 60529 Standards	NEMA 4 - 4X
Ambient temperature		- 40°C to +65°C The operating temperature of the valve/coil can be limited by that of the valve	+60°C
Electrical connection		Cable connection (2 x 1 mm ²) with cable gland M20 x1.5, external earth screw connection.	
Class of insulation		H180°C	
Maximum supply voltage		28 VDC - 110 mA (N7) The minimum operating voltage at maximum 60°C is 11.5 VDC.	30 VDC - 100 mA (L8)
Power	DC	Minimum	300 mW
		Maximum	3 W
		Dependent on the applied voltage, type of barrier IS and the resistance of the connected cable	
Coil resistance at 20°C		295 Ω	
Impedance		345 Ω	
Apparent inductance		0 mH	
Apparent capacitance		0 μF	
Weight		500 g	

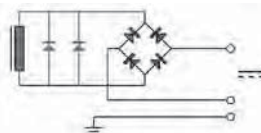
To Order a Coil choose Coil Ref + Voltage Code, example: 490890 for 28 VDC = **490890N7**



Important

The intrinsic safety supply circuit must have sufficient capacitance in all ambient conditions to guarantee a minimum operating current in excess of **29 mA** across the coil.

The minimum current for holding in the energised position is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

COIL GROUP

7.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"

488670.01 - ELECTRICAL PARTS "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

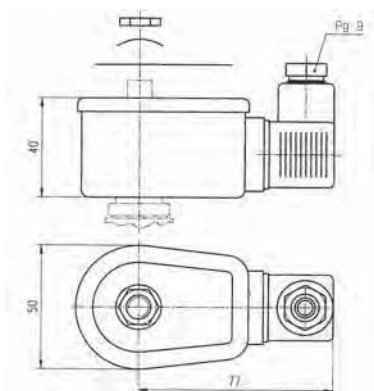
Benefits: Rotatable 360° housing, epoxy varnished steel housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		488670.01
Certificate		LCIE 02 ATEX 6024 X
Coil group		7.0
Type of protection	Gas	II 1 G - Ex ia IIC - T6
	Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection		IP65 according to IEC/EN 60529 Standards
Ambiant temperature		- 40°C to +65°C The operating temperature of the valve/coil can be limited by that of the valve
Electrical connection		Cable entry through a cable gland M20 x1.5. Screw terminals for leads 3 x 1.5 mm ² max. Additional earth connection possible with external screw terminal.
Maximum supply voltage		28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 11.5 VDC.
Power	DC	Minimum Maximum
		300 mW 3 W
		Dependent on the applied voltage, type of barrier SI and the resistance of the connected cable
Coil resistance at 20°C		295 Ω
Impedance		345 Ω
Apparent inductance		0 mH
Apparent capacitance		0 μF
Weight		500 g

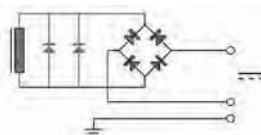
To Order a Coil choose Coil Ref + Voltage Code, example: 488670.01 for 28 VDC = 488670.01N7



Important

The intrinsic safety supply circuit must have sufficient capacitance in all ambient conditions to guarantee a minimum operating current in excess of **29 mA** across the coil.

The minimum current for holding in the energised position is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

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COIL STANDARD HOUSING WITH SCREW TERMINALS

Standard housing:

Reference:	4270
Material:	Epoxy vernished steel with cataphoresis traitement
Degree of protection:	IP according to IEC/EN 60529 IP 10 with armoured conduit IP 44 with cable gland
Electrical connection:	Can be made with armoured conduit or cable gland M12x1.5. Parts No. 495740 (cable gland M12x1.5) and 484093 to be ordered separately. Grounding connection by screw M3 on the inside of housing base plate.
Weight:	120 g



Benefits:

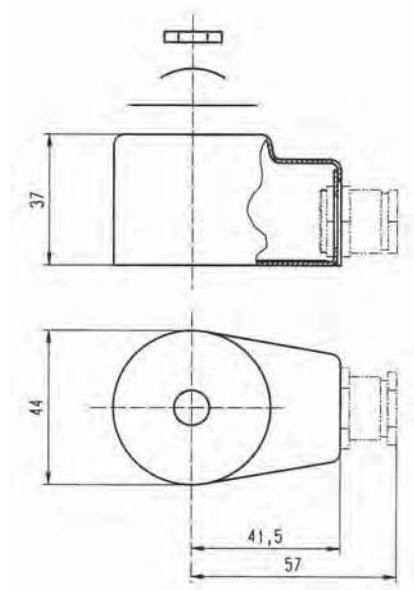
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

Application:

The majority of the Lucifer® valves can be fitted with this standard housing, and can be mounted with several compatible Lucifer® coils group.

Compatible coils:

- **481000 - Standard Coil**
8 W Class F (155°C)
- **483520 - Double-Frequency Coil**
9 W Class F (155°C)
- **481044 - Standard High-Power Coil**
14 W Class F (155°C)
- **485100 - Standard High-Temperature Coil**
8 W Class H (180°C)
- **486265 - High-Temperature and High-Power Coil**
14 W Class H (180°C)



HOUSING

4269**HOUSING FOR BISTABLE
(IMPULSE) COILS****Housing for bistable coil:**

Reference:	4269
Material:	Epoxy vernished steel
Degree of protection:	IP according to IEC/EN 60529 IP 10 with armoured conduit IP 44 with cable gland
Electrical connection:	Can be made with armoured conduit or cable gland M12x1.5. Parts No. 484092 and 484093 to be ordered separately. Grounding connection by screw M3 on the inside of housing base plate.
Weight:	120 g

**Benefits:**

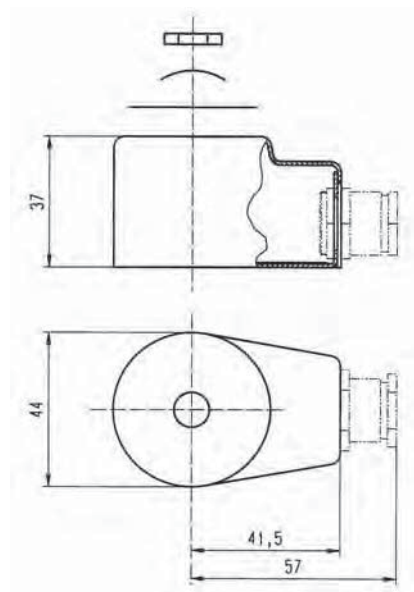
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

Application:

This housing is specially designed for group 4.0 coils and can be mounted only with valves controlled by electrical impulses.

Compatible coils:

- **484990 - Impulse coil for AC**
11 W Class F (155°C)
- **485400 - Impulse coil for DC**
13 W Class F (155°C)



WATERPROOF AND DUSTPROOF HOUSING

Waterproof housing:

Reference:	4538
Material:	Epoxy vernished steel
Degree of protection:	IP according to IEC/EN 60529 IP 67 with cable gland
Electrical connection:	Cable connection by cable gland M20x1.5 according to DIN 46320. Cable with outer diameter 6.5 - 13.5 mm can be simply sealed using a rubber gland with resilient sealing rings. The enclosure is internally and externally fitted with grounding and earthing screw terminals.
Weight:	180 g



Benefits:

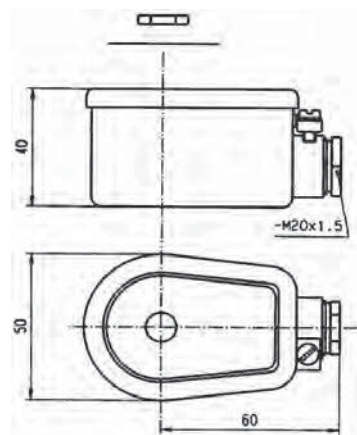
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - easy access to the screw terminals - single-nut mounting - light weight - simple conversion of existing electrical equipment to other requirements without interruption of fluid passage in the valve.

Application:

This housing can be equipped with several coils of our range, like the standard, double-frequency and magnetic latch coils.

Compatible coils:

- **481000 - Standard Coil**
8 W Class F (155°C)
- **483520 - Double-Frequency Coil**
9 W Class F (155°C)
- **484990 - Impulse Coil for AC**
11 W Class F (155°C)
- **485400 - Impulse Coil for DC**
13 W Class H (180°C)



HOUSING

8520**WATERPROOF HOUSING
FOR HIGH-TEMPERATURE COILS****Waterproof housing:**

Reference:	8520
Material:	Epoxy varnished steel
Degree of protection:	IP according to IEC/EN 60529 IP 67 with cable gland
Electrical connection:	Cable connection by cable gland M20x1.5 according to European standards. Cable with outer diameter 6.5 - 13.5 mm can be simply sealed using a rubber gland with resilient sealing rings. The enclosure is internally and externally fitted with grounding and earthing screw terminals.
Weight:	180 g

**Benefits:**

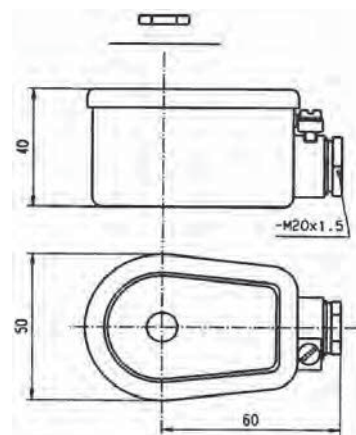
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - easy access to the screw terminals - single-nut mounting - light weight - simple conversion of existing electrical equipment to other requirements without interruption of fluid passage in the valve.

Application:

The majority of the Parker Lucifer® valves can be fitted with this housing and can be mounted with several compatible Parker Lucifer® coils for high temperature (14 W, 8 W Class F or H).

Compatible coils:

- **481044 - High Power Coil**
14 W Class F (155°C)
- **486265 - High Power Coil**
14 W Class H (180°C)
- **485100 - Coil for High Temperature**
8 W Class H (180°C)



22 mm

32 mm

COIL ASSEMBLY KITS

COIL ASSEMBLY KIT FOR 22 mm COIL

The coil assembly kit corresponds to the numbering system for Parker Lucifer® valve housings (Valve - housing - coil/voltage).

It is composed of a nameplate with the details of the valve type, a washer and a nut to secure the 22 mm coil to the valve.

Caution: This coil assembly kits for 22 mm coils are not adapted for high flow valves, ask your distributor for the adapted kit.



KIT OF 100 PIECES

Reference	Specification	Application
488993.50	Standard - aluminium nameplate - passivated washer and nut - pressure indication in [bar]	Standard valves

COIL ASSEMBLY KIT FOR 32 mm COIL

The coil assembly kit corresponds to the "housing" of Parker Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



KIT OF 100 PIECES

Reference	Specification	Application
482995.50	Standard - Aluminium nameplate - Passivated iron washer and nut - Pressure indication in [bar]	Standards valves

ACCESSORIES

DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 -B

No. 481043 for Parker Lucifer® coil
No. 600040 for Parker coil

Electrical connection suitable for all 22 mm coils
(e.g. 488980, 481180)



DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 - A

No. 486586 for standard Parker Lucifer® version
No. 492645 for high temperature Parker Lucifer® version
No. 600004 for Parker version

Electrical connection suitable for all 32 mm coils
(e.g. 481865, 492425)



METALIC ASSEMBLY KIT

Nut No. 482213 M14 x 1+ Ring No. 482214 +
O-Ring No. 483917

Coil assembly kit for offshore electrical parts
(e.g. 482870.01, 492210, 492965.01, 496565, 496700)



PLASTIC NUT WITH METAL INSERT

No. 8886

For Oil & Gaz electrical parts
(e.g. 492965.01)



CABLE GLAND

No. 492398 - Pg 13.5 -Ex eb II
No. 493841 - M20x1.5 - Ex ia IIC

Electrical connection and mooring cable with 6 to 12 mm diameter, for electrical parts approved "eb mb" or "ia"
(e.g. 492190, 492965....)



CABLE GLAND

No. 493426 - 1/2"-14 NPT

Electrical connection and mooring cable with 6 to 12 mm diameter, for flameproof approved electrical parts
(e.g. 493640)





INTRODUCTION

Current European regulations concerning electrical equipment for potentially explosive environments are based on optional and partial European directives which require regular modification in the form of application or adaptation directives in order to keep pace with technical developments.

The basic European text in this field, directive **76/117/EC**, which allow the free circulation of goods within the European Union, provides the general framework for the present regulations.

Electrical equipment for use in potentially explosive environments is certified by a government-approved body when it meets relevant European standards (EN 60079-0 and upwards) covering each type of protection (**db, ia, eb, m, p**, etc). Such equipment is then issued with a **an EC type examination certificate**, entitling it to carry the distinctive marking.

This mark opens the way for trading within the European Union and occasionally beyond.

Although largely beneficial, it has revealed certain drawbacks, notably a lack of flexibility and the absence of a global concept for safety. It has now been completely revised by the **new European directive 94/9/EC from March 23, 1994**.

The EC type examination certificate to harmonised standards obtained in compliance with previous directives will remain valid until June 30, 2003, but their validity will cover only conformity to the harmonised standards specified in these directives.

EUROPEAN MEMBER COUNTRIES





DEFINITIONS

EXPLOSIVE ENVIRONMENTS

Mixture with air, under atmospheric conditions, of flammable substances in the form of gases, vapours, mists or dusts in which, after combustion has occurred, combustion spreads to the entire unburned mixture.

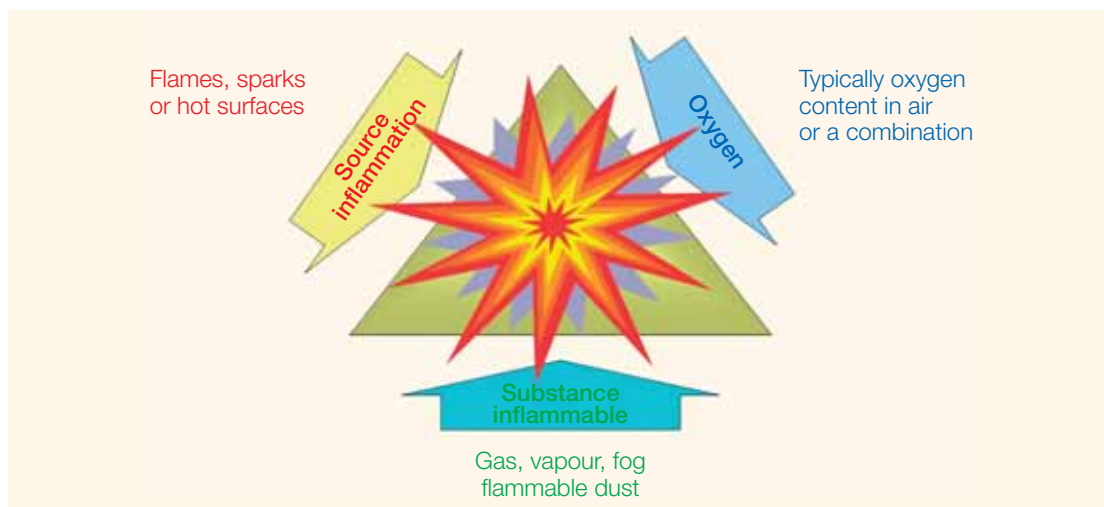
HAZARDOUS AREAS

A hazardous area is an area in which an explosive gas environment is present, or may be expected to be present, in quantities such as to require special precautions for construction, installation and use of electrical apparatus.

INGREDIENTS FOR AN EXPLOSION

- When combustible materials are mixed with air, an explosive mixture is produced. Danger of explosion therefore exists wherever these hazardous materials are handled: such a condition is to be found on the biggest chemical plant as well as at the smallest filling station.
- Nowadays with the use of electronic and electrical instrumentation in process control, the risk of combustion by electrical energy has increased sharply.
- To protect personnel and expensive equipment special precautions should be taken to prevent combustion of those dangerous substances. Conditions likely to ignite explosive mixtures are as follows:

Three conditions are enough to create an explosion.





DEFINITIONS

ZONES

The hazardous areas are classified in zones based on the frequency of the occurrence and the duration of an explosive gas or dust environment as follows:

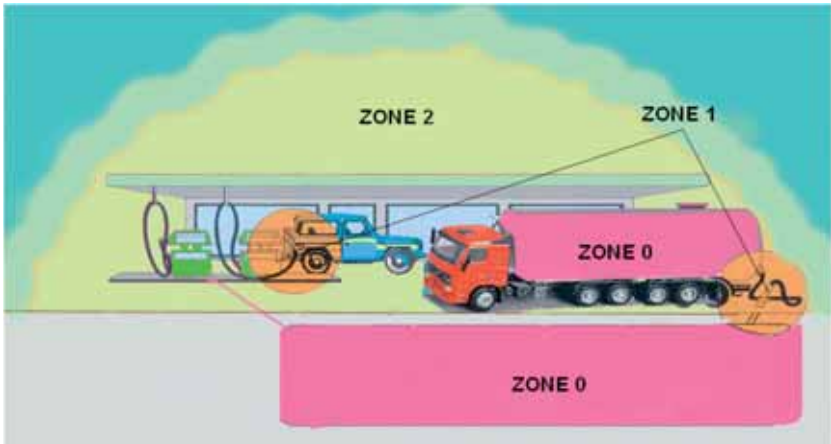
Zone 0 (20)	Zone 1 (21)	Zone 2 (22)
An area in wich an explosive gas (dust) atmosphere is present CONTINUOUSLY or is present for LONG PERIODS (~1000 h/y).	An area in wich an explosive gas (dust) atmosphere is present LIKELY TO OCCUR in normal operation (~10 to 999 h/y).	An area in wich an explosive gas (dust) atmosphere is not LIKELY TO OCCUR and if it does occur it will exist for short period only (~1 to 10 h/y).
Mode of protection: ia - ma - px - ...	Mode of protection: db - eb - ib - mb - pxb - ...	Mode of protection: nc - mc - ic - pz - ...

HAZARDOUS LOCATION CLASSIFICATION

Explosive Environment	Continuous Presence	Intermittent Presence (normal operation conditions)	Occasional Presence (abnormal operation)
IEC	Zone 0 (gas) Zone 20 (dust)	Zone 1 (gas) Zone 21 (dust)	Zone 2 (gas) Zone 22 (dust)
Europe	Zone 0 (gas) Zone 20 (dust)	Zone 1 (gas) Zone 21 (dust)	Zone 2 (gas) Zone 22 (dust)
Canada (CEC) ¹ USA (NEC) ²	Cl. I Div. 1 (gas) Cl. II Div. 1 (dust) Cl.III Div. 1 (fibres)	Cl. I Div. 1 (gas) Cl. II Div. 1 (dust) Cl.III Div. 1 (fibres)	Cl. I Div. 2 (gas) Cl. II Div. 2 (dust) Cl.III Div. 2 (fibres)

¹ (CEC): Code Canadien d'Electricité / ² (NEC): National Electrical Code

Example:





DEFINITIONS

HAZARDOUS LOCATION CLASSIFICATION

Category	Fault protection	Atmosphere	Zone	Example of protections
----------	------------------	------------	------	------------------------

EC Type examination by Notified Body → annex III

1 Very high level	2 types of protection or 2 independent faults	G (Gas)	0	"ia", "ma", "px" or "ia-ma", "db/eb"
		D (Dust)	20	

EC Type examination by Notified Body → annex III

2 High level	One type of protection Habitual frequent malfunction	G (Gas)	1	One type of protection lb, db, mb, eb, py, o, ...
		D (Dust)	21	

Internal production inspection → EC declaration of conformity

3 Normal	Required level of protection	G (Gas)	2	n, ic, pz, ... A, C, L, P, R
		D (Dust)	22	

Hazardous Location Classification

Group	Gas Reference
I	Methane
IIA	Propane
IIB	Ethylene
IIC	Hydrogen / Acetylene

Group	Dust Reference
-	-
IIIA	Fibres
IIIB	Non-conductive dust
IIIC	Conductive dust

Surface Temperature Classes

Class Temperature	Max. Temperature	°C	Gas & Ignition Temperature
T1	450°C	600	560°C Hydrogen T1
T2	300°C	500	537°C Methane T1
T3	200°C	400	425°C Ethylene T2
T4	135°C	300	305°C Acetylene T2
T5	100°C	200	210°C Kerosene T3
T6	85°C	100	160°C Ethylether T4
		0	95°C Carbon disulphide T6



PROTECTION MODES

PROTECTION MODES

Concept	Gas	Code	Dust	Gas	Zones	Dust
Flameproof enclosure	db		tb	1/2		21/22
Encapsulation	ma / mb / mc		tb / tc	0/1/2		20/21/22
Increased Safety	eb		-	1/2		-
Intrinsic Safety	ia / ib / ic		ta / tb / tc	0/1/2		20/21/22
Pressurized apparatus	pxb / py / pz		pD	1/2		21/22
Concept Cat. 3 apparatus	nA		-	2		-
	nL		-	2		-
	nR		-	2		-
	nC		-	2		-

In red, protection modes used by parker FCDE.



STANDARDS AND PROTECTION MODES

APPARATUS FOR EXPLOSIVE GAS ATMOSPHERES
EQUIPMENT GROUP II

EPL	Standards EN / IEC	Protection	Title
	60079-0	-	General requirements
Ga	60079-11	ia	Intrinsic safety
	60079-18	ma	Encapsulation
	60079-26		Equipment with equipment protection level (EPL) Ga (Zone 0)
	60079-28	op is	Protection of equipment and transmission systems using optical radiation
Gb	60079-1	db	Flameproof enclosures
	60079-2	p, pxb, py	Pressurized enclosures
	60079-5	q	Powder filling
	60079-6	o	Oil immersion
	60079-7	eb	Increased safety
	60079-11	ib	Intrinsic safety
	60079-18	mb	Encapsulation
	60079-25		Intrinsically safe systems
	60079-27		Fieldbus intrinsically safe concept (FISCO)
	60079-28	op is op pr op sh	Protection of equipment and transmission systems using optical radiation
Gc	60079-11	ic	Intrinsic safety
	60079-18	mc	Encapsulation
	60079-15	nA	Non sparking
	60079-15	nR	Restricted breathing enclosure
	60079-15	nL	Limited energy (only old edition)
	60079-15	nC	Equipment producing operational sparks
	60079-2	pz	Pressurized enclosures
	60079-27		Concept de réseau de terrain de sécurité intrinsèque (FISCO)
	60079-28	op is op pr op sh	Protection of equipment and transmission systems using optical radiation

EPL = Equipement Protection Level

In red, protection modes used by parker FCDE.



STANDARDS AND PROTECTION MODES

ELECTRICAL EQUIPMENT FOR USE IN AREAS
WITH COMBUSTIBLE DUST - EQUIPMENT GROUP III

EPL	Standards EN / IEC	Protection	Title
	60079-0	-	General requirements
Da	60079-31	ta	Protection by enclosure
	60079-11	ia	Protection by intrinsic safety (iaD IEC/EN 61241-11)
	61241-18	ma	Protection by encapsulation
Db	60079-31	tb	Protection by enclosure
	60079-11	ib	Protection by intrinsic safety (ibD IEC/EN 61241-11)
	60079-18	mb	Protection by encapsulation
	IEC 61241-4	pD	Type of protection "pD"
Dc	60079-31	tc	Protection by enclosure
	60079-11	ic	Protection by intrinsic safety
	60079-18	mc	Protection by encapsulation
	IEC 61241-4	pD	Type of protection "pD"

EPL = Equipement Protection Level

In red, protection modes used by parker FCDE.

NON ELECTRICAL EQUIPMENT FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERE

Standards	Protection	Title
EN 13463-1	-	Basic method and requirements
EN 13463-2	fr	Protection by flow restricting enclosure
EN 13463-3	db	Protection by flameproof enclosure
EN 13463-5	c	Protection by constructional safety
EN 13463-6	b	Protection by control of ignition source
EN 13463-7	p	Protection by pressurized enclosure
EN 13463-8	k	Protection by liquid immersion

ZONES AND EQUIPEMENT PROTECTION LEVEL (EPL)

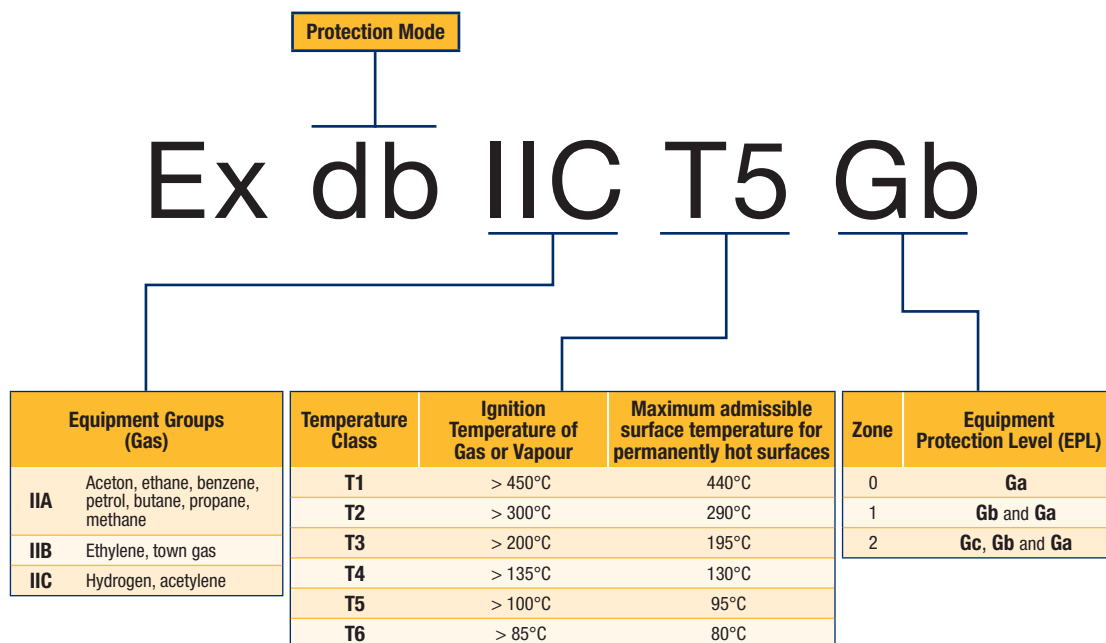
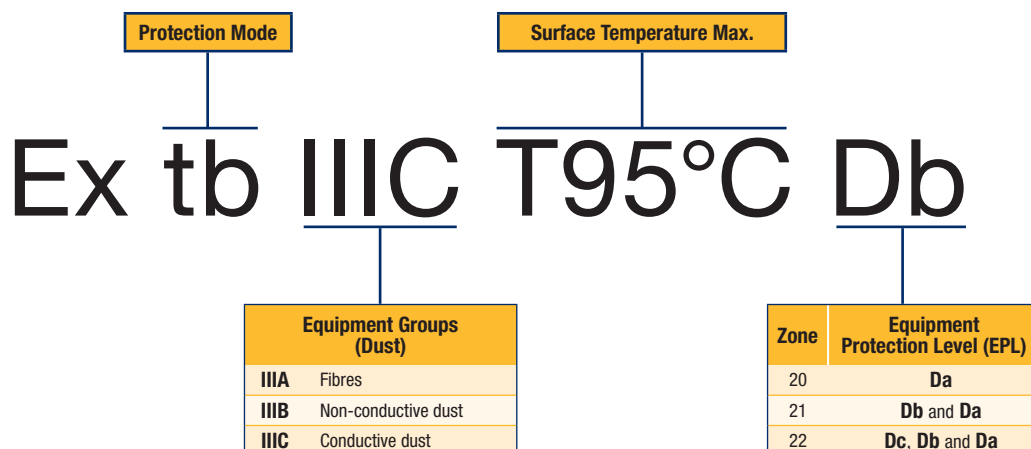
Zone	Gas	EPL	Zone	Dust	EPL
0		Ga	20		Da
1		Ga and Gb	21		Da and Db
2		Ga, Gb and Gc	22		Da, Db and Dc

CATEGORIES AND EQUIPEMENT PROTECTION LEVEL (EPL)

Categories	Gas	Dust	Safety
1	Ga	Da	Very high
2	Gb	Db	High
3	Gc	Dc	Normal



EXAMPLES OF MARKING

ELECTRICAL APPARATUS FOR EXPLOSIVE GAS ATMOSPHERES
EQUIPMENT GROUP IIELECTRICAL EQUIPMENT FOR USE IN AREAS
WITH COMBUSTIBLE DUST - EQUIPMENT GROUP III



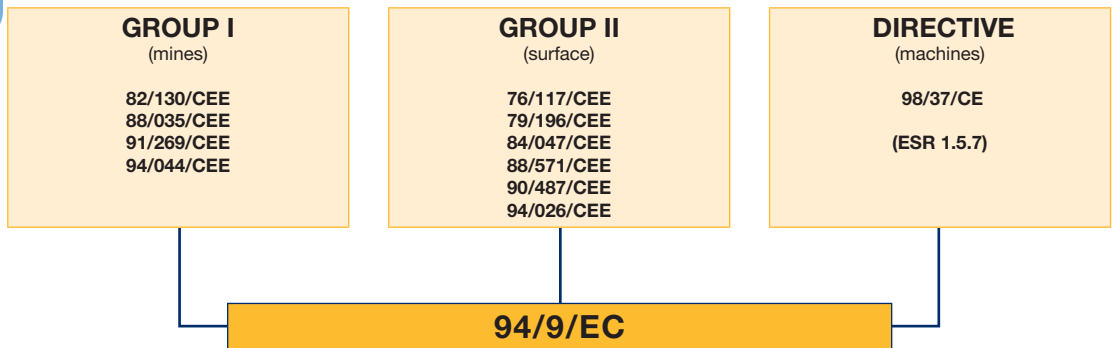
WHAT ABOUT THE DIRECTIVE ? (94/9/EC - 1994-03-23)

WHAT ABOUT THE DIRECTIVE ? (94/9/EC - 1994-03-23)

In keeping with the "**new approach**", the new directive lays down the framework for a total harmonization of regulations covering this field.

It makes no direct references to standards but sets out the essential health and safety requirements to be met and introduces the **CE** marking.

ATEX 100 A DIRECTIVE - NEW APPROACH



THE FRAMEWORK OF THE DIRECTIVE

The main principles of the new directive can be summarized as follows:

- It applies to **electric** and **non-electric** equipment.
- It defines **essential health and safety requirements**.
- It takes into consideration **all potential hazards** equipment may cause, in particular at design and production level.
- **The one directive** applies to both **mines** susceptible to fire damp and **surface industries**.
- It stresses the importance of equipment being **used in accordance with its intended purpose**.
- It recognises The European Standards Committee **CEN** and the European Committee for Electrotechnical Standardisation **CENELEC** as competent bodies to fix the required harmonised standards.
- It provides for the **contribution of labour and management**.
- It defines **procedures for assessing conformity** to essential requirements, on the basis of modules which qualify equipment to carry the **CE** mark of conformity.

APPLICATIONS

The directive applies to the industrial field and concerns the following equipment:

- **Equipment** (machines, apparatus, etc.)
- **Protective systems** (discharge devices, explosion suppression devices, etc.)
- **Components** (parts with no autonomous function, terminals, etc.)
- **Safety devices, controlling devices and regulating devices** intended for use outside potentially explosive environments but required for safety with respect to explosions (relays, barriers, pressure switches, thermostats, etc.)



WHAT ABOUT THE DIRECTIVE ? (94/9/EC - 1994-03-23)

EXCLUDED FROM THE SCOPE OF THE NEW DIRECTIVE

The following equipment falls outside the scope of the new directive:

- Medical devices intended for use in a medical environment.
- Equipment and protective systems relating only to the risk of explosion of unstable chemical substances (explosives, etc.)
- Equipment intended for use in domestic and non-commercial environments.
- Personal protective equipment covered by directive 89/686/EC.
- Seagoing vessels and mobile offshore units.
- Means of transport, except for vehicles intended for use in a potentially explosive environment.

APPLICATION DATES

ATEX 100A DIRECTIVE - NEW APPROACH

94/9/EC

Application dates	
• Transposition to national law	1/9/1995
• Application (optional)	1/3/1996
• Application (total)	1/7/2003

POTENTIAL IGNITION SOURCES AND OTHER HAZARDS TO BE CONTROLLED

The following all represent potential hazards:

- Various sources of ignition, such as sparks, flames, electric arcs, high surface temperature, acoustic energy, optical radiation or electromagnetic waves.
- Static electricity.
- Pressure compensation operations.
- Disturbance from external sources, such as changing environmental conditions, extraneous voltage, humidity, vibration or contamination.

Provision is also made for specific requirements governing devices used to provide additional equipment safety.

These requirements necessitate detailed analysis to assess the operational reliability of such devices and their interaction with other components connected with the equipment.



GUIDANCE CHART FOR IS-BARRIERS

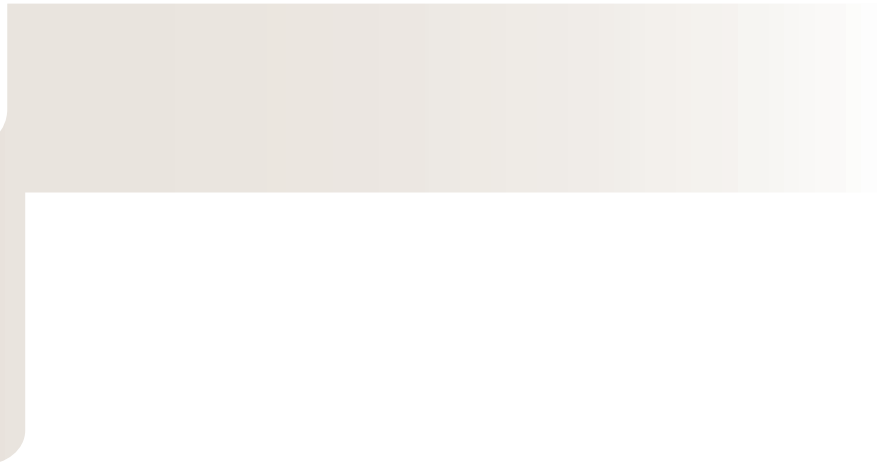
Manufacturer	Reference	Ex	IS Standard Electrical Parts							IS Booster Electrical Parts		
			Ex ia IIC T6 488650.01/02 488660.01 LCIE/AUS	Ex ia IIC T6 490885 490890 (490895) LCIE/FM/CSA	Ex ia IIC T6 483580.01/03 483960.01/03 LCIE/AUS	Ex ia 490880 (493997) LCIE/FM/CSA	Ex ia IIB T6 482160.01 LCIE	Ex ia IIC T6 482870.01 LCIE	Ex ia 492335 LCIE/FM/CSA	Ex ia IIC T6 492965.01/02 LCIE	Ex ia IIC T6 496565 LCIE	Ex ia IIC T6 495910 LCIE
A puissance 3	NAEV 22-140	ia	●	-	●	-	●	●	-	●	●	●
	NAEV 26-100	ia	●	-	●	-	●	●	-	●	●	●
ABB	V171132-54	ib	●	-	●	-	●	●	-	●	●	●
	V171132-55	ib	●	-	-	-	●	●	-	●	●	●
	V171132-61	ia	●	-	-	-	●	●	-	●	●	●
	D0 890	ib	●	-	●	-	●	●	-	●	●	●
	S900-D04-EX	ib	●	-	●	-	●	●	-	●	●	●
BRADLEY	FEX-EX 24V	ia	●	●	●	●	●	●	-	●	●	●
COOPER	LB 2101	ia	●	●	●	●	●	●	●	●	●	●
	LB 2105	ia	●	●	●	●	●	●	●	●	●	●
	LB 2112	ia	●	●	●	●	●	●	●	●	●	●
ELCON	1881 / 1882	ia	●	●	●	●	●	●	●	●	●	●
	471 / 472	ia	●	●	●	●	●	●	●	●	●	●
	2871/2872	ia	●	●	●	●	●	●	●	●	●	●
	2874/2875/2876	ia	●	●	●	●	●	●	●	●	●	●
GEORGIN	AVB 122	ia	●	-	●	-	●	●	-	●	●	●
	AVB 125	ia	●	-	●	-	●	●	-	●	●	●
	AVB 128	ia	●	-	●	-	●	●	-	●	●	●
Hima	F3328A	ib	●	-	●	-	●	●	-	●	●	●
	F3335	ib	●	-	-	-	●	●	-	●	●	●
	H4007	ib	●	-	●	-	●	●	-	●	●	●
MTL	728P, 7128P, 7728P	ia	-	-	-	-	●	-	-	●	●	●
	728, 7028, 7128, 7728	ia	●	●	●	●	●	●	●	●	●	●
	3021, 4021, 4021S	ia	●	-	●	-	●	●	-	●	●	●
	3022	ia	-	-	-	-	●	-	-	-	-	-
	4023	ia	-	-	-	-	●	-	-	-	-	-
	4024	ia	●	-	●	-	●	●	-	●	●	●
	4025	ia	●	●	●	●	●	●	●	●	●	●
	5021, 5023, 5024	ia	●	-	●	-	●	●	-	●	●	●
	5025	ia	●	-	●	-	●	●	●	●	●	●
	4521 / 4523 / 4524	ia	●	-	-	-	●	●	●	●	●	●
	5521 / 5523 / 5524	ia	●	-	-	-	●	●	●	●	●	●
	Z 728	ia	●	●	●	●	●	●	●	●	●	●
	Z 779	ia	●	●	●	●	●	●	●	●	●	●
Pepperl & Fuchs	EGA-041-3	ia	-	●	●	●	●	●	●	●	●	●
	KFD2-SD-EX1.36	ia	-	-	-	-	-	●	-	-	-	-
	KFD2-SL-EX1.36	ia	-	-	-	-	-	●	-	-	-	-
	KFD2-SD-EX1.48	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL-EX1.48	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL- EX1.48.90A	ia	-	-	-	-	-	-	-	●	●	●
	KFD2-SL- EX1.48.90A	ia	-	-	-	-	-	-	-	●	●	●
	KFD2-SL2-EX1.LK	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL2-EX2	ia	-	●	-	●	-	●	●	●	●	●
	KSD2-B0-EX	ia	-	●	●	●	●	●	●	●	●	●
	RSD-B0-EX4	ib	-	●	-	●	-	●	●	●	●	●
	RSD-V0-EX8	ib	-	-	-	-	-	-	-	●	●	●



GUIDANCE CHART FOR IS-BARRIERS

Manufacturer	Reference	Ex	IS Standard Electrical Parts							IS Booster Electrical Parts		
			Ex ia IIC T6 488650.01/02 488660.01 LCIE/AUS	Ex ia IIC T6 490885 490890 (490895) LCIE/FM/CSA	Ex ia IIC T6 483580.01/03 483960.01/03 LCIE/AUS	Ex ia 490880 (493997) LCIE/FM/CSA	Ex ia IIB T6 482160,01 LCIE	Ex ia IIC T6 482870,01 LCIE	Ex ia 492335 LCIE/FM/CSA	Ex ia IIC T6 492965.01/02 LCIE	Ex ia IIC T6 496565 LCIE	Ex ia IIC T6 495910 LCIE
SIEMENS	5RD00-OAB0	ib	-	-	-	-	-	-	-	●	-	-
	7RD00-OAB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD01-OAB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD10-OAB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD11-OAB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD20-OAB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD21-OAB0	ia	-	-	-	-	-	-	-	●	●	●
STAHL	9001/01-252-100-14	ia	●	●	27 V	27 V	●	●	●	●	●	●
	9001/01-280-100-10	ia	●	●	24 V	24 V	●	●	●	●	●	●
	9001/01-280-110-10	ia	●	-	24 V	-	●	●	-	●	●	●
	9002/13-280-100-04	ia	24 V	24 V	27 V	27 V	24 V	24 V	24 V	17 V	17 V	17 V
	9311/52-11-10	ia	-	●	●	25 V	25 V	●	●	15 V	15 V	15 V
	9111/63-11-00	ia	-	●	●	25 V	25 V	●	●	15 V	15 V	15 V
	9351/10-15-10	ia	-	●	●	-	-	●	●	●	●	●
	9351/10-16-10	ia	-	●	●	●	-	●	●	●	●	●
	9351/10-17-10	ia	-	-	-	-	-	●	-	-	-	-
	9381/10-187-050-10	ib	-	●	●	●	●	●	●	●	●	●
	9381/10-246-055-10	ib	-	●	●	●	●	●	●	●	●	●
	9381/10-246-070-10	ib	-	●	●	●	●	●	●	●	●	●
	9465/12-04-11	ib	-	●	●	-	-	●	●	●	●	●
	9475/12-04-21	ia/ib	-	●	-	●	-	●	●	●	●	●
	9475/12-04-31	ia/ib	-	-	-	-	-	-	-	●	●	●
	9475/12-08-41	ia/ib	-	-	-	-	-	-	-	-	-	-
	9475/12-08-51	ib	-	-	-	-	-	-	-	●	●	●
	9475/12-08-61	ia/ib	-	-	-	-	-	-	-	-	●	●
Turck	MK72-S01-EX	ib	-	-	-	-	●	●	-	●	●	●
	MK72-S02-EEX	ib	-	-	-	-	●	●	-	●	●	●
	MK72-S04-EEX	ib	●	-	●	-	●	●	-	●	●	●
	MK72-S05-EEX	ib	●	-	-	-	●	●	-	●	●	●
	MK72-S06-EEX	ib	●	-	●	-	●	●	-	●	●	●
	MK72-S07-EEX	ib	●	-	-	-	●	●	-	●	●	●
	MK72-S09-EEX	ia	-	-	-	-	-	-	-	-	-	-
	MK72-S12-EEX	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 41	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 43	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 44	ia	-	-	-	-	-	-	-	●	●	●
BARTEC	07-7331-2301/1000	ia	●	-	-	-	●	●	-	●	-	-
	07-7331-2301/1100	ia	●	-	●	-	●	●	-	●	-	-

If barrier reference not listed, consult factory for compatibility (tech.support@parker.com)



TECHNICAL INFORMATION ABOUT SOLENOID VALVES

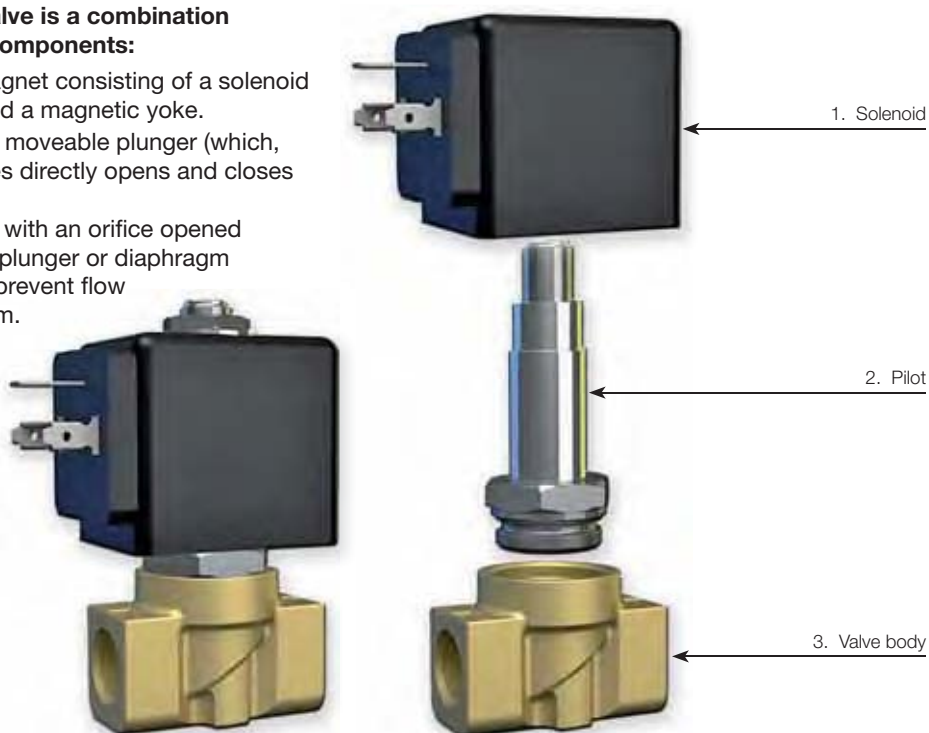
TECHNICAL INFORMATION ABOUT SOLENOID VALVES

General Information

Solenoid valves are electro-mechanical devices used for interrupting or diverting the flow of fluids by opening or closing one or more orifices.

The solenoid valve is a combination of three basic components:

1. An electromagnet consisting of a solenoid (windings) and a magnetic yoke.
2. A pilot with a moveable plunger (which, in some cases directly opens and closes the valve).
3. A valve body with an orifice opened or closed by plunger or diaphragm to enable or prevent flow of the medium.



Operating principles

The term solenoid refers to operator and coil, also known as pilot or magnetic actuator.

The coil consists of copper wire wound on a support reel. When electric current is applied into the coil, magnetic flow lines are generated which are stronger in the coil center.

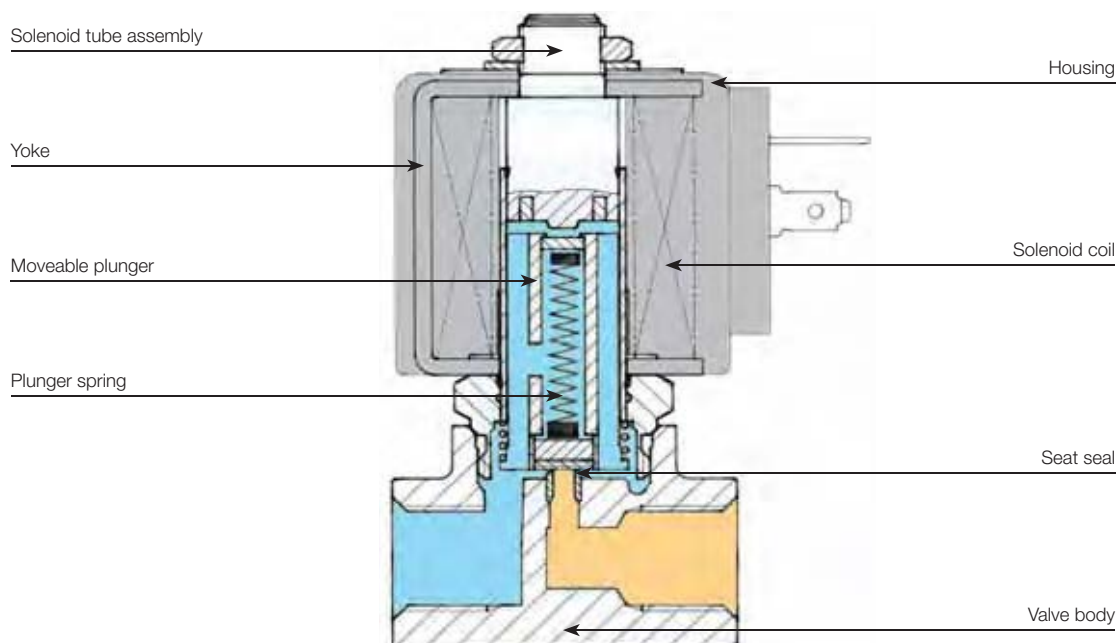
This magnetic flow raises the moveable plunger in the coil until it brings it into contact with the pole piece. The valve body has an orifice through which the fluid flows when the valve is open.

The moveable plunger has an integral seat which when the solenoid coil is energised, moves off the valve (direct operated) orifice or diaphragm (pilot operated) orifice opening the valve.

When the coil is de-energised, a return spring brings the plunger back to the original closing position, thus cutting off the flow of the fluid.

BASIC COMPONENTS OF A SOLENOID VALVE

Valve body:	Main part of the solenoid valve including ports, seat and orifices.
Solenoid tube assembly:	Cylinder, in stainless steel, hermetically sealed and closed at one extremity. It is the guide channel of the moveable plunger which is moved magnetically. The solenoid coil is fitted on the external side of the enclosing tube.
Moveable plunger:	Made by ferritic stainless steel, it is attracted by the solenoid magnetic field and slides inside the tube.
Plunger spring (or return spring):	Used to hold the moveable plunger in position and to return it when de-energized.
Seat seal:	Part of the moveable plunger, it is used to close a valves main orifice or pilot orifice.
Electromagnet (or solenoid coil):	Electrical part consisting of a copper windings (solenoid) along, with a magnetic yoke (armature), when electric current flows through, it generates a magnetic field attracting the moveable plunger.
Housing:	Part that contains and protects the coil.
Yoke:	Metalic case surrounding the coil and concentrating electro-magnetic force on the moveable plunger.



TECHNICAL VOCABULARY USED IN TABLES

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
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NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																

The basic technical features of each solenoid valve are indicated in the tables, the terminology used is shown and explained below. Please notice that in certain sections you will have the choice between two product ranges: Parker valves, within blue tables and the Parker Lucifer valves, within orange tables.

Actuation:	The mechanical method used to control the flow.
Body:	Main part of the solenoid valve with the ports, seats and orifice needed.
Function:	The way the valve operates when de-energised.
Port Size:	Fitting dimensions are defined as threaded in inches (G), in BSP or Sub-base, when a flat interface for ports is adopted.
Orifice (mm):	Main orifice diameter in millimetres (nominal diameter).
Flow Factors:	Define the quantity of water which flows through the solenoid valve with a pressure drop of 1 bar during one minute. Expressed in l/min and m³/h.
Max Fluid Temperature:	Maximum fluid temperature the valve can withstand.
Max Ambient Temperature:	Maximum ambient temperature the valve can withstand.
Minimum Operating Pressure Differential:	The lowest differential pressure required for operation (bar).
Maximum Operating Pressure Differential (MOPD):	The highest working differential pressure with 90% of the rated voltage (-10% Vn) applied to the solenoid coil (for AC) and 95% of the rated voltage (-5% Vn)(for DC).

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)		Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	AC bar	DC bar	°C	°C								

Fluid Temperature:

Minimum and Maximum admissible temperature for the media used (°C).

Seat seal:

Material used for the seat discs.

Valve order number:

Applicable for Parker Valves shown in **blue** tables. The valve order number refers to the valves only. (please refer to the "How To Order" section for more details).

Valve ref.:

Applicable for Parker Lucifer Valves shown in **orange** tables. The valve ref. refers to the valve. (please refer to the "How To Order" section for more details).

Valve type:

Refers to the Parker valve type

Housing ref.:

Only for Parker Lucifer valves shown in **orange** tables, you can choose the housing to protect the coil.

Coil Ref.:

Compatible coil reference.

Coil type:

Compatible coil advised.

Power:

Power consumption of a specific electrical part on selected pressure vessel, rated by AC and DC (W). Power consumption must be considered in cold conditions for the coil, at T_{Amb}: +20°C. For 483510, 481865 and 496081 series, power consumption indicated in the tables must be considered in warm conditions.

Coil group:

Please refer to the specific section for the coil compatibility groups.

Dwg. No.:

Drawing number.

TECHNICAL INFORMATION

Solenoid valves are highly engineered products that can be used in many diverse applications.

In addition to operational functionality, media compatibility and suitability for the operating environment when selecting the best product for a given application.

This section provides a brief overview of the components, actuation and function modes of solenoid valves available from Parker Hannifin - FCDE.

Different Technologies:

Solenoid valves are electrically operated devices used to control flow. The most common types of solenoid valve are:



**Direct Operated
Valves**



Magnalift Valves



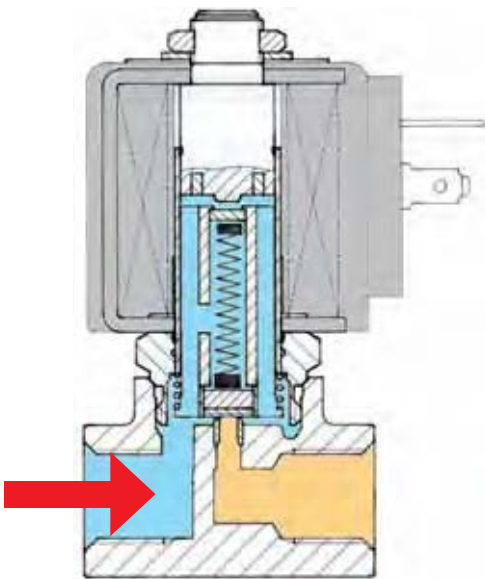
**Pilot Operated
Valves**

DIRECT OPERATED VALVE

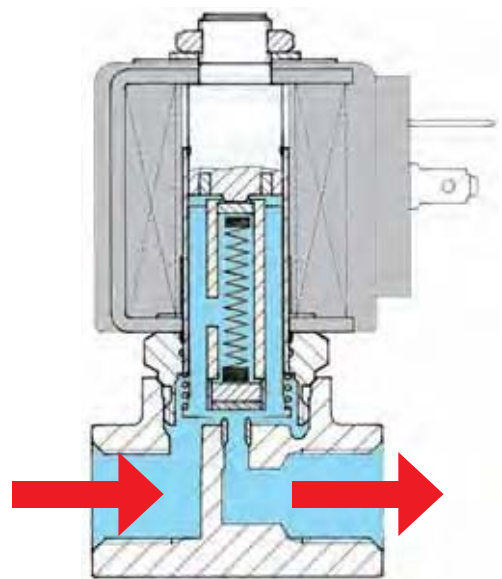
Magnetic force is used directly to open or close the plunger which controls the passage of the fluid. Performances are limited by the coil, the pressure, and the valve orifice size. For direct operated valves, the minimum working pressure is 0 bar and the maximum pressure relies on the combination (valve/coil) chosen.

Direct Operated Valve

De-energised

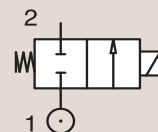


Energised



Example:

- 121 Series
- 146 Series
- N74 Series

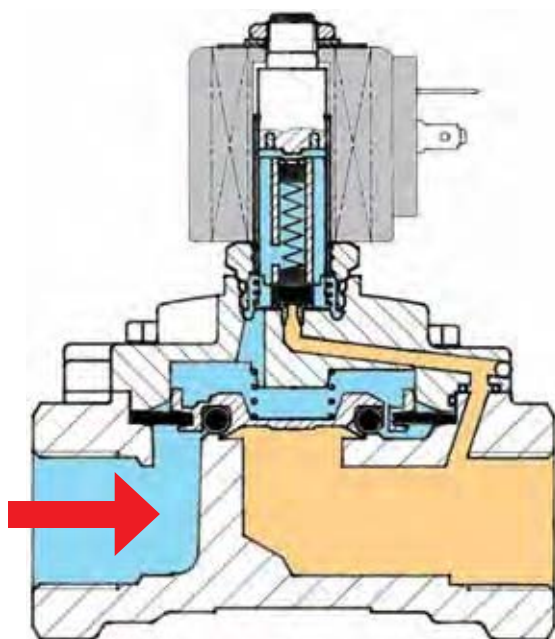


PILOT OPERATED VALVE

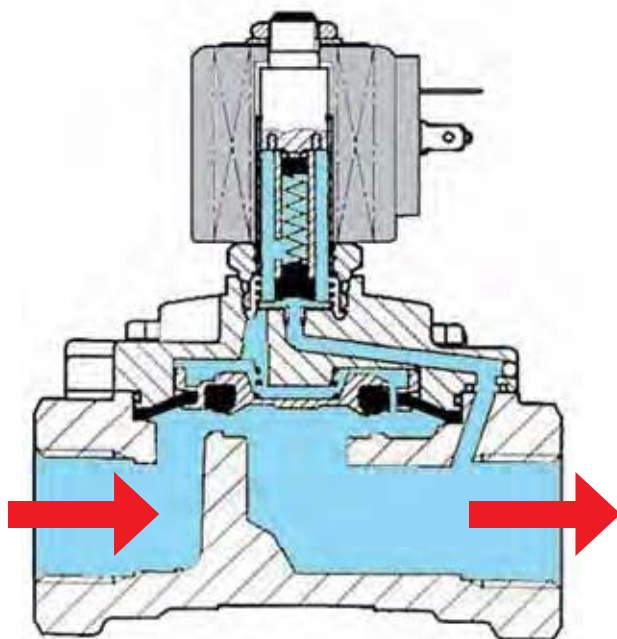
To control a higher flow, it is necessary to use pilot operated valves. The supply pressure enters the direct operated "pilot stage" which directs the flow to a "pilot chamber" which, in turn, applies the pilot pressure over a large area (generally a diaphragm or piston). Therefore, a large force is generated to move the main sealing elements against higher pressure or over a large orifice. One condition of operation is to have a minimum pressure available to shift the valve (indicated in the catalogue). In most applications, this presents no particular problems (refer to magnalift valve section). The pressure rating of the valve starts between 0.1 to 0.5 bar (depending on the valve). (NB. Pilot Operated Valves are also called Servo Operated Valves).

Pilot Operated Valve

De-energised

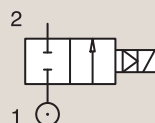


Energised



Example:

- 321 Series
- 7321B Series
- 168.1 Series



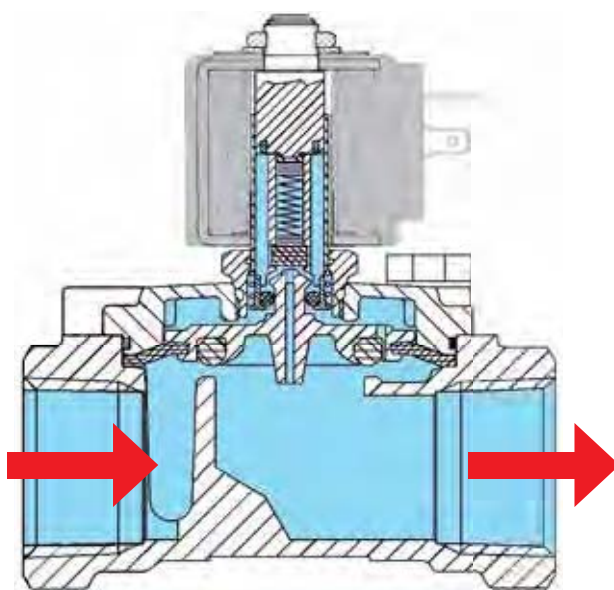
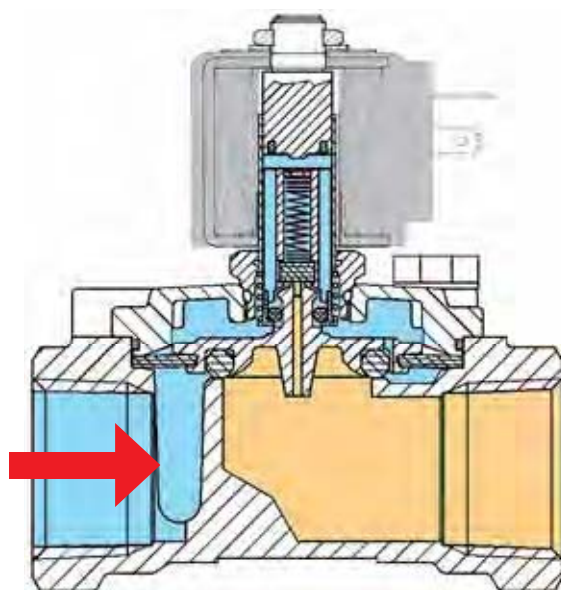
MAGNALIFT VALVE

The magnalift valves combine the features of the direct operated and pilot operated valves. A mechanical link between the plunger and diaphragm retainer allows the valve to operate as a direct operated valve at low pressures and as a pilot operated valve at higher pressures. Magnalift valves are specially designed for applications where 0 pressure is needed to operate the valve, as well as bigger flow than a direct operated valve.

Magnalift Operated Valve

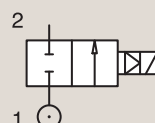
De-energised

Energised



Example:

- 221 Series
- 123 Series

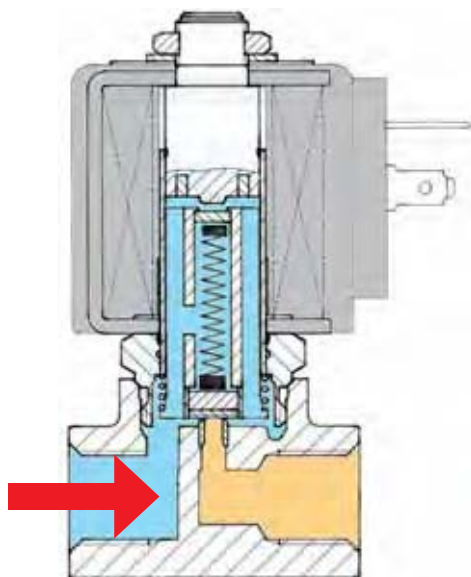


NORMALLY CLOSED VALVE

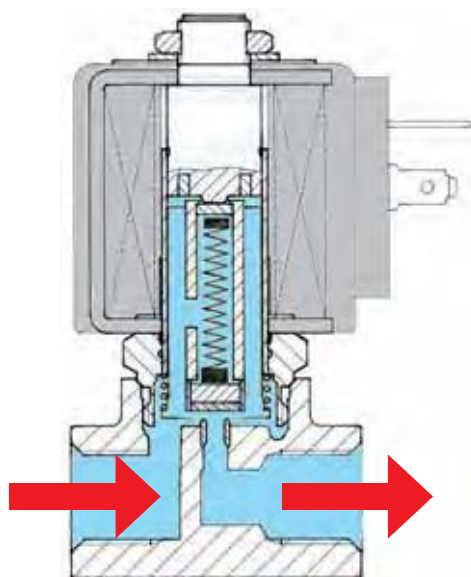
Most of our valves are available in normally closed and normally open configuration when not energized. In certain applications, you may require a normally open valve (open function in case of current failure). The differentiating factor of design of this technology, is based upon the design of the seat seal, which is reversed in comparison to a normally closed valve.

Normally Closed Valve

De-energised

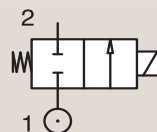


Energised



Example:

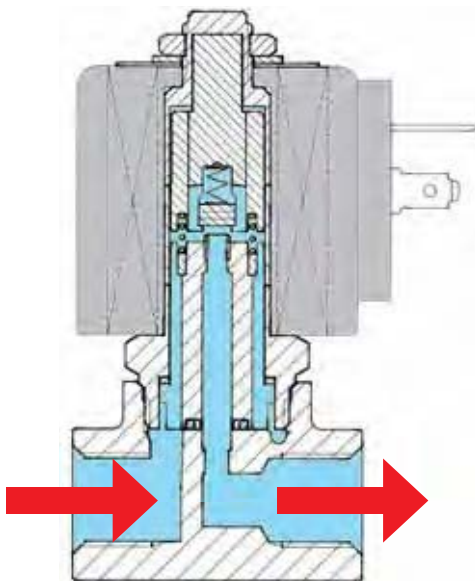
- 121 Series
- 146 Series
- N74 Series



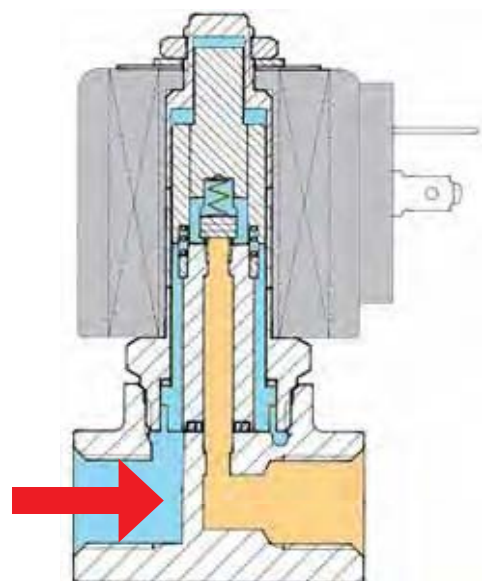
NORMALLY OPEN VALVE

Normally Open Valve

De-energised

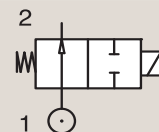


Energised



Example:

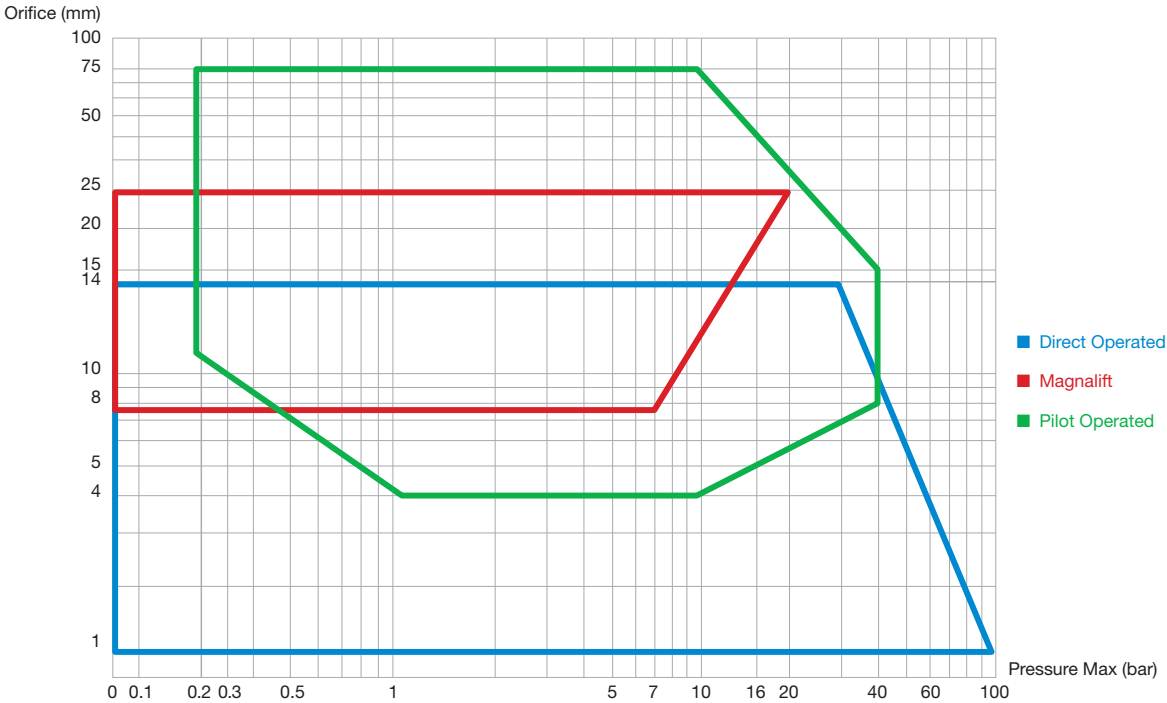
- 122 Series
- 136 Series
- 7322B Series



FLOW AND PRESSURE RANGES

Area of operation:

Each valve principle, as described in the previous pages, has a defined area of operation related to its pressure and flow capabilities. The following graph shows which type of valve is suitable for a certain situation.



Areas of operation of Parker solenoid valves.

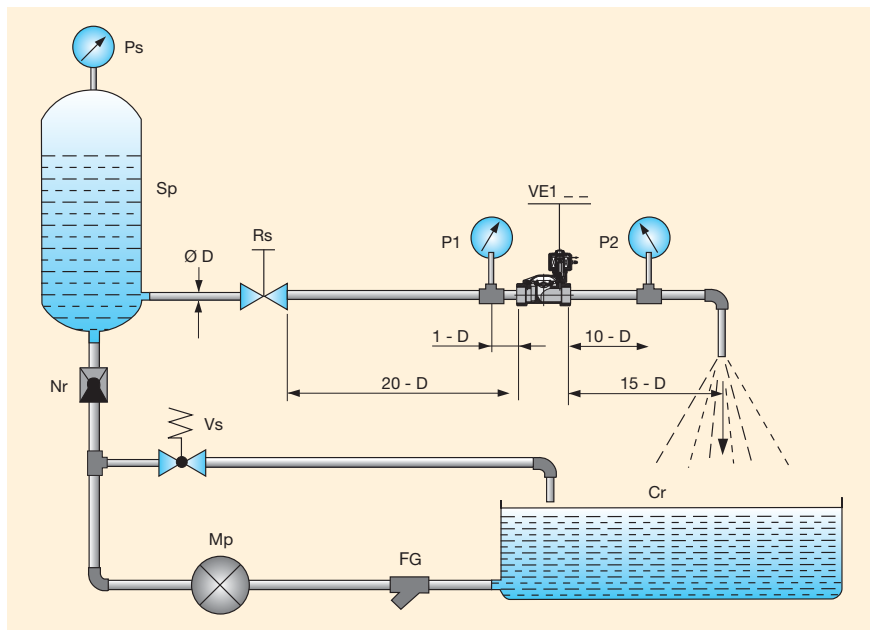
SIZING SOLENOID VALVES

The correct choice of solenoid valve is essential as it determines the regulation and performance required for practical application on a system. In order to decide on the exact type of solenoid valve, various parameters have to be known.

However the calculation method, based on the flow coefficient K_v , has proved highly practical as it can be determined on the basis of:

- Required flow rate
- Flow resistance
- Type of fluid and relative viscosity
- Specific gravity and temperature

This flow coefficient K_v is determined as defined in the VDI/VDE 2173 standards. It represents the flow of water in m^3/h or L/min with a temperature from 5 to 30°C which passes through the solenoid valve with a pressure drop of 1 bar.



Note:

The flow coefficient used in the USA is known as C_v and represents the water flow rate in US gallons per minute with a pressure drop ΔP of 1 psi.

To convert C_v in K_v and vice versa use:

$$1 K_v = 0.862 C_v$$

$$1 C_v = 1.16 K_v$$

FG = Grid Filter Mp = Pump Vs = Safety Valve Nr = Check Valve Sp = Pressure Tank Ps = Static Pressure Manometer

After existing conditions have been converted into this factor K_v , the type of valve is found by referring to the pages in the related sections in this catalogue.

Parameters used for selecting the solenoid valve are in the table next page.

Consult conversion tables of the various units of measurement as defined by the ISO (International Standards Organisation) - I.S. (International System) set out in this catalogue.

FLOW AND PRESSURE RANGES

Pressure

symbol (P)
unit of measurement [bar]
Working pressure

Pressure drop

symbol (ΔP)
unit of measurement [bar]
Pressure difference between inlet (P_1) and outlet (P_2) of the solenoid valve when a medium is flowing through the valve ($\Delta P = P_1 - P_2$).

Flow coefficient

symbol (Kv)
unit of measurement [l/min]

Specific gravity of the medium

symbol (γ)
unit of measurement [Kg/dm³]

Temperature of the medium

symbol (t)
unit of measurement [°C]

Flow rate

- for liquids
symbol (Q)
unit of measurement [l/min]
- for gases
symbol (Qn)
unit of measurement [Nm³/h]
- for steam
symbol (Qv)
unit of measurement [Kg/h]

Specific volume

symbol (Vs)
unit of measurement [m³/Kg]

a) Solenoid valves for liquids:

Flow rate: $Q = Kv \cdot \sqrt{\frac{\Delta P}{\gamma}}$ where: $Q = \text{l/min}$
 $\Delta P = \text{bar}$
 $\gamma = \text{Kg/dm}^3$

Flow coefficient:
 $Kv = Q \cdot \sqrt{\frac{\gamma}{\Delta P}}$

In the case of liquids with viscosity greater than 3°E (22 cStokes) the Kv is modified according to the formula:

$$Kv_1 = Kv + C \quad C = \frac{\delta \cdot \sqrt{Kv}}{200 \cdot Q} + 1$$

where C is the viscosity correction factor calculated by means of the formula:
where:

δ = kinematic viscosity of the fluid expressed in centistokes
Kv = flow rate factor of the solenoid valve
Q = flow rate in l/min

Pressure drop:

$$\Delta P = \gamma \cdot \left(\frac{Q}{Kv}\right)^2$$

b) Solenoid valves for gases:

If $\Delta P \leq 1/2 P_1$ use the following formulae:

Flow rate: $Q_n = 514 \cdot K_v \cdot \sqrt{\frac{\Delta P \cdot P_2}{\gamma_n \cdot (273 + t)}}$

where: $Q_n = \text{Nm}^3/\text{h}$ $P_1 = \text{bar}$ $P_2 = \text{bar}$

Flow coefficient: $K_v = \frac{Q_n}{514} \cdot \sqrt{\frac{(273+t) \cdot \gamma_n}{\Delta P \cdot P_2}}$

$t = ^\circ\text{C}$

$\gamma_n = \text{Kg}/\text{dm}^3$

Pressure drop: $\Delta P = \frac{(273 + t) \cdot \gamma_n}{P_2} \cdot \frac{Q_n^2}{(514 \cdot K_v)^2}$

If $\Delta P > 1/2 P_1$ use the following formula:

$Q_n = 757 \cdot K_v \cdot \sqrt{\frac{\Delta P \cdot P_2}{(273 + t) \cdot \gamma_n}}$

c) Solenoid valves for steam:

If $\Delta P \leq 1/2 P_1$ use the following formulae:

Flow rate: $Q_v = 31,7 \cdot K_v \cdot \sqrt{\frac{\Delta P}{V_s}}$

where: $Q_v = \text{Kg}/\text{h}$ $\Delta P = \text{bar}$ $V_s = \text{m}^3/\text{Kg}$

Flow coefficient: $K_v = \frac{Q_v}{31,7} \cdot \sqrt{\frac{V_s}{\Delta P}}$

Pressure drop: $\Delta P = V_s \cdot \frac{Q_v^2}{(31,7 \times K_v)^2}$

If $\Delta P > 1/2 P_1$ use the following formula:

$Q_v = 22,4 \cdot K_v \cdot \sqrt{\frac{P_1}{V_s}}$

Notes:

1) Should the value ΔP not be specified, use the following, which is based on experience:

- For liquids only in the case of free discharge $\Delta P = 90\%$ of the input pressure (P_1).
- For gases never use a ΔP of more than 50% of the absolute inlet pressure, since the excessive pressure drop may cause an irregular flow rate. In most cases, ΔP can be considered as 10% of the input pressure.

2) Specific volume value (V_s) for dry saturated steam, see the table in diagram 3.

FLOW RATE FOR LIQUIDS

The liquid flow through a pipe or a valve is given by:

$$Q = Kv \cdot \sqrt{\frac{\Delta P}{\gamma}}$$

- Where
- Q** = Flow [l/min]
 - ΔP** = Differential Pressure [bar]
 - γ** = Density of the fluid [kg/dm³]
(water γ = 1 [kg/dm³])
 - kv** = Flow Factor [l/min]

Flow factor kv:

The kv flow factor of a valve is defined as the flow rate of water in litres per minute with a pressure drop of 1 bar across the valve.

Valve manufactureres use different definitions for kv. It may be expressed in l/h or m³/h.

Care should therefore be taken when comparing values.

Maximum flow rate Qmax.

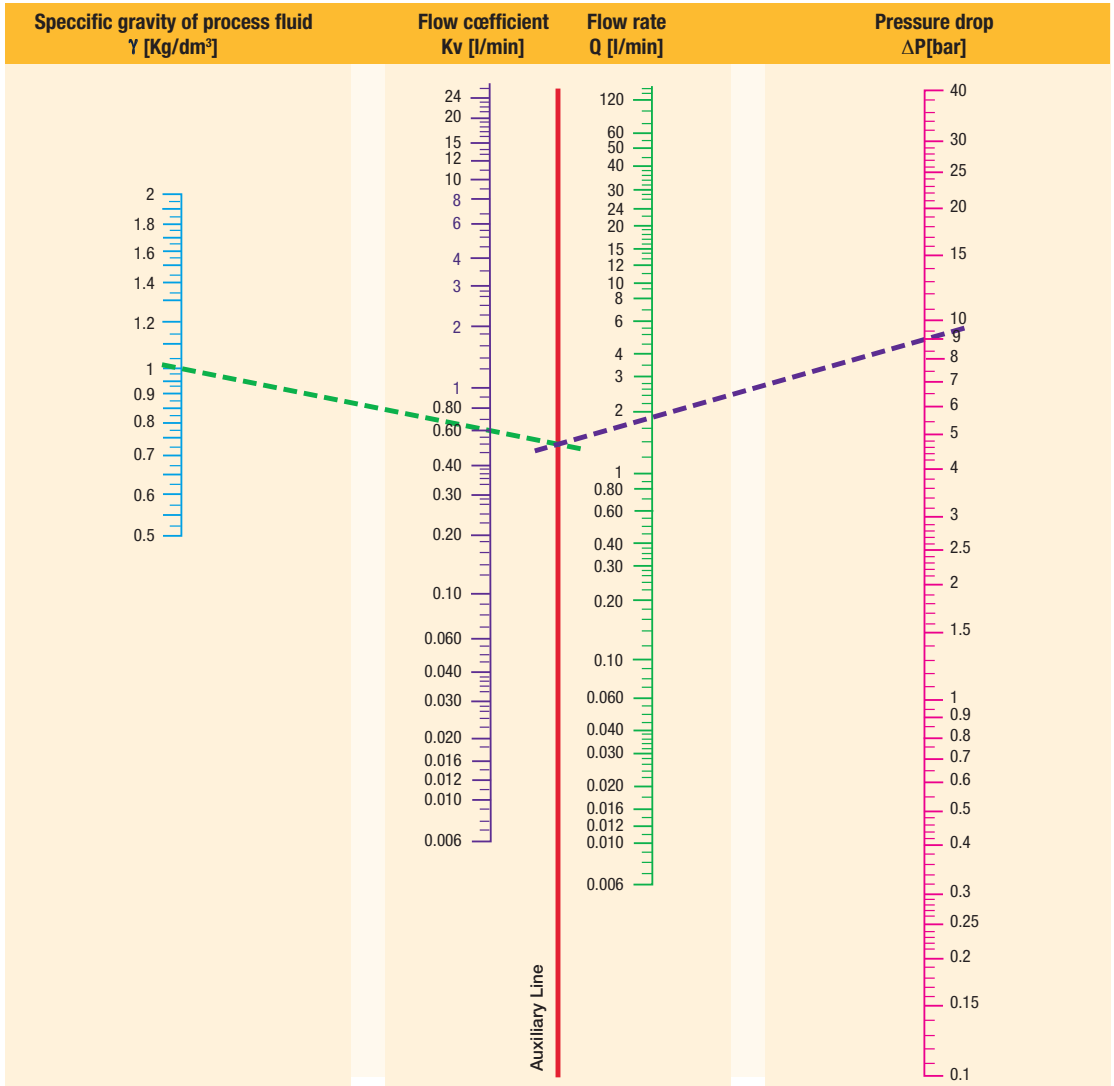
For particular 2-way valves the maximum flow must be limited for reasons of mechanical resistance and durability.

A very high flow velocity may dislocate a popet sealing or a diaphragm.

Maximum flow rates are indicated in the catalogue.

Flow factors		
Kv	KV	Qn
l/min	m³/h	l/min

NORMALLY CLOSED																	
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								



Monogram for liquid flow calculation

Specific gravity of the most common fluids ($\gamma = \text{Kg/dm}^3$) - ($t = 15^\circ\text{C}$ - $P = 760 \text{ mm Hg}$)					
Acetone	0.76	Benzenol	0.90	Naphtha	0.76
Water	1.00	Beer	1.02	Pentane	0.63
Sea water	1.02	Hexane	0.66	Vegetable oil	0.92
Ethyl alcohol	0.79	Ethane	0.68	Hydraulic oil	0.92
Methyl alcohol	0.81	Diesel oil	0.70	Wine	0.95
Petrol	0.68	Milk	1.03		

FLOW RATE FOR GASES

The gas flow through a valve is given by:

$$Q = C \cdot P_1 \cdot k_T \cdot \omega \cdot \gamma_{\text{air}} / \gamma_{\text{gas}}$$

Where

- Q** = Flow Rate [dm³/s]
- C** = Conductance [dm³/s.bar]
- P₁** = Inlet Pressure [bar abs]
- γ** = Specific Weight [Kg/dm³]
- k_T** = Temperature Correction Factor

$$\omega = \sqrt{1 - \frac{P_2/P_1 - b}{1 - b}} \quad k_T = \sqrt{\frac{293}{273 + \text{Temp. } ^\circ\text{C}}}$$

Nominal Flow Qn:

Calculations can be made with specific flow factors based on the CETOP RP 50P standard. For practical purposes and ease of valve selection the catalogue shows the nominal flow Qn. The nominal flow Qn is defined as the flow rate (L/min) of air across the valve when the inlet pressure P₁ = 6 bar and the pressure drop ΔP = 1 bar.

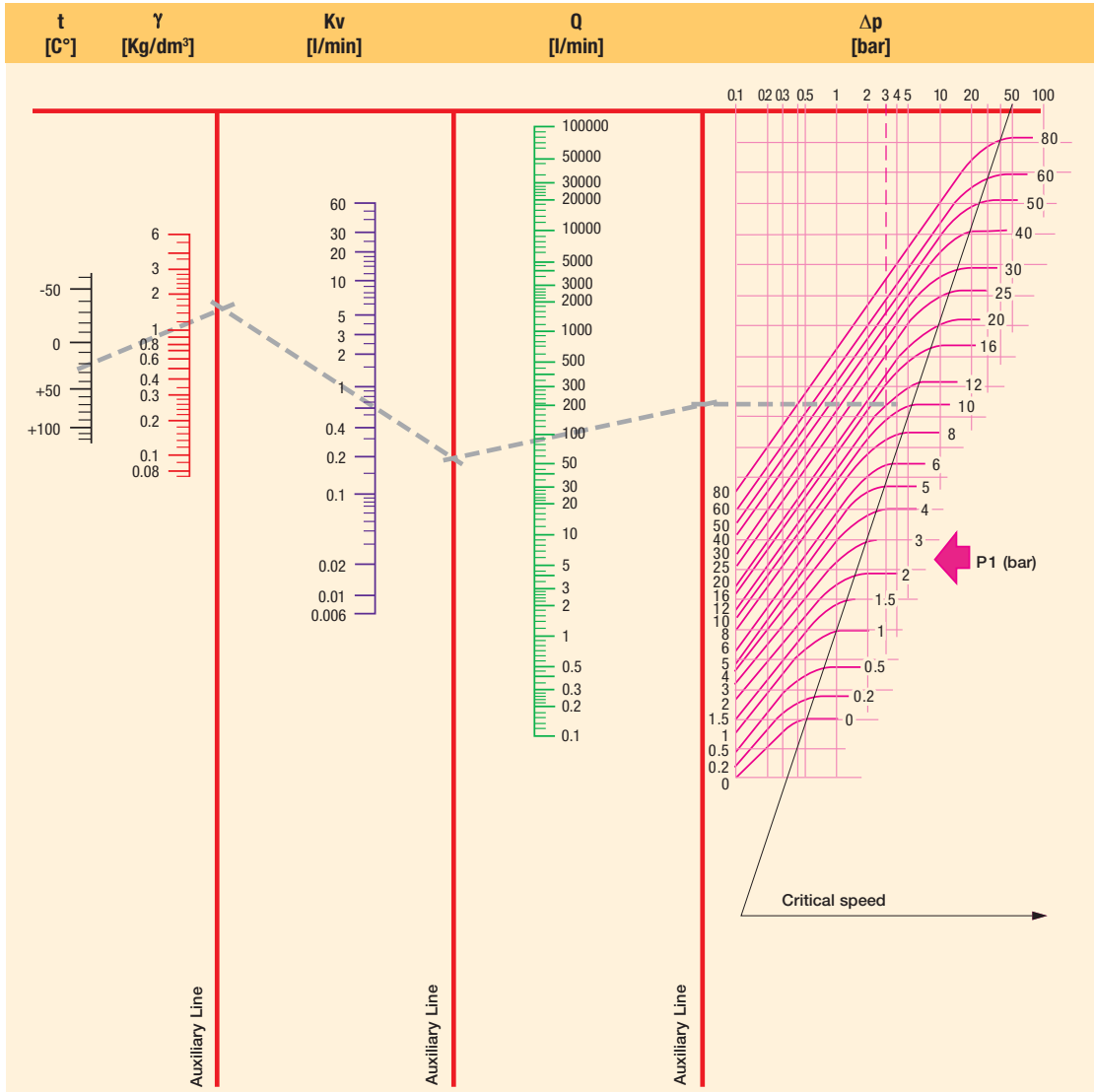
N.B.

The values of the flow factors and flow rates mentioned in catalogues are subject to +/-15% tolerances.

Pneumatic application: $\gamma_{\text{air}} / \gamma_{\text{gas}} = 1$

a) Choked flow conditions $P_2 \leq b \cdot P_1$
in this case $\omega = 1 \rightarrow Q = C \cdot P_1 \cdot k_T$

b) Free flow conditions $P_2 > b \cdot P_1$
in this case $\rightarrow Q = C \cdot P_1 \cdot k_T \cdot \omega$



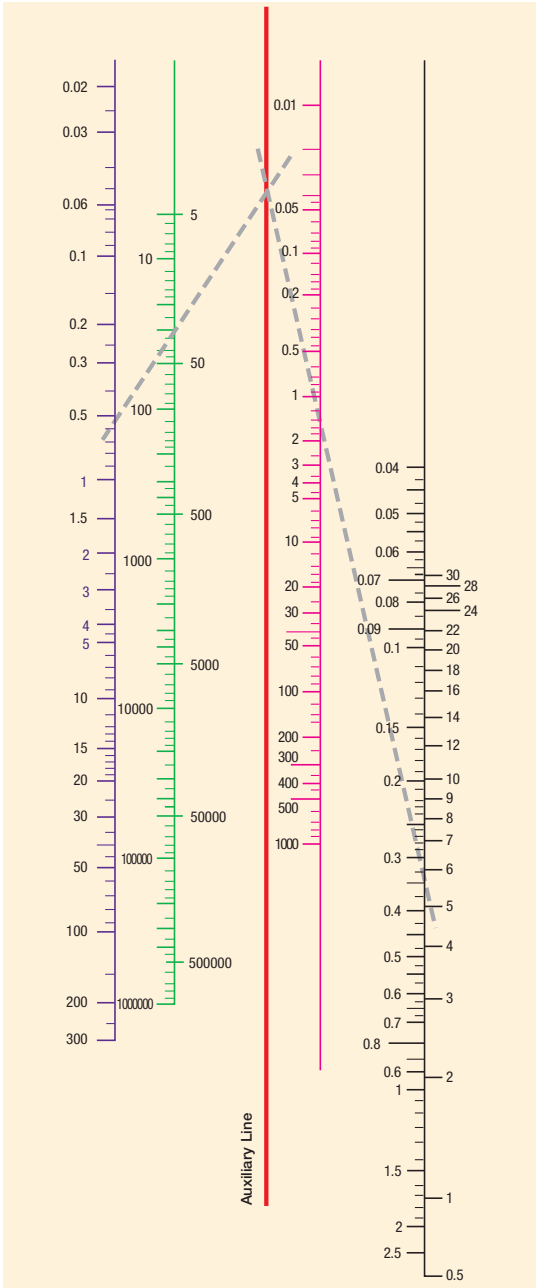
t = Fluid Temperature γN = Specific Gravity Kv = Flow Coefficient Qn = Flow Rate Δp = Pressure Drop P₁ = Inlet Pressure

Specific gravity of the most common gases (γ = Kg/m³) - (t = 0°C - P = 760mm Hg)

Acetylene	1.176	Helium	0.179	Natural gas	0.723
Carbon dioxide	1.965	Ethane	1.035	Methane	0.722
Air	1.293	Ethylene	1.259	Carbon monoxide	1.250
Argon	1.780	Hydrogen	0.089	Oxygen	1.429
Nitrogen	1.255			Propane	1.520
Butane	2.000			Steam	0.805

TECHNICAL INFORMATION

Diagram 3 for Dry Saturated Steam



Steam (Dry Saturated) Data

P ₂ bar	Temp. °C	Vs m ³ /Kg	P ₂ bar	Temp. °C	Vs m ³ /Kg
0.01	6.6	131.600	10.00	179.0	0.200
0.02	17.1	68.300	110.00	183.2	0.181
0.03	23.7	46.500	120.00	187.1	0.176
0.04	28.6	35.500	13.00	190.7	0.155
0.05	32.5	28.700	14.00	194.1	0.144
0.06	35.8	24.200	15.00	197.4	0.135
0.08	41.1	18.500	16.00	200.4	0.126
0.10	45.4	15.000	17.00	203.4	0.119
0.20	59.7	7.800	18.00	206.2	0.113
0.30	68.7	5.330	19.00	208.8	0.107
0.40	75.4	4.070	20.00	211.4	0.102
0.50	80.9	3.300	22.00	216.2	0.093
0.60	85.5	2.790	24.00	220.8	0.085
0.70	89.5	2.410	26.00	225.0	0.079
0.80	93.0	2.130	28.00	229.0	0.073
0.90	96.2	1.910	30.00	232.8	0.068
1.00	99.1	1.730	32.00	236.4	0.064
1.50	110.8	1.180	34.00	239.8	0.060
2.00	119.6	0.900	36.00	243.1	0.057
2.50	126.8	0.730	38.00	246.2	0.053
3.00	132.9	0.620	40.00	249.2	0.051
3.50	138.2	0.530	45.00	256.2	0.045
4.00	142.9	0.470	50.00	262.7	0.040
4.50	147.2	0.420	55.00	268.7	0.036
5.00	151.1	0.380	60.00	274.3	0.033
5.50	154.7	0.350	65.00	279.6	0.030
6.00	158.1	0.320	70.00	284.5	0.028
6.50	161.2	0.300	80.00	293.6	0.024
7.00	164.2	0.280	90.00	301.9	0.021
7.50	167.0	0.260	100.00	309.5	0.018
8.00	169.6	0.250	150.00	340.5	0.011
8.50	172.1	0.230	200.00	364.2	0.006
9.00	174.5	0.220	225.00	374.0	0.003
9.50	176.8	0.210			

Kv = Flow Coefficient

Qv = Flow Rate

Ap = Pressure Drop

Vs = Specific Volume

P₂ = Outlet Pressure

VISCOSITY CONVERSION TABLE

Centistokes cStokes mm ² /S	°Engler °E	Saybolt Universal Second SSU	Rewood Second N°1 SRW N°1
1	1	-	-
12	2	65	55
22	3	100	90
30	4	140	120
28	5	175	155
45	6	210	185
60	8	275	245
75	10	345	305
90	12	415	370
115	15	525	465
150	20	685	610
200	26	910	810
300	39	1 385	1 215
400	53	1 820	1 620
500	66	2 275	2 025
750	97	3 365	2 995
1 500	197	6 820	6 075

OTHER USEFUL FORMULAS

Formulas:

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 5/9$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 9/5) + 32$$

$$\text{m}^3/\text{h} = \text{l/min} \times 0.06$$

$$\text{l/min} = \text{m}^3/\text{h} \times 16,67$$

$$\text{m}^3/\text{sec} = \text{m}^3/\text{h} \times 2,778 \times 10^{-4}$$

$$\text{m}^3/\text{sec} = \text{l/min} \times 1,667 \times 10^{-5}$$

Examples:

$$(167^{\circ}\text{F} - 32) \times 5/9 = 75^{\circ}\text{C}$$

$$(30^{\circ}\text{C} \times 9/5) + 32 = 86^{\circ}\text{F}$$

$$100 \text{ l/min} \times 0.06 = 6 \text{ m}^3/\text{h}$$

$$9 \text{ m}^3/\text{h} \times 16,67 = 150 \text{ l/min}$$

$$18.000 \text{ m}^3/\text{h} \times 2.778 \times 10^{-4} = 5 \text{ m}^3/\text{sec}$$

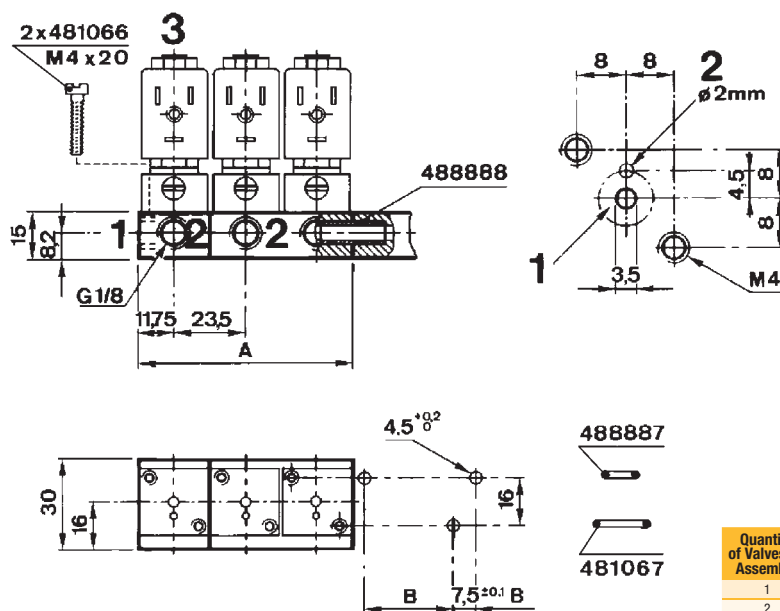
$$479.904 \text{ l/min} \times 1.667 \times 10^{-5} = 8 \text{ m}^3/\text{sec}$$

TABLE OF SUB-BASES FOR VALVES (Examples)

This table is showing examples of existing Sub-bases and possible Valves associations.
For more detail see sub-bases drawings in the following pages.

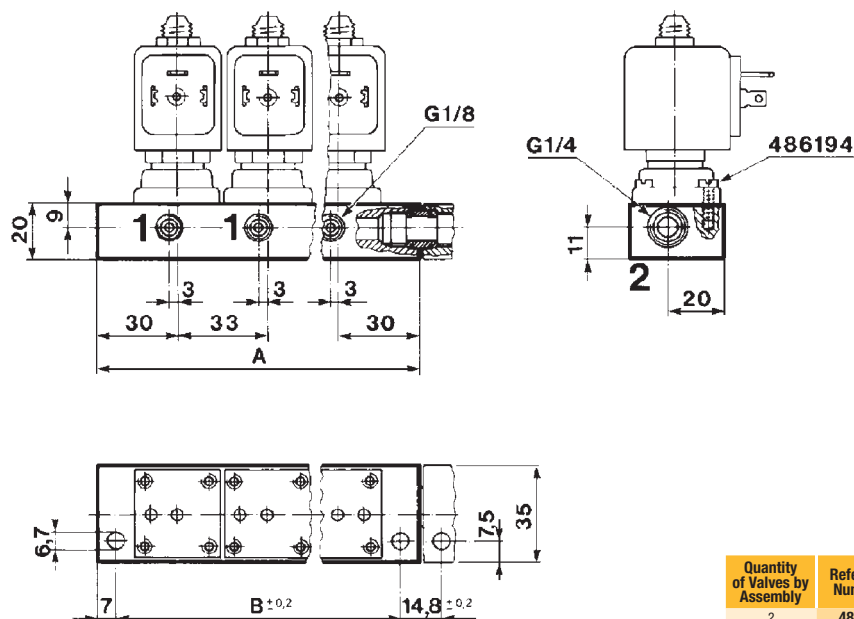
Sub-Base Reference	488860.01 /02/.03 /04/.05	486162 /63/64	485635 /36/37	481168 /04/.06 /08/.10	481964.04 /06/.08/.10	485291	485290	XGSPG1 /XGSPG2
Drawing	1	2	3	4	5	6	7	8
Valve Reference								
131F4480	●							
131F4480		●						
131F46		●						
131F4650		●						
131M74	●							
131M74	●							
131M7450	●							
131M7450	●							
131M75	●							
131M7550	●							
132F43		●						
132F44		●						
132F46		●						
133F46		●						
133F4650		●						
2019F1								●
3019F1								●
301XGR								●
341F34			●					
341F3403			●					
341L11					●			
341L2190							●	
341L9101				●				
345F34			●					
347L11					●			
E131F26								
E131F43		●						
E131F4350		●						
E131F44		●						
E131F4450		●						
E133F43		●						
E133F4350		●						
E133F44		●						
E133F4450		●						
E331L21						●		

TABLE OF SUB-BASES FOR VALVES (Examples)



Drawing 1

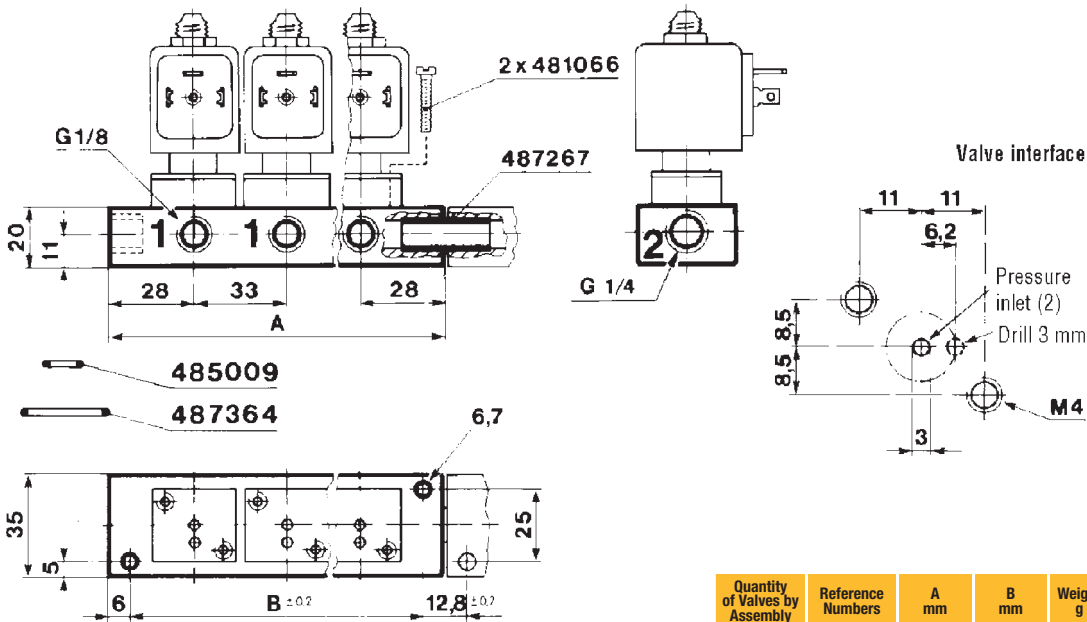
Quantity of Valves by Assembly	Reference Numbers	A mm	B mm	Weight g
1	488860-01	23.5	16.0 ± 0.1	25
2	488860-02	47.0	39.5 ± 0.1	45
3	488860-03	70.5	63.0 ± 0.1	70
4	488860-04	94.0	86.5 ± 0.1	120
5	488860-05	117.5	110.0 ± 0.1	120



Drawing 2

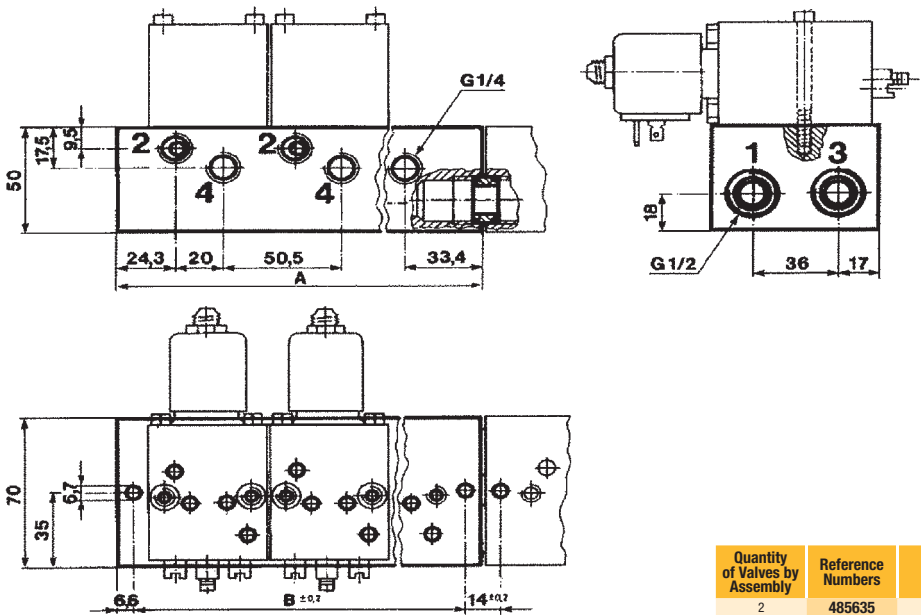
Quantity of Valves by Assembly	Reference Numbers	A mm	B mm	Weight g
2	486162	93	79	150
3	486163	126	112	210
5	486164	192	178	420

TABLE OF SUB-BASES FOR VALVES (Examples)



Drawing 3

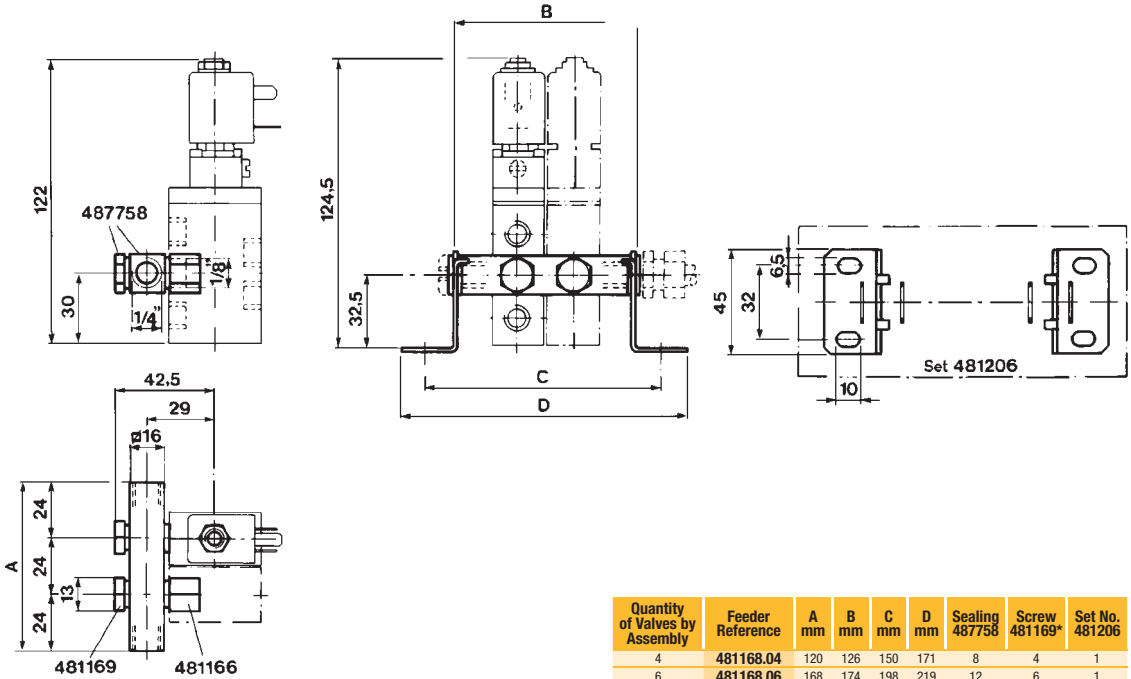
Quantity of Valves by Assembly	Reference Numbers	A mm	B mm	Weight g
1	487165	56	44	85
2	487167	89	77	135
3	487169	188	176	300



Drawing 4

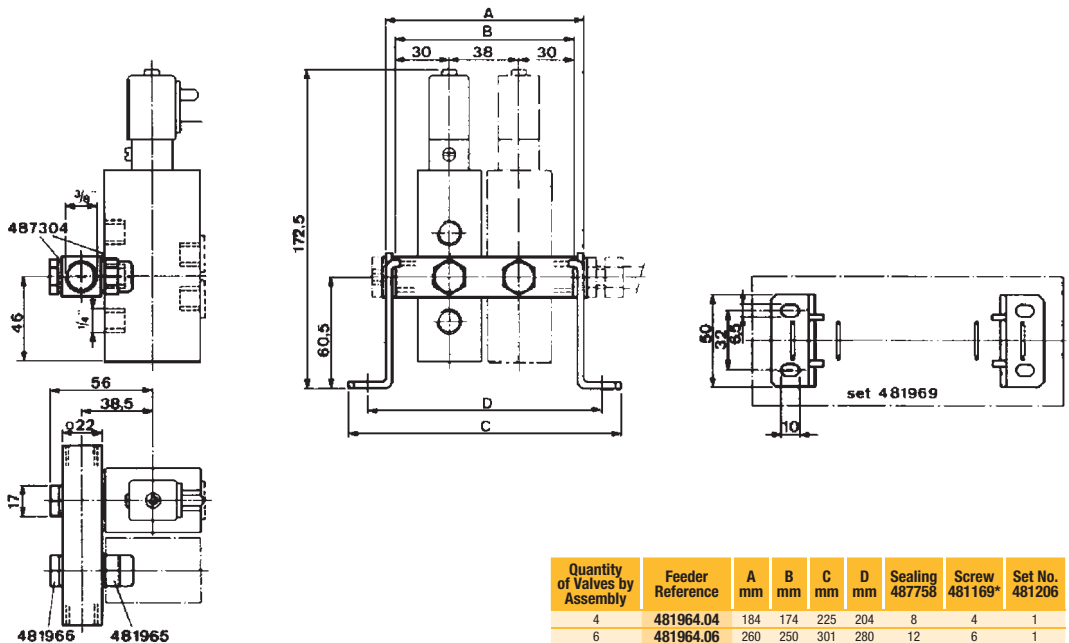
Quantity of Valves by Assembly	Reference Numbers	A mm	B mm	Weight g
2	485635	128.2	115.0	1000
3	485636	178.7	165.5	1400
5	485637	279.7	266.5	2250

TABLE OF SUB-BASES FOR VALVES (Examples)



Drawing 5

Quantity of Valves by Assembly	Feeder Reference	A mm	B mm	C mm	D mm	Sealing 487758	Screw 481169*	Set No. 481206
4	481168.04	120	126	150	171	8	4	1
6	481168.06	168	174	198	219	12	6	1
8	481168.08	216	222	246	267	16	8	1
10	481168.10	264	270	294	315	20	10	1

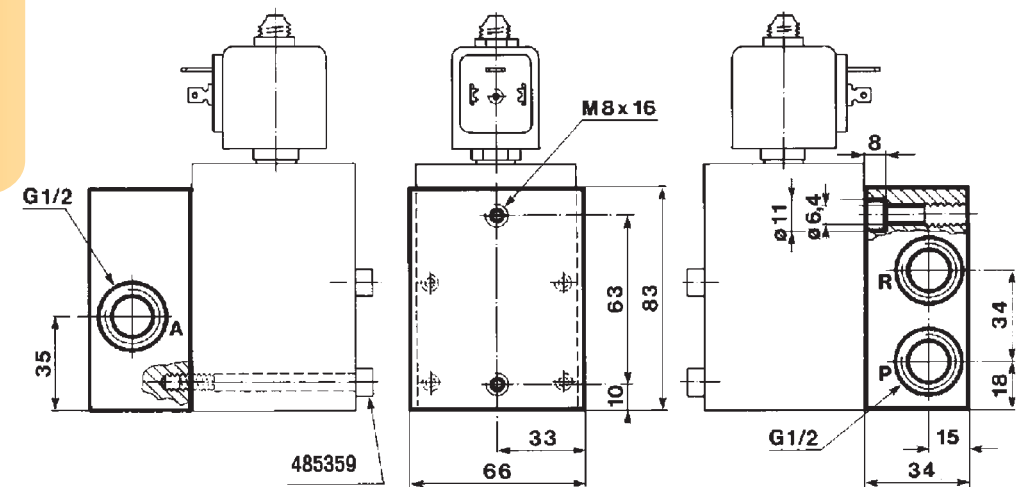


Drawing 6

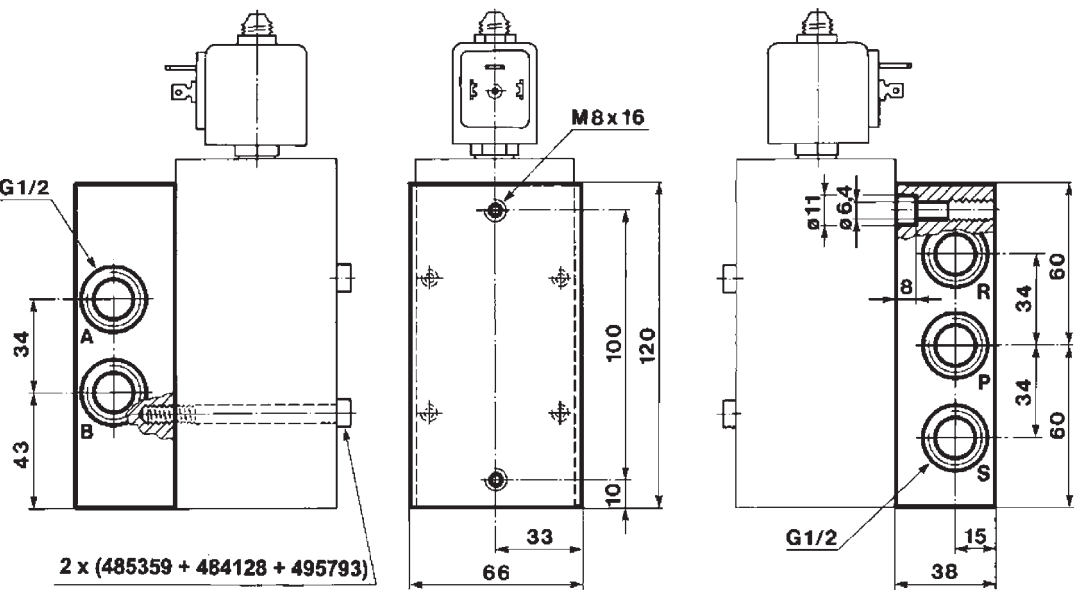
Quantity of Valves by Assembly	Feeder Reference	A mm	B mm	C mm	D mm	Sealing 487758	Screw 481169*	Set No. 481206
4	481964.04	184	174	225	204	8	4	1
6	481964.06	260	250	301	280	12	6	1
8	481964.08	336	326	377	356	16	8	1
10	481964.10	412	402	453	432	20	10	1

TABLE OF SUB-BASES FOR VALVES (Examples)

Sub-base 485291

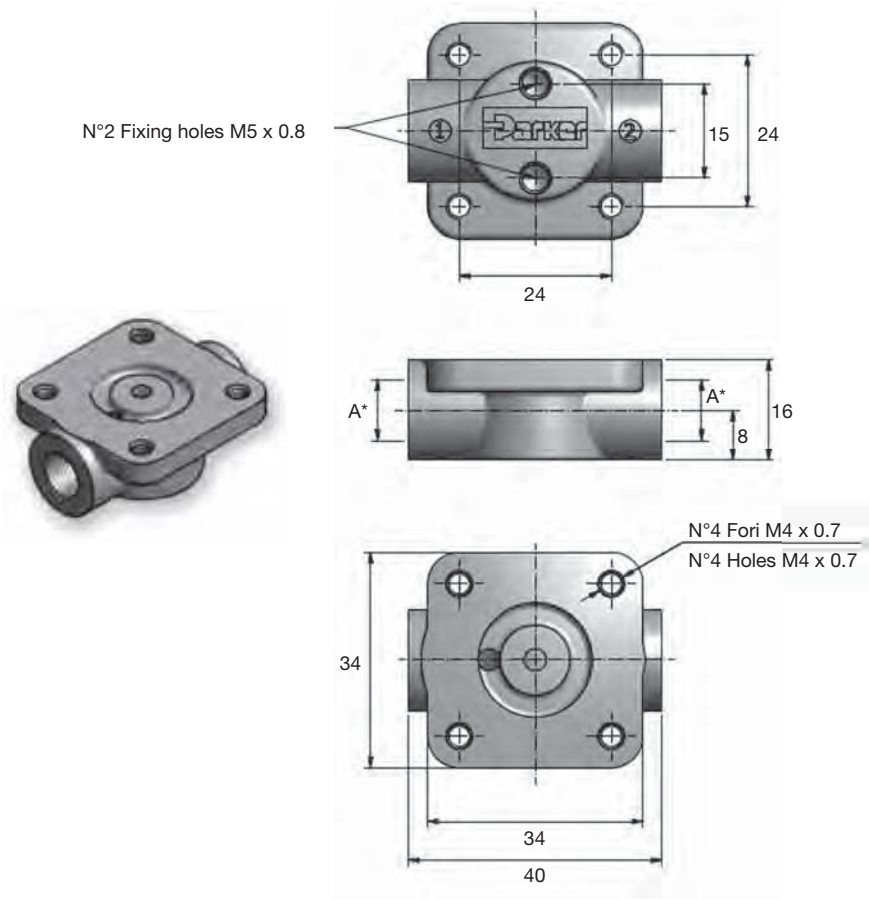


Drawing 7



Drawing 8

TABLE OF SUB-BASES FOR VALVES (Examples)



Drawing 9

Port	Kit Reference	To be used with	Box Quantity	Screws
1/8"G	XGSPG1	Any version	10	Included
1/4"G	XGSPG2	Any version	10	Included

TABLE OF VOLTAGE CODES FOR COILS AND ELECTRICAL PARTS

This table is showing the most commonly used voltage codes, for other voltages, please ask us.

VOLTAGE CODES			C1	C2	N7	L8	C4	C5		C7	E6	P1	A5	0A	S5	P2	1P	6J	0P	P3	K8
Coil	Group	Sub-Group	12 DC	24 DC	28 DC	30 DC	48 DC	110 DC	196 DC	220 DC	100/50	100/50-60	110/50	110-115/50	110-115/50 120/60	110/50-60	110-115/50-60	110-115/60	100/50-115/60	110/50-120/60	115/60
481045	1.1	-	●	●			●	●						●				●			
481180	1.1	-	●	●				●						●							
481530	1.1	-	●	●																	
482605	1.1	-	●	●																	
482606	1.1	-	●	●			●	●						●				●			
483590	1.1	-													●						
488143	1.1	-										●									
488980	1.1	-	●	●			●	●						●				●			
492912	1.1	-		●																	
492919	1.1	-		●																	
495865	1.1	-		●			●							●				●			
496131	1.2	-	●	●			●	●								●					●
496482	1.2	-	●	●			●	●								●					●
496637	1.2	-	●	●			●	●								●					●
WB4.5	1.3	-									●	●								●	
WB5.0	1.3	-	●	●				●													
WB8.0	1.3	-																		●	
481000	2.0	2.1	●	●			●	●		●				●				●			
481865	2.0	2.1	●	●			●	●					●								●
482635	2.0	2.1														●					
482725	2.0	2.1	●	●				●					●								●
483371	2.0	2.1	●	●			●	●		●				●				●			
483510	2.0	2.1													●						
483520	2.0	2.1																			
485100	2.0	2.1		●						●				●							
488553	2.0	2.1										●									
488947	2.0	2.1										●									
491514	2.0	2.1	●	●		●														●	
492070	2.0	2.1	●	●			●	●								●					
492190	2.0	2.1	●	●			●	●		●						●					
492453	2.0	2.1	●	●			●	●					●								
492670	2.0	2.1	●	●			●	●					●								
492726	2.0	2.1		●																	
493640	2.0	2.1		●			●						●							●	
494040	2.0	2.1		●						●				●							
495870	2.0	2.1		●			●	●					●								
495905	2.0	2.1		●			●	●													●
496081	2.0	2.1	●	●											●						
496082	2.0	2.1	●	●																●	
496110	2.0	2.1													●						
HZ10	2.0	2.1																		●	
481044	2.0	2.2											●						●		
483816	2.0	2.2	●	●																	
486265	2.0	2.2	●	●			●						●						●		
492425	2.0	2.2	●	●									●								
492727	2.0	2.2	●	●																	
495880	2.0	2.2		●									●								
496155	2.0	2.2		●			●						●								
HZ11	2.0	2.2	●	●			●													●	
482730	3.0	-		●			●						●								●
482735	3.0	-		●			●														
495875	3.0	2.1		●																	

TABLE OF VOLTAGE CODES FOR COILS AND ELECTRICAL PARTS

This table is showing the most commonly used voltage codes, for other voltages, please ask us.

VOLTAGE CODES			C1	C2	N7	L8	C4	C5		C7	E6	P1	A5	0A	S5	P2	1P	6J	0P	P3	K8
Coil	Group	Sub-Group	12 DC	24 DC	28 DC	30 DC	48 DC	110 DC	196 DC	220 DC	100/50	100/50-60	110/50	110-115/50	110-115/50 120/60	110/50-60	110-115/50-60	110-115/60	100/50-115/60	110/50-120/60	115/60
484990	4.0	-																			
485400	4.0	-	•	•			•	•									•				
495915	4.0	-		•			•											•			
482740	6.0	-		•			•	•													
482745	6.0	-		•			•														
495900	6.0	-	•	•			•	•													•
496125	6.0	-		•			•	•													
483580.01	7.0	-			•																
488650.01	7.0	-			•																
488660.01	7.0	-			•																
488670.01	7.0	-			•																
490885	7.0	-				•															
490890	7.0	-			•	•															
495910	8.0	-			•																
492210	9.0	-		•																	
492965.01	9.0	-			•																
496565	9.0	-			•																
492300	10.1	-	•	•			•	•		•							•				
492310	10.1	-	•	•			•	•		•							•				
496560	10.1	-		•			•	•									•				
496800	10.1	-		•			•	•									•				
496800.02	10.1	-		•			•	•									•				
496895	10.1	-		•			•	•									•				
496555	10.2	-		•			•	•									•				
496700	10.2	-		•			•	•									•				
496700.02	10.2	-		•			•	•									•				
497105	10.3	-	•	•			•	•										•			
483270	11.0	-	•	•			•	•									•				
483270.02	11.0	-	•	•			•	•									•				
492335	12.0	-				•															
482870.01	12.0	-			•																
495294	13.0	-	•	•																	
496193	13.0	-	•	•																	
483824	14.1	-																			
483764	14.2	-																			
483541	14.3	-																			
YB09	20.1	-																•		•	
YB12	20.1	-	•	•																	
ZB09	20.1	-	•	•				•				•					•			•	
ZB12	20.1	-	•	•			•	•													
ZB14	20.2	-										•								•	
ZB16	20.2	-	•	•				•													
ZH14	20.2	-																		•	
ZH16	20.2	-	•	•																	
JB14	21.0	-																			
JB16	21.0	-	•	•					•												
KH09	22.0	-																			
KP10	22.0	-	•	•																	
KT09	22.0	-													•						
XT09	23.0	-																			
D4	24.0	-		•																•	
D5	24.0	-		•																	•
LA	24.0	-		•									•							•	
LB-LC	24.0	-		•																•	
XS03	24.0	-																		•	

INDEX BY COIL REFERENCE

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
481000	2.0/2.1	Coil with screw terminal, 40 mm	8.0	8.0	-40°C to +50°C	-	IP 44 to 67	-	474
481044	2.0/2.2	Coil with screw terminal High power, 40 mm	-	14.0	-40°C to +50°C	-	IP 44 to 67	-	475
481180	1.1	Coil for DIN plug connection, 22 mm	5.0	4.0	-40°C to +50°C	-	IP65	-	453
481865	2.0/2.1	Coil for DIN plug connection, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	446
482605	1.1	Explosion proof encapsulated electrical part "mb", 32 mm	5.0	4.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
482606	1.1	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
482730	3.0	Coil for DIN plug connection, reduced power, 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	-	448
482740	6.0	Coil for DIN plug connection, low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	-	449
482870.01	12.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	512
483270	11.0	Flame proof electrical part "db", 50 mm	8.0	8.0	-40°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	492
483371	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	504
483510	2.0/2.1	Coil for DIN plug connection, 32 mm	-	9.0	-40°C to +50°C	-	IP65	-	446
483520	2.0/2.1	Coil with screw terminal, double frequency, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	474
483541	14.3	Coil with screw terminal, high temperature-high power, 40 mm	20.0	20.0	-40°C to +50°C	-	IP 44 to 67	-	478
483580.01	7.0	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	508
483590	1.1	Coil for DIN plug connection, double frequency, 22 mm	-	3.0	-40°C to +50°C	-	IP65	-	455
483764	14.2	Coil for DIN plug connection, UL recognized	-	9.0	-40°C to +50°C	-	IP65	-	451
483816	2.2	Coil for DIN plug connection for Jet Valves, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	452
483824	14.1	Coil with screw terminal, high temperature-high power, 40 mm	19.0	19.0	-40°C to +50°C	-	IP 44 to 67	-	477
484990	4.0	Coil with screw terminal, bistable, for impulse applications, 40 mm	-	11.0	-40°C to +50°C	-	IP44	-	480
485100	2.0/2.1	Coil with screw terminal, high temperature, 40 mm	8.0	8.0	-40°C to +50°C	-	IP 44 to 67	-	476
485400	4.0	Coil with screw terminal, bistable, for impulse applications, 40 mm	13.0	-	-40°C to +50°C	-	IP44	-	480
486265	2.0/2.2	Coil with screw terminal, high temperature-high power, 40 mm	14.0	14.0	-40°C to +50°C	-	IP 44 to 67	-	476
488143	1.1	Coil for DIN plug connection, double frequency, 22 mm	-	2.5	-40°C to +50°C	-	IP65	-	456
488553	2.0/2.1	Coil with screw terminal, double frequency, H class, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	479
488650.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	513
488660.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP67	II 1 G Ex ia IIC T6	514
488670.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP65	II 1 G Ex ia IIC T6	515
488980	1.1	Coil for DIN plug connection, low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	-	453
490885	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	513
490890	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	514
491514	2.0/2.1	Coil for DIN plug connection, 32 mm, UL class F	-	11.0	-40°C to +50°C	●	IP65	-	450
492070	2.0/2.1	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50mm	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	496
492190	2.0/2.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	507
492210	9.0	Explosion proof increased safety and encapsulated electrical part "eb", "Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	506
492310	10.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T4/T5	505
492335	12.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	512
492425	2.0/2.2	Coil for DIN plug connection, high temperature, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	447
492453	2.0/2.1	Coil for DIN plug connection, high temperature, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	447
492670	2.0/2.1	Explosion proof encapsulated electrical part "mb", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4	495
492912	1.1	Coil for DIN plug connection, 22 mm, UL	4.0	3.0	-40°C to +50°C	●	IP65	-	454
492965.01	9.0	Explosion proof intrinsically safe electrical part "ia", "Booster", 50 mm	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	511
493640	2.0/2.1	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	503
494040	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +90°C	-	IP67	II 2 G Ex eb IIC T3/T4	504
495294	13.0	Coil with ISO-DIN connector, 12-24VDC for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	481
495865	1.1	Explosion proof electrical part "nAc nCc", low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	484
495870	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486

INDEX BY COIL REFERENCE

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
495875	3.0	Explosion proof electrical part "nAc nCc", 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	488
495880	2.0/2.2	Explosion proof electrical part "nAc nCc", 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3	489
495900	6.0	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5/T6	499
495905	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	500
495910	8.0	Explosion proof intrinsically safe electrical part "ia", "booster", 37 mm	0.3 to 1.2	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	509
495915	4.0	Explosion proof increased safety electrical part "nAc nCc", 50 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	490
496081	2.0/2.1	Coil with flying leads, IP 67, 32 mm	9.0	9.0	-40°C to +50°C	-	IP67	-	472
496082	2.0/2.2	Coil with flying leads, IP 67, 32 mm, UL	16.0	13.0-14.0	-40°C to +120°C	●	IP67	-	473
496110	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	-	9.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486
496125	6.0	Explosion proof electrical part "nAc nCc", low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5/T6	487
496131	1.2	Coil for DIN plug connection, double frequency, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	457
496155	2.0/2.2	Explosion proof increased safety electrical part "nAc nCc", 50 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	491
496193	13.0	Coil with ISO-DIN connector, 12-24VDC, for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	481
496482	1.2	Coil for DIN plug connection, double frequency coil, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	458
496555	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	501
496560	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	501
496565	9.0	Explosion proof intrinsically safe electrical part "ia", "Booster", 37 mm	0.77 to 2.58	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	510
496637	1.2	Explosion proof electrical part "nAc nCc", double frequency, 22 mm	3.0	3.0	-20°C to +50°C	-	IP65	II 3 D Ex TC IIIC T 95°C	485
496700	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5 / T6	502
496800	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	502
496895	10.1	Coil for DIN plug connection for oil and gas, 37 mm	8.0	8.0	-40°C to +50°C	-	IP65	-	468
497105	10.3	Flame proof stainless steel electrical part "db"	8.0	8.0	-50°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	493
D4	24.0	Coil for DIN plug connection, 32 mm, UL	16.0	13.0	-40°C to +50°C	●	IP65	-	465
D5	24.0	Coil for DIN plug connection, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	466
HZ10	2.0/2.1	Explosion proof encapsulated electrical part "mb", double frequency	8.0	8.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	497
HZ11	2.0/2.2	Explosion proof encapsulated electrical part "mb", double frequency	14.0	14.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	498
JB14	21.0	Coil for DIN plug connection	16.0	-	-10°C to +50°C	-	IP65	-	462
JB16	21.0	Coil for DIN plug connection	-	14.0	-10°C to +50°C	-	IP65	-	462
KH09	22.0	Coil for DIN plug connection	-	9.0	-10°C to +80°C	-	IP65	-	463
KT09	22.0	Coil for DIN plug connection	-	9.0	-10°C to +50°C	-	IP65	-	463
KT10	22.0	Coil for DIN plug connection	10.0	-	-10°C to +50°C	-	IP65	-	463
LA	24.0	Coil with flying leads, IP67, 32 mm	9.0	9.0	-10°C to +50°C	-	IP67	-	470
LB-LC	24.0	Coil with flying leads, 32 mm, UL	16.0	13.0-14.0	-10°C to +50°C	●	IP67	-	471
WB4.5	1.3	Coil for DIN plug connection, 22 mm	-	4.5	-10°C to +50°C	-	IP65	-	459
WB4.5 UR	1.3	Coil for DIN plug connection, 22 mm	-	4.5	-10°C to +50°C	●	IP65	-	459
WB5.0	1.3	Coil for DIN plug connection, 22 mm	5.0	-	-10°C to +50°C	-	IP65	-	459
WB5.0 cURus	1.3	Coil for DIN plug connection, 22 mm	5.0	-	-10°C to +50°C	●	IP65	-	459
WB8.0	1.3	Coil for DIN plug connection, 22 mm	-	8.0	-10°C to +50°C	-	IP65	-	459
XS03	24.0	Coil for DIN plug connection, 32 mm	-	9.0	-40°C to +50°C	-	IP65	-	467
XT09	23.0	Coil for DIN plug connection	-	9.0	-10°C to +50°C	-	IP54	-	464
YB09	20.1	Coil with flying leads, IP67, UL for AC	-	9.0	-10°C to +50°C	●	IP67	-	469
YB12	20.1	Coil with flying leads, IP67	12.0	-	-10°C to +50°C	-	IP67	-	469
ZB09	20.0	Coil for DIN plug connection, UL for AC	-	9.0	-10°C to +50°C	●	IP65	-	460
ZB12	20.0	Coil for DIN plug connection	12.0	-	-10°C to +50°C	-	IP65	-	460
ZB14	20.2	Coil for DIN plug connection, high power - high temperature series	-	14.0	-10°C to +50°C	-	IP65	-	461
ZB16	20.2	Coil for DIN plug connection, high power - high temperature series	16.0	-	-10°C to +50°C	-	IP65	-	461
ZH14	20.2	Coil for DIN plug connection, high power - high temperature series	-	14.0	-10°C to +80°C	-	IP65	-	461
ZH16	20.2	Coil for DIN plug connection, high power - high temperature series	16.0	-	-10°C to +80°C	-	IP65	-	461

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1.1	488980	Coil for DIN plug connection, low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	-	453
1.1	492912	Coil for DIN plug connection, UL 22 mm	4.0	3.0	-40°C to +50°C	●	IP65	-	454
1.1	481180	Coil for DIN plug connection, 22 mm	5.0	4.0	-40°C to +50°C	-	IP65	-	453
1.1	488143	Coil for DIN plug connection, double frequency, 22 mm	-	2.5	-40°C to +50°C	-	IP65	-	456
1.1	483590	Coil for DIN plug connection, double frequency, 22 mm	-	3.0	-40°C to +50°C	-	IP65	-	455
1.1	495865	Explosion proof electrical part "nAc nCc", low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	484
1.1	482606	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
1.1	482605	Explosion proof encapsulated electrical part "mb", 32 mm	5.0	4.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	494
1.2	496131	Coil for DIN plug connection, double frequency, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	457
1.2	496482	Coil for DIN plug connection, double frequency coil, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	458
1.2	496637	Explosion proof electrical part "nAc nCc", 22 mm, double frequency	3.0	3.0	-20°C to +50°C	-	IP65	II 3 D Ex tc IIC T 95°C	485
1.3	WB5.0	Coil for DIN plug connection, 22 mm	5.0	-	-10°C to +50°C	-	IP65	-	459
1.3	WB5.0 cURus	Coil for DIN plug connection, 22 mm	5.0	-	-10°C to +50°C	●	IP65	-	459
1.3	WB4.5	Coil for DIN plug connection, 22 mm	-	4.5	-10°C to +50°C	-	IP65	-	459
1.3	WB4.5 UR	Coil for DIN plug connection, 22 mm	-	4.5	-10°C to +50°C	●	IP65	-	459
1.3	WB8.0	Coil for DIN plug connection, 22 mm	-	8.0	-10°C to +50°C	-	IP65	-	459
2.0/2.1	481000	Coil with screw terminal, 40 mm	8.0	8.0	-40°C to +50°C	-	IP 44 to 67	-	474
2.0/2.1	485100	Coil with screw terminal, high temperature, 40 mm	8.0	8.0	-40°C to +50°C	-	IP 44 to 67	-	476
2.0/2.1	481865	Coil for DIN plug connection, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	446
2.0/2.1	492453	Coil for DIN plug connection, high temperature, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	447
2.0/2.1	496081	Coil with flying leads, IP 67, 32 mm	9.0	9.0	-10°C to +50°C	-	IP67	-	472
2.0/2.1	483510	Coil for DIN plug connection, 32 mm	-	9.0	-40°C to +50°C	-	IP65	-	446
2.0/2.1	483520	Coil with screw terminal, double frequency, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	474
2.0/2.1	488553	Coil with screw terminal, double frequency, H class, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	479
2.0/2.1	491514	Coil for DIN plug connection, 32 mm, UL	-	11.0	-40°C to +50°C	●	IP65	-	450
2.0/2.1	495870	Explosion proof electrical part "nAc nCc", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486
2.0/2.1	496110	Explosion proof electrical part "nAc nCc", 32 mm	-	9.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	486
2.0/2.1	492670	Explosion proof encapsulated electrical part "mb", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4	495
2.0/2.1	492070	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50 mm	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	496
2.0/2.1	493640	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	503
2.0/2.1	495905	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	500
2.0/2.1	494040	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +90°C	-	IP67	II 2 G Ex eb IIC T3/T4	504
2.0/2.1	483371	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	504
2.0/2.1	492190	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	507
2.0/2.1	HZ10	Explosion proof encapsulated electrical part "mb", double frequency	8.0	8.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	497
2.0/2.2	486265	Coil with screw terminal, high temperature-high power, 40 mm	14.0	14.0	-40°C to +50°C	-	IP 44 to 67	-	476
2.0/2.2	492425	Coil for DIN plug connection, high temperature, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	447
2.0/2.2	481044	Coil with screw terminal High power, 40 mm	-	14.0	-40°C to +50°C	-	IP 44 to 67	-	475
2.0/2.2	495880	Explosion proof electrical part "nAc nCc", 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3	489
2.0/2.2	496082	Coil with flying leads, IP 67, 32 mm, UL	16.0	13.0-14.0	-40°C to +120°C	●	IP67	-	473
2.0/2.2	496155	Explosion proof increased safety electrical part "nAc nCc", 50 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	491
2.0/2.2	HZ11	Explosion proof encapsulated electrical part "mb", double frequency	14.0	14.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	498
2.2	483816	Coil for DIN plug connection for Jet Valves, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	452
3.0	482730	Coil for DIN plug connection, reduced power, 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	-	448
3.0	495875	Explosion proof electrical part "nAc nCc", 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	488
4.0	485400	Coil with screw terminal, bistable, for impulse applications, 40 mm	13.0	-	-40°C to +50°C	-	IP44	-	480
4.0	484990	Coil with screw terminal, bistable, for impulse applications, 40 mm	-	11.0	-40°C to +50°C	-	IP44	-	480
4.0	495915	Explosion proof increased safety electrical part "nAc nCc", 50 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	490

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6.0	482740	Coil for DIN plug connection, low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	-	449
6.0	496125	Explosion proof electrical part "nAc nCc", low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5/T6	487
6.0	495900	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5/T6	499
7.0	483580.01	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	508
7.0	488660.01	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP67	II 1 G Ex ia IIC T6	514
7.0	488650.01	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	513
7.0	488670.01	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP65	II 1 G Ex ia IIC T6	515
7.0	490885	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div. I, Gr. A, B, C, D	513
7.0	490890	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div. I, Gr. A, B, C, D	514
8.0	495910	Explosion proof intrinsically safe electrical part "ia", "booster", 37 mm	0.3 to 1.2.0	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	509
9.0	492210	Explosion proof increased safety and encapsulated electrical part "eb", "Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	506
9.0	496565	Explosion proof intrinsically safe electrical part "ia", "Booster", 37 mm	0.77 to 2.58	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	510
9.0	492965.01	Explosion proof intrinsically safe electrical part "ia", "Booster", 50 mm	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	511
10.1	496895	Coil for DIN plug connection for oil and gas, 37 mm	8.0	8.0	-40°C to +50°C	-	IP65	-	468
10.1	496560	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	501
10.1	496800	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	502
10.1	492310	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 GD Ex eb mb II T4/T5	505
10.2	496555	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	501
10.2	496700	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	502
10.3	497105	Flame proof electrical part "d"	8.0	8.0	-50°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	493
11.0	483270	Flame proof electrical part "db", 50 mm	8.0	8.0	-40°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	492
12.0	482870.01	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	512
12.0	492335	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div. I, Gr. A, B, C, D	512
13.0	495294	Coil with ISO-DIN connector, 12-24VDC for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	481
13.0	496193	Coil with ISO-DIN connector, 12-24VDC for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	481
14.1	483824	Coil with screw terminal, high temperature-high power, 40 mm	19.0	19.0	-40°C to +50°C	-	IP 44 to 67	-	477
14.2	483764	Coil for DIN plug connection, 32 mm, UL	-	9.0	-40°C to +50°C	●	IP65	-	451
14.3	483541	Coil with screw terminal, high temperature-high power, 40 mm	20.0	20.0	-40°C to +50°C	-	IP 44 to 67	-	478
20.0	ZB12	Coil for DIN plug connection	12.0	-	-10°C to +50°C	-	IP65	-	460
20.0	ZB09	Coil for DIN plug connection, UL for AC	-	9.0	-10°C to +50°C	●	IP65	-	460
20.1	YB12	Coil with flying leads, IP67	12.0	-	-10°C to +50°C	-	IP67	-	469
20.1	YB09	Coil with flying leads, IP67, UL for AC	-	9.0	-10°C to +50°C	●	IP67	-	469
20.2	ZB16	Coil for DIN plug connection, high power-high temperature series	16.0	-	-10°C to +50°C	-	IP65	-	461
20.2	ZH16	Coil for DIN plug connection, high power-high temperature series	16.0	-	-10°C to +80°C	-	IP65	-	461
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20.2	ZH14	Coil for DIN plug connection, high power-high temperature series	-	14.0	-10°C to +80°C	-	IP65	-	461
21.0	JB14	Coil for DIN plug connection	16.0	-	-10°C to +50°C	-	IP65	-	462
21.0	JB16	Coil for DIN plug connection	-	14.0	-10°C to +50°C	-	IP65	-	462
22.0	KT10	Coil for DIN plug connection	10.0	-	-10°C to +50°C	-	IP65	-	463
22.0	KH09	Coil for DIN plug connection	-	9.0	-10°C to +80°C	-	IP65	-	463
22.0	KT09	Coil for DIN plug connection	-	9.0	-10°C to +50°C	-	IP65	-	463
23.0	XT09	Coil for DIN plug connection	-	9.0	-10°C to +50°C	-	IP54	-	464
24.0	D5	Coil for DIN plug connection, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	466
24.0	LA	Coil with flying leads, IP67, 32 mm	9.0	9.0	-10°C to +50°C	-	IP67	-	470
24.0	D4	Coil for DIN plug connection, 32 mm, UL	16.0	13.0	-40°C to +50°C	●	IP65	-	465
24.0	LB-LC	Coil with flying leads, IP 67, 32 mm, UL	16.0	13.0-14.0	-10°C to +50°C	●	IP67	-	471
24.0	XS03	Coil for DIN plug connection, 32 mm	-	9.0	-40°C to +50°C	-	IP65	-	467

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Air conditioning
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Life sciences
Oil & gas
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Process
Refrigeration
Transportation

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Hose & fittings
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Agriculture
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Forestry
Industrial machinery
Machine tools
Marine
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Mining
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Renewable energy
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Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
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Rotary actuators
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Pneumatics

Key Markets

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Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

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Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
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Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors





Electromechanical

Key Markets

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Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

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Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
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Structural extrusions



Filtration

Key Markets

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Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

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Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
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Hydraulic & lubrication filters
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Sterile air filtration
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Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

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Tubing & plastic fittings



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Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
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Pulp & paper
Steel
Water/wastewater

Key Products

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Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

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Microelectronics
Military
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