

H Series ISO Valves

A complete range of pneumatic
ISO valves



Flexibility, fast response, and high performance

Parker's H Series ISO valve line offers a complete ISO valve package, from ISO 15407 18mm and 26mm valves, to the larger ISO 5599 size 1, 2, and 3 valves, all available in either plug-in -2 or individual connector -1 options.

- **ISO 15407-1 & 15407-2 Sizes 02 & 01 and ISO 5599-1 & 5599-2 Sizes 1, 2 & 3**
- **From vacuum up to 10 bar applications**
- **Internal or external pilot supply with same valves**

H Series ISO Valves - Heavy Duty Applications

Market Applications

- Automotive
- Machine tools
- Mobile



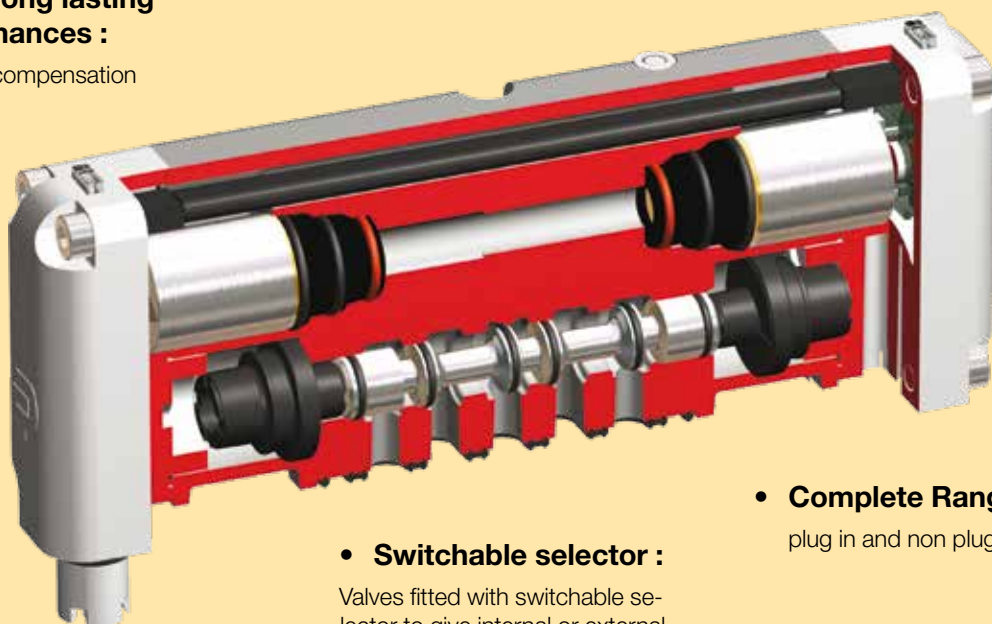
- **Excellent reliability :**

Long life in excess of 30 million operations.

- **Heavy Duty Metal Body**

- **Stable long lasting performances :**

due to wear compensation

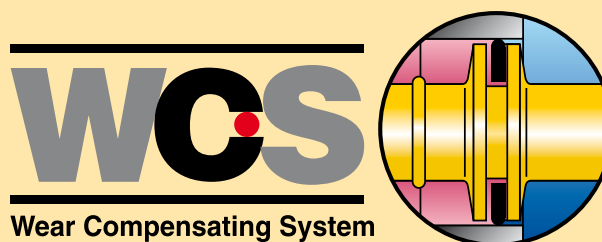


- **Complete Range :**
plug in and non plug in

- **Switchable selector :**

Valves fitted with switchable selector to give internal or external pilot supply

- **WCS Spool Technology**



Solenoid or air pilot actuation. Vacuum to 10 bar heavy duty applications.

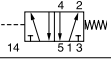
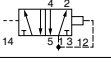
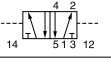
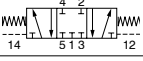
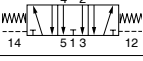
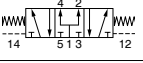
- Size HA and HB (26mm and 18mm)
- Heavy duty and corrosion resistant body
- Internal led & rectifier
- Internal or external pilot supply with same valve
- M12 common wiring



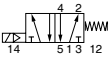
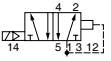
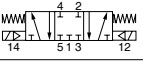
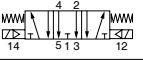
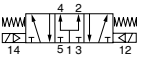
Operation information

Working pressure :	2,0 to 10 bar	
Working temperature :	-15 to +50°C	
Flow (Qmax.) :	Size 02	Size 01
	10,8 l/s	25,3 l/s
Flow (Qn) :	6,5 l/s	15,3 l/s

H Series ISO 15407-1 - Sizes 02 & 01 Pneumatic remote pilot operated

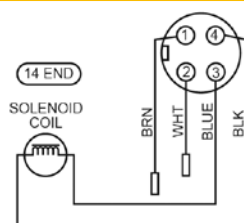
	Symbol	Description	Size	Weight (g)	Order code
 HB 18 mm		5/2 Air pilot - Spring return	02 - 18 mm	150	HBFWX000XXA
		5/2 Air pilot - Differential	02 - 18 mm	150	HB3WX000XXA
		5/2 Double air pilot	02 - 18 mm	165	HB4WX000XXA
		5/3 Closed Center (APB)	02 - 18 mm	165	HB8WX000XXA
 HA 26 mm		5/3 Vented Center	02 - 18 mm	165	HB9WX000XXA
		5/3 Pressurised Center	02 - 18 mm	165	HB0WX000XXA
			01 - 26 mm	250	HA3WX000XXA
			01 - 26 mm	265	HA4WX000XXA

H Series ISO 15407-1 - Sizes 02 & 01 With 24 Vdc / 1 W built-in coil - Integrated M12 connector Oriented side 14, LED & Surge suppressor

	Symbol	Description	Size	Weight (g)	Order code
 HB 18 mm		5/2 Air pilot - Spring return	02 - 18 mm	150	HBEXWBG2G9000FA
		5/2 Air pilot - Differential	02 - 18 mm	150	HB1WXBG2G9000FA
		5/2 Double air pilot	02 - 18 mm	165	HB2WXBG2G9000FA
		5/3 Closed Center (APB)	02 - 18 mm	165	HB5WXBG2G9000FA
 HA 26 mm		5/3 Vented Center	02 - 18 mm	165	HB6WXBG2G9000FA
		5/3 Pressurised Center	02 - 18 mm	165	HB7WXBG2G9000FA
			01 - 26 mm	250	HA5WXBG2G9000FA
			01 - 26 mm	265	HA6WXBG2G9000FA

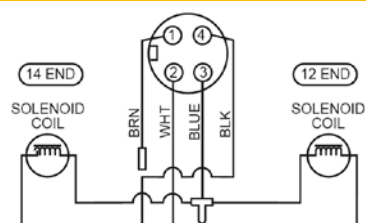
ISO 20401 4-Pin Male / Single Solenoid

4-PIN Micro
(Top Cover)



ISO 20401 4-Pin Male / Double Solenoid

4-PIN Micro
(Top Cover)



Heavy duty valve. Solenoid or air pilot. Vacuum to 10 bar. Wide choice of electrical connections.

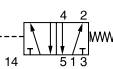
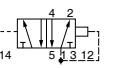
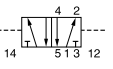
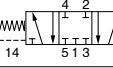
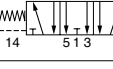
- Size 1, 2, 3
- Heavy duty and corrosion resistant body
- Vacuum to 10 bar
- Internal or external pilot supply with same valve
- Din A, M12, M23 connections



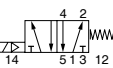
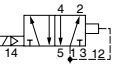
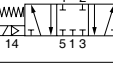
Operation information

Working pressure :	2,0 to 10 bar		
Working temperature :	-15 to +50°C		
	Size 1	Size 2	Size 3
Flow (Qmax.) :	34,5 l/s	69,0 l/s	130,8 l/s
Flow (Qn) :	20,8 l/s	42,0 l/s	83,7 l/s

H Series ISO 5599-1 - Sizes 1, 2 & 3 Pneumatic Remote Pilot operated valve

Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	1 - 43 mm	600	H1FWX000XXD
		2 - 56 mm	1020	H2FWX000XXD
		3 - 71 mm	1300	H3FWX000XXD
	5/2 Single solenoid - Differential	1 - 43 mm	600	H13WX000XXD
		2 - 56 mm	1020	H23WX000XXD
		3 - 71 mm	1300	H33WX000XXD
	5/2 Double solenoid	1 - 43 mm	600	H14WX000XXD
		2 - 56 mm	1020	H24WX000XXD
		3 - 71 mm	1300	H34WX000XXD
	5/3 Closed Center (APB)	1 - 43 mm	600	H18WX000XXD
		2 - 56 mm	1020	H28WX000XXD
		3 - 71 mm	1300	H38WX000XXD
	5/3 Vented Center	1 - 43 mm	600	H19WX000XXD
		2 - 56 mm	1020	H29WX000XXD
		3 - 71 mm	1300	H39WX000XXD
	5/3 Pressurised Center	1 - 43 mm	600	H10WX000XXD
		2 - 56 mm	1020	H20WX000XXD
		3 - 71 mm	1300	H30WX000XXD

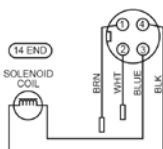
H Series ISO 5599-1 - Sizes 1, 2 & 3 CNOMO operator with Central M12 connector / 24 Vdc / 2,7 W solenoid

Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	1 - 43 mm	770	H1EWXBG2B9000FD
		2 - 56 mm	1290	H2EWXBG2B9000FD
		3 - 71 mm	1570	H3EWXBG2B9000FD
	5/2 Single solenoid - Differential	1 - 43 mm	770	H11WXBG2B9000FD
		2 - 56 mm	1290	H21WXBG2B9000FD
		3 - 71 mm	1570	H31WXBG2B9000FD
	5/2 Double solenoid	1 - 43 mm	1040	H12WXBG2B9000FD
		2 - 56 mm	1460	H22WXBG2B9000FD
		3 - 71 mm	1740	H32WXBG2B9000FD
	5/3 Closed Center (APB)	1 - 43 mm	1040	H15WXBG2B9000FD
		2 - 56 mm	1460	H25WXBG2B9000FD
		3 - 71 mm	1740	H35WXBG2B9000FD
	5/3 Vented Center	1 - 43 mm	1040	H16WXBG2B9000FD
		2 - 56 mm	1460	H26WXBG2B9000FD
		3 - 71 mm	1740	H36WXBG2B9000FD
	5/3 Pressurised Center	1 - 43 mm	1040	H17WXBG2B9000FD
		2 - 56 mm	1460	H27WXBG2B9000FD
		3 - 71 mm	1740	H37WXBG2B9000FD

ISO 20401

4-Pin Male / Single Solenoid

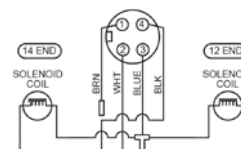
4-PIN Micro
(Top Cover)



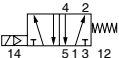
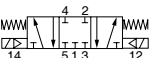
ISO 20401

4-Pin Male / Double Solenoid

4-PIN Micro
(Top Cover)

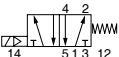
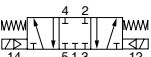


H Series ISO 5599-1 - Sizes 1, 2 & 3**CNOMO operator with 30 x 30 DIN Form A / 24 Vdc / 2,7 W solenoid**

Symbol	Description	Size	Weight (g)	Order code
 	5/2 Single solenoid - Spring return	1 - 43 mm	770	H1EWXBBL49D
		2 - 56 mm	1190	H2EWXBBL49D
		3 - 71 mm	1470	H3EWXBBL49D
	5/2 Single solenoid - Differential	1 - 43 mm	770	H11WXBBL49D
		2 - 56 mm	1190	H21WXBBL49D
		3 - 71 mm	1470	H31WXBBL49D
	5/2 Double solenoid	1 - 43 mm	940	H12WXBBL49D
		2 - 56 mm	1360	H22WXBBL49D
		3 - 71 mm	1640	H32WXBBL49D
 	5/3 Closed Center (APB)	1 - 43 mm	940	H15WXBBL49D
		2 - 56 mm	1360	H25WXBBL49D
		3 - 71 mm	1640	H35WXBBL49D
	5/3 Vented Center	1 - 43 mm	940	H16WXBBL49D
		2 - 56 mm	1360	H26WXBBL49D
		3 - 71 mm	1640	H36WXBBL49D
	5/3 Pressurised Center	1 - 43 mm	940	H17WXBBL49D
		2 - 56 mm	1360	H27WXBBL49D
		3 - 71 mm	1640	H37WXBBL49D

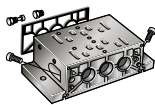
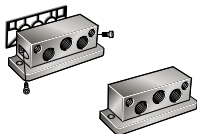
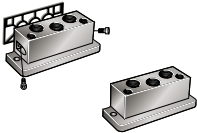
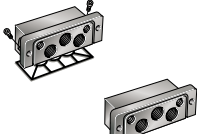
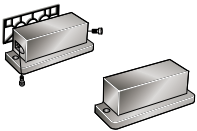
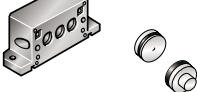
Solenoid connectors & cable plug to be ordered separately. See solenoid section

H Series ISO 5599-1 - Sizes 1, 2 & 3**CNOMO operator without coil**

Symbol	Description	Size	Weight (g)	Order code
 	5/2 Single solenoid - Spring return	1 - 43 mm	650	H1EWXBBNXXD
		2 - 56 mm	1070	H2EWXBBNXXD
		3 - 71 mm	1350	H3EWXBBNXXD
	5/2 Single solenoid - Differential	1 - 43 mm	650	H11WXBBNXXD
		2 - 56 mm	1070	H21WXBBNXXD
		3 - 71 mm	1350	H31WXBBNXXD
	5/2 Double solenoid	1 - 43 mm	700	H12WXBBNXXD
		2 - 56 mm	1120	H22WXBBNXXD
		3 - 71 mm	1400	H32WXBBNXXD
 	5/3 Closed Center (APB)	1 - 43 mm	700	H15WXBBNXXD
		2 - 56 mm	1120	H25WXBBNXXD
		3 - 71 mm	1400	H35WXBBNXXD
	5/3 Vented Center	1 - 43 mm	700	H16WXBBNXXD
		2 - 56 mm	1120	H26WXBBNXXD
		3 - 71 mm	1400	H36WXBBNXXD
	5/3 Pressurised Center	1 - 43 mm	700	H17WXBBNXXD
		2 - 56 mm	1120	H27WXBBNXXD
		3 - 71 mm	1400	H37WXBBNXXD

30 x 30 DIN Form A or 22 x 30 DIN Form B solenoid & solenoid connectors to be ordered separately. See solenoid section

Bottom ported manifold & End plate - ISO 15407-1 - Sizes 02 & 01

Description		Size	Port Size	Weight (g)	Order code		
	Two valve position manifold	Int. pilot supply	02 - 18 mm	1/8 BSPP	200	P2V-AM511PB	
			01 - 26 mm	1/4 BSPP	400	P2V-BM512PB	
	Including seal, fitting screws and plugs.	Ext. pilot supply	02 - 18 mm	1/8 BSPP	200	P2V-AM511NB	
			01 - 26 mm	1/4 BSPP	400	P2V-BM512NB	
	Side ported		Left end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512GS
			Including seal and fitting screws	01 - 26 mm	3/8 BSPP	210	P2V-BM513GS
			Right end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512HS
				01 - 26 mm	3/8 BSPP	210	P2V-BM513HS
	Top ported		Left end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512GT
			Including seal and fitting screws	01 - 26 mm	3/8 BSPP	210	P2V-BM513GT
			Right end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512HT
				01 - 26 mm	3/8 BSPP	210	P2V-BM513HT
	Bottom ported		Left end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512GB
			Including seal and fitting screws	01 - 26 mm	3/8 BSPP	220	P2V-BM513GB
			Right end plate	02 - 18 mm	1/4 BSPP	180	P2V-AM512HB
				01 - 26 mm	3/8 BSPP	220	P2V-BM513HB
	End cover		Left end plate	02 - 18 mm		190	P2V-AM500G0
			Including seal and fitting screws	01 - 26 mm		240	P2V-BM500G0
			Right end plate	02 - 18 mm		190	P2V-AM500H0
				01 - 26 mm		240	P2V-BM500H0
Size manifolds adaptor plate			02 to 01		330	P2V-AM500BE	
	Plug	Left end plate	02 - 18 mm		4	P2V-AK0P	
			01 - 26 mm		10	P2V-BK0P	

Side ported individual subbase - ISO 15407-1 - Sizes 02 & 01

Description		Size	Port Size	Weight (g)	Order code
	Individual Subbase Can be used for External pilot supply or Single or Double pneumatic remote pilot	02 - 18 mm	1/8 BSPP	70	PL02-01-70
			1/8 NPT	70	PL02-01-80
		01 - 26 mm	1/4 BSPP	120	PL01-02-70
			1/4 NPT	120	PL01-02-80

Front ported manifold & End plate - ISO 15407-1 - Sizes 02 & 01

Description		Size	Port Size	Weight (g)	Order code
	Two position manifold base Can be used for External pilot supply Cannot be used for remote pilot	02 - 18 mm	1/8 BSPP	140	PJLP02-201-70
			1/8 NPT	140	PJLP02-201-80
		01 - 26 mm	1/4 BSPP	700	PJLP01-202-70
			1/4 NPT	700	PJLP01-202-80
	Two position manifold base Can be used for External pilot supply using #14 or Single or Double pneumatic remote pilot	01 - 26 mm	1/4 BSPP	730	PJL01-202-70
			1/4 NPT	730	PJL01-202-80
	End plate kit	02 - 18 mm	1/4 BSPP	150	PEJ02-02-70
			1/4 NPT	150	PEJ02-02-80
		01 - 26 mm	3/8 BSPP	520	PEJ01-03-70
			3/8 NPT	520	PEJ01-03-80

Accessories

	Description	Size	Weight (g)	Order code
	Blanking plate	02 - 18 mm	40	DX02BLK
		01 - 26 mm	50	DX01BLK
	Blanking plug	02 - 18 mm	10	D02BD0
		01 - 26 mm	20	D01BD0
	Bolt, Washer and Nut	02 - 18 mm & 01 - 26 mm	120	DX02M2MB

VDMA Side Ported Subbases

 	Description	Size	Port size	Weight (g)	Order code
	Subbases VDMA	1 - 43mm	G1/4	160	P2N-VS512SD
	Side port according to VDMA	2 - 56mm	G3/8	280	P2N-WS513SD
		3 - 71mm	G1/2	350	P2N-YS514SD

VDMA Bottom Ported Manifold

 	Description	Size	Port size	Weight (g)	Order code
	VDMA Form C	1 - 43mm	G1/4	240	P2N-VM512MB
	Bottom port according to VDMA	2 - 56mm	G3/8	360	P2N-WM513MB
		3 - 71mm	G1/2	700	P2N-YM514MB
	VDMA Transition plate	1 to 3	G1/4		P2N-VM500AK
	Size 1 to Size 3				
	Kit includes: Transition plate only				
	VDMA Form D - End plate	1 - 43mm	G3/8	210	P2N-VM513ES
	According to VDMA	2 - 56mm	G1/2	360	P2N-WM514ES
		3 - 71mm	G1	680	P2N-YM518ES
	VDMA Isolation - Main galley	1 - 43mm			P2N-VK0P
	According to VDMA	2 - 56mm			P2N-WK0P
	Kit includes: (1) Isolator plug.	3 - 71mm			P2N-YK0P

Accessories

	Description	Size	Port size	Weight (g)	Order code
	Blanking plate	1 - 43mm	G1/4	100	P2N-AA5B
	Kit includes: (1) Blanking plate, (1) Gasket	2 - 56mm	G3/8	150	P2N-BA5B
	and (4) Mounting bolts	3 - 71mm	G1/2	200	P2N-CA5B

Side ported subbases

	Description	Size	Port size	Weight	Order code BSP	Order code NPT
	Single subbase with side ports 1 3 5 2 4 ports & 12 14	1 - 43mm	G1/4	0.16	PL1-1/4-70	PL1-1/4-80
		1 - 43mm	G3/8	0.16	PL1-3/8-70	
		2 - 56mm	G3/8	0.28	PL2-3/8-70	PL2-3/8-80
		2 - 56mm	G1/2		P2N-HS514SS	
		3 - 71mm	G1/2		PL3-1/2-70	PL3-1/2-80
		3 - 71mm	G3/4		P2N-JS516SD	

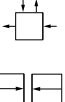
Bottom ported subbases

	Description	Size	Port size	Weight	Order code BSP	Order code NPT
	Single subbase with bottom ports 1 3 5 2 4 ports & 12 14	1 - 43mm	G1/4	0.37	PD1-1/4-70	PD1-1/4-80
		2 - 56mm	G3/8	0.59	PD2-3/8-70	PD2-3/8-80
		3 - 71mm	G1/2	0.59	PD3-1/2-70	

Size 1 bottom ported manifold

 	Description	Size	Port size	Weight	Order code
	Manifold with bottom ports low profile	1 - 43mm	G1/4	0.2	P2N-AM512MB
	Connecting block Top or bottom ported connecting block for above manifold "low profile"	1 - 43mm	G3/8	0.15	P2N-AM513GT
	End End piece for above manifold "low profile"	1 - 43mm	no	0.06	P2N-AM500J
 	Intermediate supply Top or bottom ported intermediate supply for above manifold "low profile"	1 - 43mm	G3/8	0.14	P2N-AM513BT
	Isolation plugs isolating seal for above manifold "low profile"	1 - 43mm		0.07	P2N-AK0P

Sizes 1 & 2 side ported manifold

 	Description	Size	Port size	Weight	Order code
	Manifold Manifold with side port	1 - 43mm	G1/4	0.24	P2N-EM512MD
		2 - 56mm	G3/8	0.21	P2N-FM513MD
	End Side ported connecting kit for above manifold with side ports	1 - 43mm	G3/8	0.36	P2N-EM513ES
		2 - 56mm	G1/2	0.29	P2N-FM514ES

Plug-in 15407-2, Size 02 (18mm - HB) & 01 (26mm - HA) End Plate Kits

Left and Right end plates, with pressure exhaust and auxilliary ports

Individual connection

	Description	ISO Size	Port size	Weight (g)	Order code
	No connector To be used with individually wired base	02 & 01	G3/8"	-	PS5631011P

Multiwiring connection

	Description	ISO Size	Port size	Weight (g)	Order code
	16-Points Terminal Strip	02 & 01	G3/8"	-	PS5620L51P
	25-Pin, D-Sub	02 & 01	G3/8"	-	PS5620L21P
	19-Pin, Round, Brad Harrison	02 & 01	G3/8"	-	PS5620L31P
	M23, 12-Pin	02 & 01	G3/8"	-	PS5620L41P
	M23, 19-Pin	02 & 01	G3/8"	-	PS5620M21P

Accessories

	Description	Protection	Length	Weight (g)	Order code
	25-Pin - D-Sub cable	IP40	3 meters	380	P8LMH25M3A
			9 meters	780	P8LMH25M9A
		IP65	9 meters	790	P8LMH25B9A

Adaptors for Industrial Communication

	Description	ISO Size	Port size	Weight (g)	Order code
	Turck BL76 Valve Driver Module Without 16 DO module 16 outputs and blank module to be ordered seaparely (See Turck BL67 section)	02 & 01	G3/8"	-	PS5620T01P
	Turck BL76 Valve Driver Module For configuration up to 16 solenoids Including 1 x 16 DO & 1 blank module	02 & 01	G3/8"	-	PS5620T11P
	Turck BL76 Valve Driver Module For configuration up to 32 solenoids Including 2 x 16 DO modules	02 & 01	G3/8"	-	PS5620T21P
	Industrial Communication Valve Driver Module For configuration up to 32 solenoids	02 & 01	G3/8"	-	PS5620L61P
	Moduflex Fieldbus module adaptor	02 & 01	G3/8"	-	PS5620M41P

For Turck BL67, Moduflex communication gateways and I/O modules, refer to respective sections in following pages.

Plug-in 15407-2, Size 02 (18mm - HB) & 01 (26mm - HA) Manifold Kits

2 Position Front Ported Manifold



Description		ISO Size	Port size	Weight (g)	Order code
Non collective wiring Terminal strip For single or double solenoid valves		01	G1/4"	520	PS551154CP
	Collective wiring Single address board For single solenoid valves				

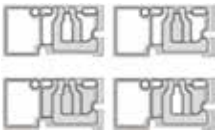
02	G1/8"	450	**PS561152JP**			01	G1/4"	520	**PS551154JP**
Double address board For double solenoid valves	02	G1/8"	450	**PS561152MP**					
01	G1/4"	520	**PS551154MP**						
Extension Manifold Including ribbon cable	Single address board For single solenoid valves	02	G1/8"	450	**PS561152NP**				
01	G1/4"	520	**PS551154NP**						
Double address board For double solenoid valves	02	G1/8"	450	**PS561152PP**					
01	G1/4"	520	**PS551154PP**						

2 Position Front and Bottom Ported Manifold



Description		ISO Size	Port size	Weight (g)	Order code	
	Non collective wiring	Terminal strip For single or double solenoid valves	01	G1/4"	520	PS551164CP
	Collective wiring	Single address board For single solenoid valves	02	G1/8"	450	PS561162JP
			01	G1/4"	520	PS551164JP
		Double address board For double solenoid valves	02	G1/8"	450	PS561162MP
			01	G1/4"	520	PS551164MP
	Extension Manifold Including ribbon cable	Single address board For single solenoid valves	02	G1/8"	450	PS561162NP
			01	G1/4"	520	PS551164NP
		Double address board For double solenoid valves	02	G1/8"	450	PS561162PP
			01	G1/4"	520	PS551164PP

Accessories

Description		Blocked ports	ISO Size	Port size	Weight (g)	Order code
	Blanking Plate		02	G1/8"	-	PS5634P
			01	G1/4"	-	PS5534P
	Manifold to Manifold gasket kit	No port plugged	02 & 01		-	PS561AP
		#1	02 & 01		-	PS561BP
		#1, 3 & 5	02 & 01		-	PS561CP
		#3 & 5	02 & 01		-	PS561DP

Solenoid actuated Iso valve for multiple and centralised field bus (Plug-in)

- Size HA and HB (26mm and 18mm)
- Heavy duty and corrosion resistant body
- Internal led & rectifier
- Internal or external pilot supply with same valve
- Multiple connection, Sub D25, M23, Terminal block
- Communication with Turck BL67 Remote I/O System or Moduflex Bus



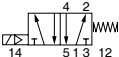
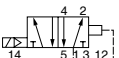
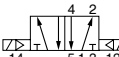
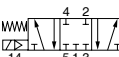
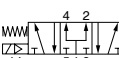
Operation information

Working pressure :	2,0 to 10 bar	
Working temperature :	-15 to +50°C	
	Size 02	Size 01
Flow (Qmax.) :	10,8 l/s	25,3 l/s
Flow (Qn) :	6,5 l/s	15,3 l/s

H Series ISO Plug-in 15407-2 - Sizes 02 & 01

With 24 Vdc / 1 W built-in coil

Manual override non locking, LED & surge suppressor

	Symbol	Description	Size	Weight (g)	Order code
 HB 18 mm		5/2 single solenoid - Spring return	02 - 18mm	130	HBEVXBG0G9A
			01 - 26mm	230	HAEVXBG0G9A
		5/2 single solenoid - Differential	02 - 18mm	130	HB1VXBG0G9A
			01 - 26mm	230	HA1VXBG0G9A
 HA 26 mm		5/2 double solenoid	02 - 18mm	145	HB2VXBG0G9A
			01 - 26mm	245	HA2VXBG0G9A
		5/3 Closed center (APB)	02 - 18mm	145	HB5VXBG0G9A
			01 - 26mm	245	HA5VXBG0G9A
		5/3 Vented center	02 - 18mm	145	HB6VXBG0G9A
			01 - 26mm	245	HA6VXBG0G9A
		5/3 Pressurised center	02 - 18mm	145	HB7VXBG0G9A
			01 - 26mm	245	HA7VXBG0G9A

Plug-in 5599-2, Sizes 1, 2 & 3 End Plate Kits

Left and Right end plates, with pressure exhaust and auxilliary ports

Individual connection

	Description	ISO Size	Port size	Weight (g)	Order code
	No connector	Size 1	G1/2"	1360	PS4031011CP
	To be used with individually wired base	Size 2	G3/4"	1600	PS4131011CP
		Size 3	G3/4"	2800	PS4231011CP

Multiwiring connection

	Description	ISO Size	Port size	Weight (g)	Order code
	25-Pin, D-Sub	Size 1	G1/2"	1360	PS4020L21CP
		Size 2	G3/4"	1600	PS4120L21CP
		Size 3	G3/4"	2800	PS4220L21CP
	19-Pin, Round, Brad Harrison	Size 1	G1/2"	1360	PS4020L31CP
		Size 2	G3/4"	1600	PS4120L31CP
		Size 3	G3/4"	2800	PS4220L31CP
	19-Pin, M23	Size 1	G1/2"	1360	PS4020M21CP
		Size 2	G3/4"	1600	PS4120M21CP
		Size 3	G3/4"	2800	PS4220M21CP
	12-Pin, M23	Size 1	G1/2"	1360	PS4020L41CP
		Size 2	G3/4"	1600	PS4120L41CP
		Size 3	G3/4"	2800	PS4220L41CP

Accessories

	Description	Protection	Length	Weight (g)	Order code
	25-Pin - D-Sub cable	IP40	3 meters	380	P8LMH25M3A
			9 meters	780	P8LMH25M9A
		IP65	9 meters	790	P8LMH25B9A

Adaptors for Industrial Communication

	Description	ISO Size	Port size	Weight (g)	Order code
	Turck BL76 Valve Driver Module Without 16 DO module 16 outputs and blank module to be ordered seaparely (See Turck BL67 section)	Size 1	G1/2"	1400	PS4020T01CP
		Size 2	G3/4"	1600	PS4120T01CP
		Size 3	G3/4"	2800	PS4220T01CP
	Turck BL76 Valve Driver Module For configuration up to 16 solenoids Including 1 x 16 DO & 1 blank module	Size 1	G1/2"	1520	PS4020T11CP
		Size 2	G3/4"	1720	PS4120T11CP
		Size 3	G3/4"	2920	PS4220T11CP
	Turck BL76 Valve Driver Module For configuration up to 32 solenoids Including 2 x 16 DO modules	Size 1	G1/2"	1520	PS4020T21CP
		Size 2	G3/4"	1720	PS4120T21CP
		Size 3	G3/4"	2920	PS4220T21CP
	Industrial Communication Valve Driver Module For configuration up to 32 solenoids	Size 1	G1/2"	1580	PS4020L61CP
		Size 2	G3/4"	1800	PS4120L61CP
		Size 3	G3/4"	3000	PS4220L61CP
	Moduflex Fieldbus module adaptor	Size 1	G1/2"	1300	PS4020M41CP
		Size 2	G3/4"	1500	PS4120M41CP
		Size 3	G3/4"	2700	PS4220M41CP

For Turck BL67, Moduflex communication gateways and I/O modules, refer to respective sections in following pages.

Plug-in 5599-2, Sizes 1, 2 & 3 Manifold Kits

Single Position Front Ported Manifold

Description			ISO Size	Port size	Weight (g)	Order code
	Non collective wiring	Terminal strip For single or double solenoid valves	2 - 56 mm	G1/2"	-	PS411158CCP
			3 - 71 mm	G3/4"	-	PS421150CCP
	Collective wiring	Single address board For single solenoid valves	2 - 56 mm	G1/2"	-	PS411158JCP
			3 - 71 mm	G3/4"	-	PS421150JCP
		Double address board For double solenoid valves	2 - 56 mm	G1/2"	-	PS411158MCP
			3 - 71 mm	G3/4"	-	PS421150MCP

Single Position Front & Bottom Ported Manifold

Description			ISO Size	Port size	Weight (g)	Order code
	Non collective wiring	Terminal strip For single or double solenoid valves	1 - 43 mm	G3/8"	-	PS401166CCP
			2 - 56 mm	G1/2"	-	PS411168CCP
			3 - 71 mm	G3/4"	-	PS421160CCP
	Collective wiring	Single address board For single solenoid valves	1 - 43 mm	G3/8"	-	PS401166JCP
			2 - 56 mm	G1/2"	-	PS411168JCP
			3 - 71 mm	G3/4"	-	PS421160JCP
		Double address board For double solenoid valves	1 - 43 mm	G3/8"	-	PS401166MCP
			2 - 56 mm	G1/2"	-	PS411168MCP
			3 - 71 mm	G3/4"	-	PS421160MCP

Accessories

Description			ISO Size	Port size	Weight (g)	Order code
	Blanking Plate		1 - 43 mm	G3/8"	-	PS4034CP
			2 - 56 mm	G1/2"	-	PS4134CP
			3 - 71 mm	G3/4"	-	PS4234CP
	Insulating Plugs		1 - 43 mm	G3/8"	-	PS4032CP
			2 - 56 mm	G1/2"	-	PS4132CP
			3 - 71 mm	G3/4"	-	PS4232CP
	Manifold to Manifold Gasket Kit		1 - 43 mm	G3/8"	-	PS4013P
			2 - 56 mm	G1/2"	-	PS4113P
			3 - 71 mm	G3/4"	-	PS4213P

Solenoid actuator Iso valve for multiple and centralised field bus

- Size 1, 2, 3
- Heavy duty and corrosion resistant body
- Internal led rectifier
- Internal or external pilot supply with same valve
- Multiple connection, SubD25, M23, Terminal block
- Communication with Turck BL67 Remote I/O System or Moduflex Bus

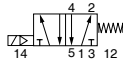
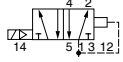
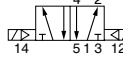
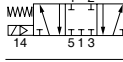
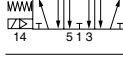
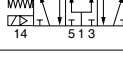


Operation information

Working pressure :	2,0 to 10 bar		
Working temperature :	-15 to +50°C		
	Size 1	Size 2	Size 3
Flow (Qmax.) :	34,5 l/s	69,0 l/s	130,8 l/s
Flow (Qn) :	20,8 l/s	42,0 l/s	83,7 l/s

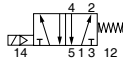
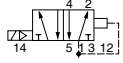
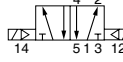
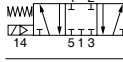
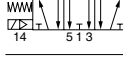
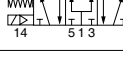
H Series ISO 5599-2 - Sizes 1, 2 & 3

Solenoid operated ISO valve with operator and 24 Vdc / 2,7 W Plug-in coil

Symbol	Description	Size	Weight (g)	Order code
	5/2 single solenoid - Spring return	1 - 43 mm	770	H1EVXBG0B9D
		2 - 56 mm	1190	H2EVXBG0B9D
		3 - 71 mm	1470	H3EVXBG0B9D
	5/2 single solenoid - Differential	1 - 43 mm	770	H11VXBG0B9D
		2 - 56 mm	1190	H21VXBG0B9D
		3 - 71 mm	1470	H31VXBG0B9D
	5/2 double solenoid	1 - 43 mm	940	H12VXBG0B9D
		2 - 56 mm	1360	H22VXBG0B9D
		3 - 71 mm	1640	H32VXBG0B9D
	5/3 Closed center (APB)	1 - 43 mm	940	H15VXBG0B9D
		2 - 56 mm	1360	H25VXBG0B9D
		3 - 71 mm	1640	H35VXBG0B9D
	5/3 Vented center	1 - 43 mm	940	H16VXBG0B9D
		2 - 56 mm	1360	H26VXBG0B9D
		3 - 71 mm	1640	H36VXBG0B9D
	5/3 Pressurised center	1 - 43 mm	940	H17VXBG0B9D
		2 - 56 mm	1360	H27VXBG0B9D
		3 - 71 mm	1640	H37VXBG0B9D

H Series ISO 5599-2 - Sizes 1, 2 & 3

Solenoid operated ISO valve with operator without Plug-in coil

Symbol	Description	Size	Weight (g)	Order code
	5/2 single solenoid - Spring return	1 - 43 mm	650	H1EVXBG0NXXD
		2 - 56 mm	1070	H2EVXBG0NXXD
		3 - 71 mm	1350	H3EVXBG0NXXD
	5/2 single solenoid - Differential	1 - 43 mm	650	H11VXBG0NXXD
		2 - 56 mm	1070	H21VXBG0NXXD
		3 - 71 mm	1350	H31VXBG0NXXD
	5/2 double solenoid	1 - 43 mm	700	H12VXBG0NXXD
		2 - 56 mm	1120	H22VXBG0NXXD
		3 - 71 mm	1400	H32VXBG0NXXD
	5/3 Closed center (APB)	1 - 43 mm	700	H15VXBG0NXXD
		2 - 56 mm	1120	H25VXBG0NXXD
		3 - 71 mm	1400	H35VXBG0NXXD
	5/3 Vented center	1 - 43 mm	700	H16VXBG0NXXD
		2 - 56 mm	1120	H26VXBG0NXXD
		3 - 71 mm	1400	H36VXBG0NXXD
	5/3 Pressurised center	1 - 43 mm	700	H17VXBG0NXXD
		2 - 56 mm	1120	H27VXBG0NXXD
		3 - 71 mm	1400	H37VXBG0NXXD

Plug-in Coil for 5599-2 ISO Valve - Sizes 1, 2 & 3

Description	Voltage	Weight (g)	Order code
Plug-in coil	12 Vdc	-	PS404145P
	24 Vdc	-	PS4041B9P
	24 Vac	-	PS404142P
	120 Vac	-	PS404123P
	240 Vac	-	PS404157P



Sandwich regulator for Plug-in or not Plug-in ISO 15407 (Sizes 02 & 01) and 5599 (Sizes 1, 2 & 3)

Order chart

Function Description see below

PS40 **37** **1** **6** **6** **CP**

ISO Size	
ISO 15407	
PS56	Size 02 (HB - 18 mm)
PS55	Size 01 (HA - 26 mm)
ISO 5599	
PS40	Size 1 (H1 - 43 mm)
PS41	Size 2 (H2 - 56 mm)
PS42	Size 3 (H3 - 71 mm)

ISO Version	
P	For ISO 15407
CP	For ISO 5599

Connecting version	
37	ISO-1 : For Non Plug-in Valve
38	ISO-2 : For Plug-in Valve

Regulator function	
1	Common Pressure Regulator
2	Independent Pressure Regulator

Port 4	
0	Line By-Pass Plate**
1	0-2 Bar - without gauge
2	0-4 Bar - without gauge
3	0-8 Bar - without gauge
4	0-2 Bar - with gauge
5	0-4 Bar - with gauge
6	0-8 Bar - with gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both port #4 and Port #2 (Example: 166)

** For H1, H2 & H3 only. Pressure Line By-Pass Option can only be used with Independent Pressure Regulators

Pressure Regulators functions

Common port regulation

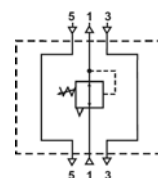
Provides adjustable regulated air pressure to the valves #1 port which gives the same regulated pressure to both the #2 and #4 port of the manifold or subbase. The regulator is always on the 14 end of the valve.



For HB & HA



For H1, H2 & H3



Part number code 1 X X

Independent port regulation

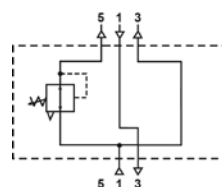
Single Port Regulator

Provides regulated pressure to both ports. Pressure regulation can occur out of the #2 or #4 port of the valve. Full line pressure would be provided with a pass plate.



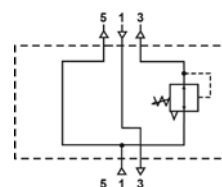
For H1, H2 & H3

Regulation on port #4



Part number code 2 X 0

Regulation on port #2



Part number code 2 0 Y

Dual Port Regulator

When using an independent Pressure Sandwich Regulator, the cylinder outlet ports are reversed. The 12 end energizes the #2 port. The 3-position CE and PC functions are also reversed.

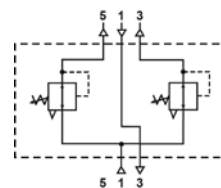


For HB & HA



For H1, H2 & H3

Regulation on both ports #4 & #2



Part number code 2 X Y

Sandwich regulator with Gauge

	ISO Size	Regulator function	Pressure On port 4 and / or port 2	Order code	
				ISO-1 Non Plug-in	ISO-2 Plug-in
	02 - 18 mm	Common	0 to 4 bar	PS5637155P	PS5638155P
			0 to 8 bar	PS5637166P	PS5638166P
		Independent	0 to 4 bar	PS5637255P	PS5638255P
			0 to 8 bar	PS5637266P	PS5638266P
	01 - 26 mm	Common	0 to 4 bar	PS5537155P	PS5538155P
			0 to 8 bar	PS5537166P	PS5538166P
		Independent	0 to 4 bar	PS5537255P	PS5538255P
			0 to 8 bar	PS5537266P	PS5538266P
	1 - 43 mm	Common	0 to 4 bar	PS4037155CP	PS4038155CP
			0 to 8 bar	PS4037166CP	PS4038166CP
		Independent	0 to 4 bar	PS4037255CP	PS4038255CP
			0 to 8 bar	PS4037266CP	PS4038266CP
	2 - 56 mm	Common	0 to 4 bar	PS4137155CP	PS4138155CP
			0 to 8 bar	PS4137166CP	PS4138166CP
		Independent	0 to 4 bar	PS4137255CP	PS4138255CP
			0 to 8 bar	PS4137266CP	PS4138266CP
	3 - 71 mm	Common	0 to 4 bar	PS4237155CP	PS4238155CP
			0 to 8 bar	PS4237166CP	PS4238166CP
		Independent	0 to 4 bar	PS4237255CP	PS4238255CP
			0 to 8 bar	PS4237266CP	PS4238266CP

How to Configure Sandwich Regulator / Valve Combinations

Ordering Components

- Manifold or Subbase Kit required.
- Sandwich Regulator Kit configured for Internal Pilot as standard.
- Order valve as External Pilot.

Internal Pilot Configuration

Pressure in Base Port 1 feeds regulator configured for Internal Pilot which feeds valve configured for External Pilot.

External Pilot Configuration - H1, H2, H3

An External Pilot pressure in port 12 or 14 of the base feeds through the Sandwich Regulator 12 or 14 galley directly to the 12/14 pilot of the valve. This configuration takes an External Pilot from the 12 port of the base and passes it through the regulator to feed the 12 galley of the valve.

Sandwich Regulator Accessories

	Description	Pressure range	w (g)	Order code
	Gauge kit Including: Gauge 1/8" female to 1/8" female coupling 1/8" male to 1/8" male long nipple	0 to 8 bar	80	PS5651160P

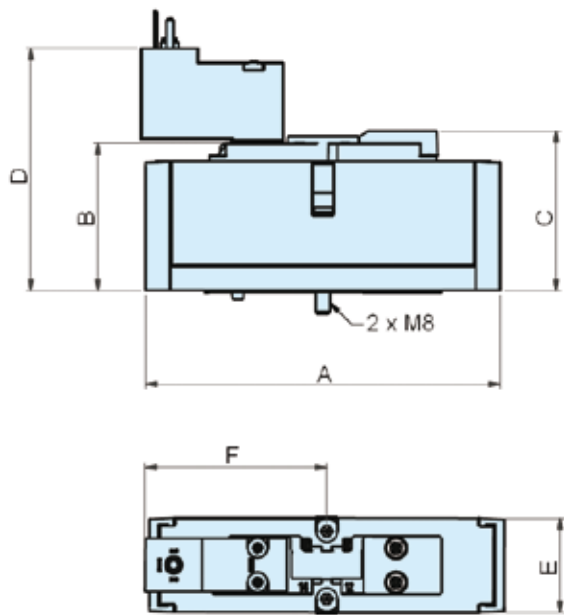
Sandwich Flow Control

	ISO Size	w (g)	Order code	
			ISO-1 Non Plug-in	ISO-2 Plug-in
	02 - 18 mm	180	PS5635P	PS5642P
	01 - 26 mm	240	PS5535P	PS5542P
	1 - 43 mm	340	PS4035CP	PS4042CP
	2 - 56 mm	520	PS4135CP	PS4142CP
	3 - 71 mm	1180	PS4235CP	PS4242CP

Note:

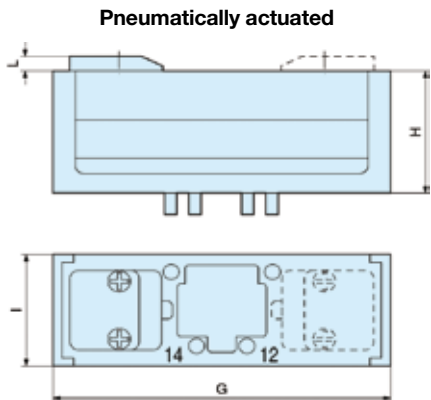
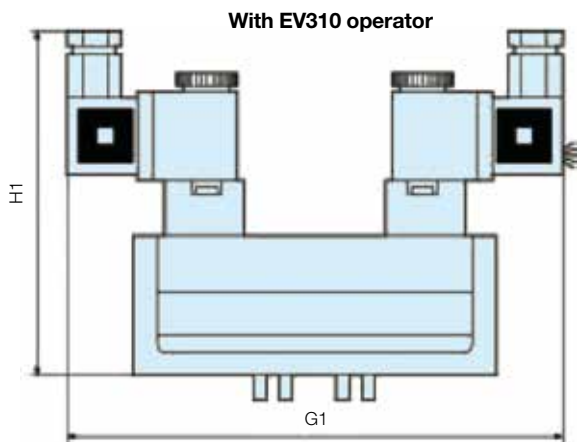
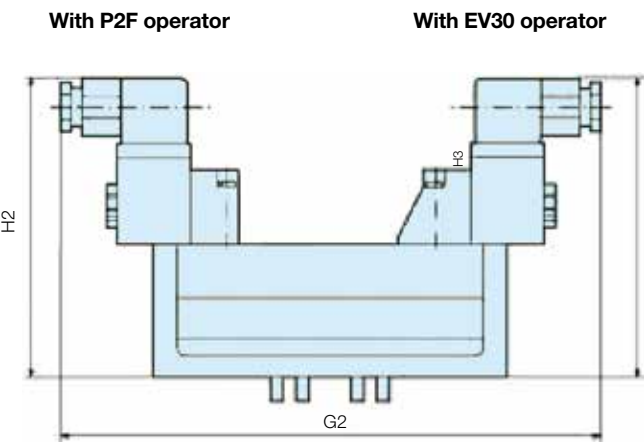
- Both adjustment screws are located on the same 12 end of the unit
- Sandwich Flow Control mounts with its own studs, which means the valve uses standard bolts for mounting
- Sandwich Flow Control is not to be used as a shut off device and is not bubble tight when needles are fully turned down

ISOMAX - ISO 15407-1 - Sizes 02 & 01



	A	B	C	D	E	F
ISOMAX 02	80	41	44,5	67,8	18	51,2
ISOMAX 01	100	42	45,5	68,8	26	51,2

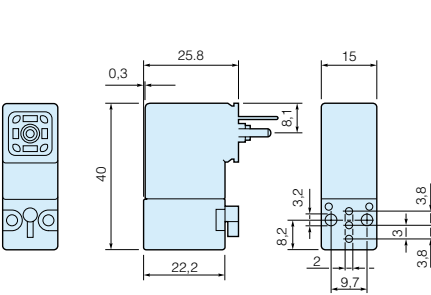
ISOMAX - ISO 5599-1 - Sizes 1, 2 & 3



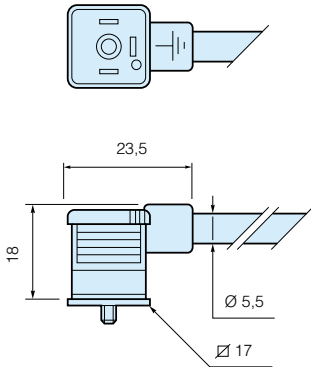
	G	G1	G2	H	H1	H2	I	L
Size 1	120	164	202,5	47	115	119	42	5
Size 2	140	179,5	218	58,5	126,5	130	54	5
Size 3	170	198	235,5	71	139	142,5	68	5

15 mm DIN Form C solenoid operators and connectors

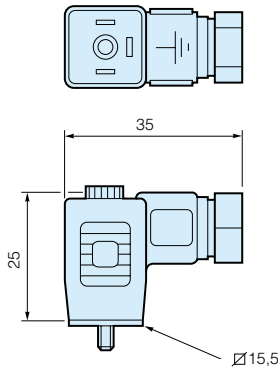
P2E Operator



Connector with standard screw

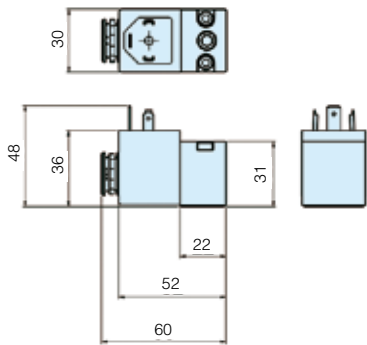


Connector with large headed screw

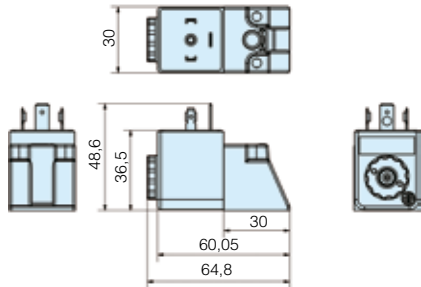


CNOMO 22 x 30 solenoid operators and connectors

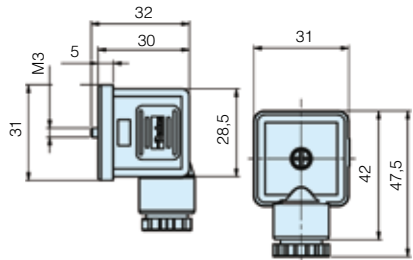
**P2F Operator
with 30 x 30 DIN form A coil**



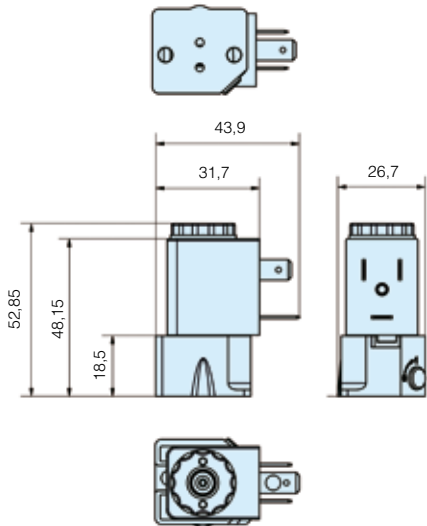
**EV30 Operator
with 30 x 30 DIN form A coil**



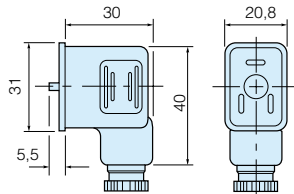
30 x 30 DIN form A connector



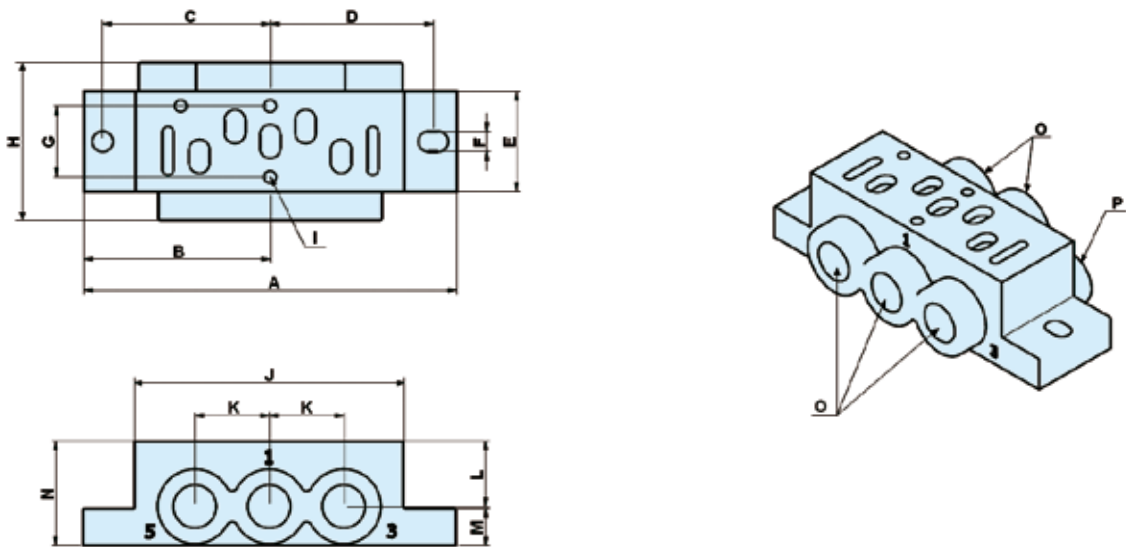
EV310 Operator with 22 x 30 DIN form B coil



22 x 30 DIN form B connector

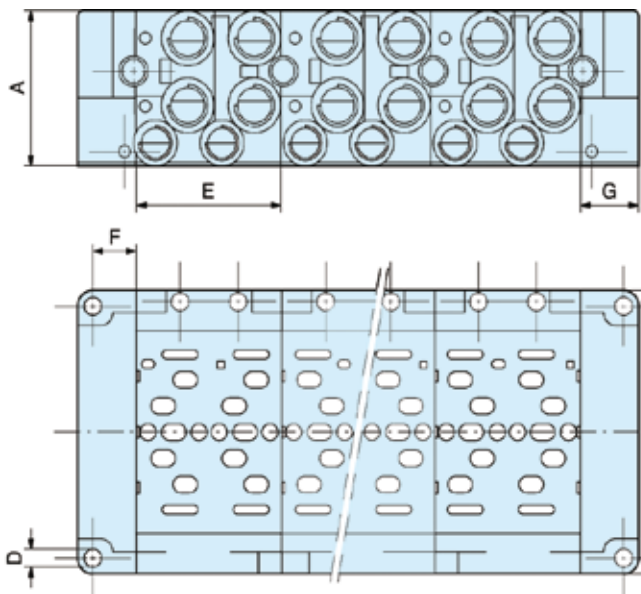


Side ported individual subbase - ISO 15407-1 - Sizes 02 & 01



		Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PL02-01-70	BSPP	02	80	40	35	33.75	19	5.5	12.5	27	M8	50	16	14	8	22.5	1/8	1/8
PL02-01-80	NPT	02	80	40	35	33.75	19	5.5	12.5	27	M8	50	16	14	8	22.5	1/8	1/8
PL01-02-70	BSPP	01	100	50	45	43.75	27	5.5	19	42,5	M8	72	20	17,5	10	28	1/4	1/8
PL01-02-80	NPT	01	100	50	45	43.75	27	5.5	19	42,5	M8	72	20	17,5	10	28	1/4	1/8

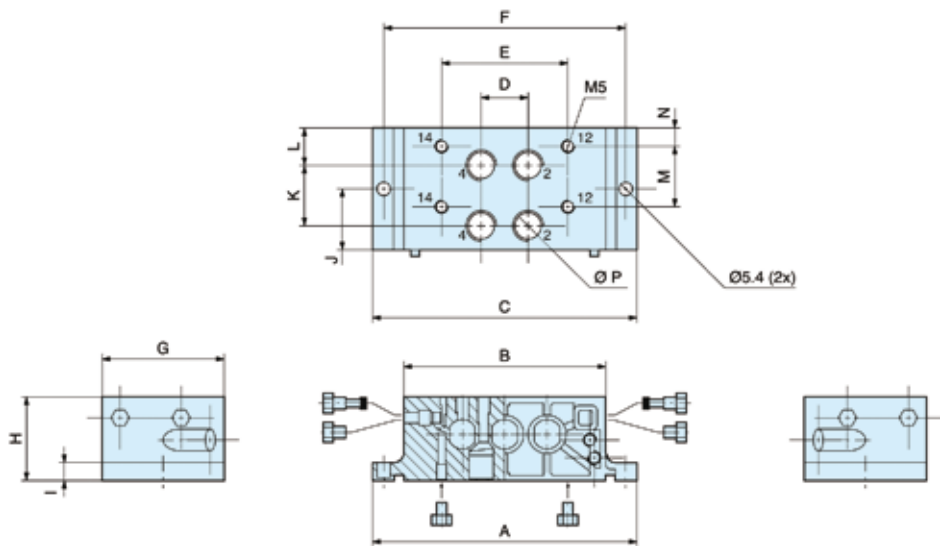
Front ported manifold & End plate - ISO 15407-1 - Sizes 02 & 01



		Size	A	B	C	D	E	F	G	H
PJLP02-201-70	BSPP	02	38,5	80	-	-	38	-	-	-
PJLP02-201-80	NPT	02	38,5	80	-	-	38	-	-	-
PJLP01-202-70	BSPP	01	55	100	-	-	54	-	-	-
PJLP01-202-80	NPT	01	55	100	-	-	54	-	-	-
PJL01-202-70	BSPP	01	55	100	-	-	54	-	-	-
PJL01-202-80	NPT	01	55	100	-	-	54	-	-	-
PEJ02-02-70	BSPP	02	38,5	80	12	Ø4,2	-	14	18	70
PEJ02-02-80	NPT	02	38,5	80	12	Ø4,2	-	14	18	70
PEJ01-03-70	BSPP	01	55	100	24	Ø5,5	-	17	22	90
PEJ01-03-80	NPT	01	55	100	24	Ø5,5	-	17	22	90

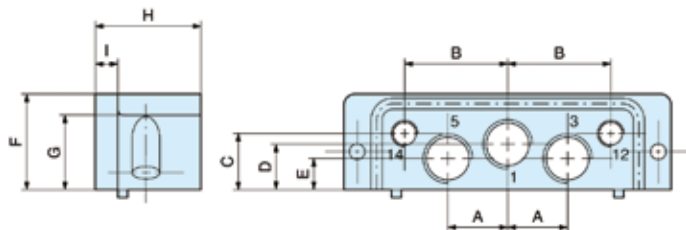
PJLP01-201-70
PJLP01-202-70

Bottom ported manifold - ISO 15407-1 - Sizes 02 & 01



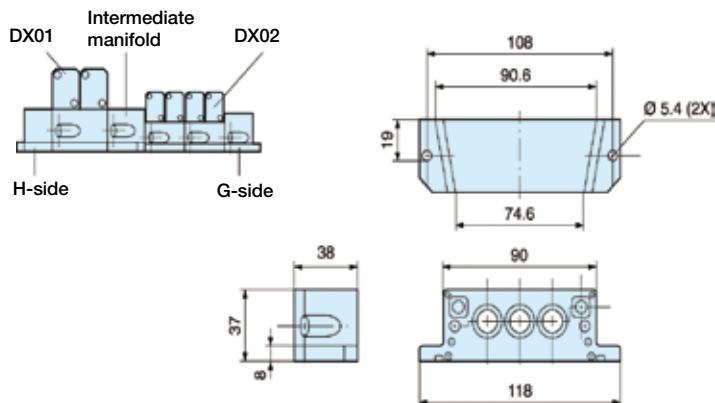
	Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
P2V-AM511PB	02	102	74	74,6	16	43	92	38	26	7	19	19	11	19	5	G1/8
P2V-BM512PB	01	118	90	90,6	21	56,5	108	54	37	8	27	27	16,5	27	8	G1/4

Bottom ported End plate - ISO 15407-1 - Sizes 02 & 01



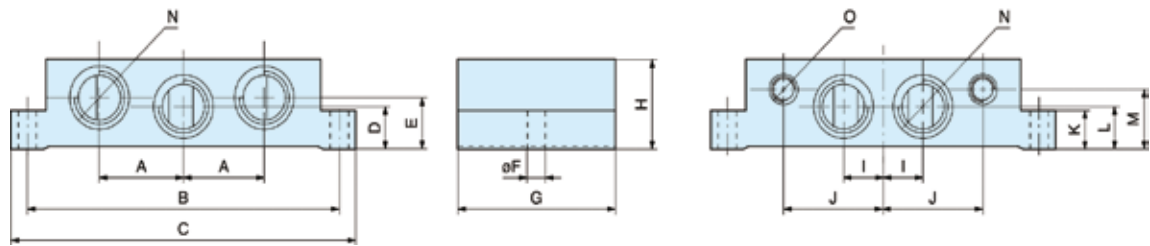
	Size	Port size 1,2,3	Port size 12, 14	A	B	C	D	E	F	G	H	I
P2V-AM512XX and P2V-AM512XX	02	G1/4	G1/8	17	29	21	18,5	9,5	35,5	28	33	7
P2V-BM513XX and P2V-BM513XX	01	G3/8	G1/8	21,5	37	20	16	11	34,5	28	38	8

Transfer plate size 01 to size 02 for above bottom ported manifold



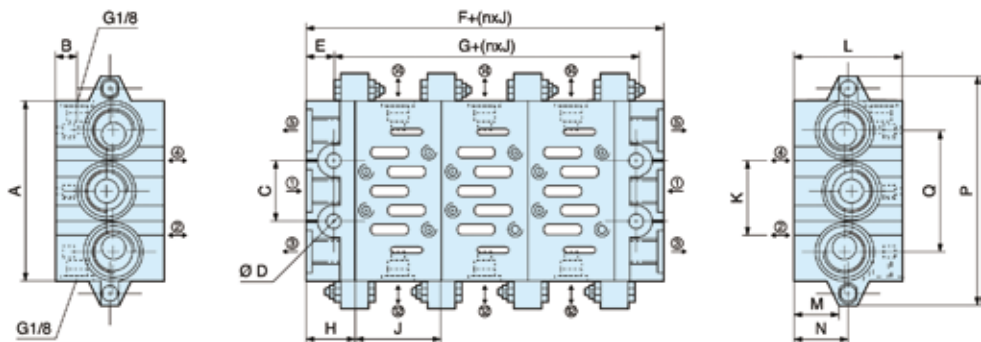
ISO 5599-1 Subbase & Manifolds

VDMA Side Ported Subbases



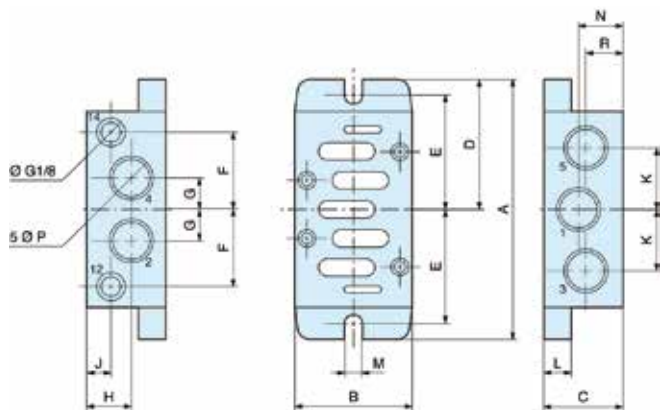
Order code	ISO Size	Port Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
P2N-VS512SD	1	G1/4	21,5	98	110	11	20	5,5	48	32	12	29	10	11	23	G1/4	G1/8
P2N-WS513SD	2	G3/8	28	112	124	14	26	6,6	56	40	15	37	13	14	30	G3/8	G1/8
P2N-YS514SD	3	G1/2	34	136	149	17	17	6,6	71	32	16	45	18	17	22	G1/2	G1/8

VDMA Bottom Ported Manifold

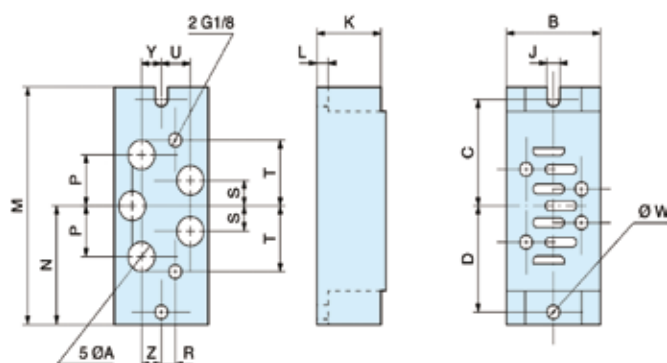


Order code	ISO Size	Port 1, 3, 5	Port 2, 4	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
P2N-VM512MB	1	G3/8	G1/4	85	8,5	28	7	11	44	22	22	43	26	46	21	24	56	110
P2N-WM513MB	2	G1/2	G3/8	100	9	35	9	13	52	26	26	56	30	47	22	24	68	135
P2N-YM514MB	3	G1	G1/2	140	10	52	12	15	60	30	30	71	38	56	31	34	104	190

Side ported subbases

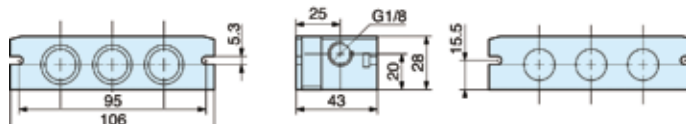


Order code	ISO Size	ØP	A	B	C	D	E	F	G	H	J	K	L	M	N	R
PL1-1/4-70	1	G1/4	110	46	29	55	49	30	11	17,75	17,75	22	6	5,5	17,75	17,75
PL2-3/8-70	2	G3/8	124	56	37	62	55	37	14,5	22,5	14	28	6	5,5	22,5	14,5
P2N-JS516SD	3	G3/4	149	71	60	74,5	68	45	21	33	10	40	18	6,6	37,5	22,5

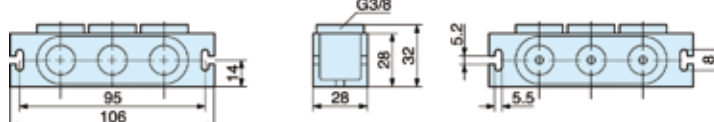


Order code	ISO Size	A	B	C	D	J	K	L	M	N	P	R	S	T	U	W	Y	Z
PD1-1/4-70	1	G1/4	46	49	49	5,5	29	6	110	55	22	10	11	30	10	5,5	10	10
PD2-3/8-70	2	G3/8	56	55	55	5,5	37	6	124	62	29	10	14,5	37	12,5	5,5	12,5	12,5
PD3-1/2-70	3	G1/2	77	68	68	6,6	32	18	149	74,5	34	10	17	45	17	6,5	17	17

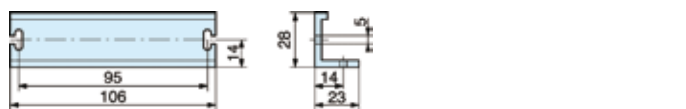
Manifold P2N-AM512MB



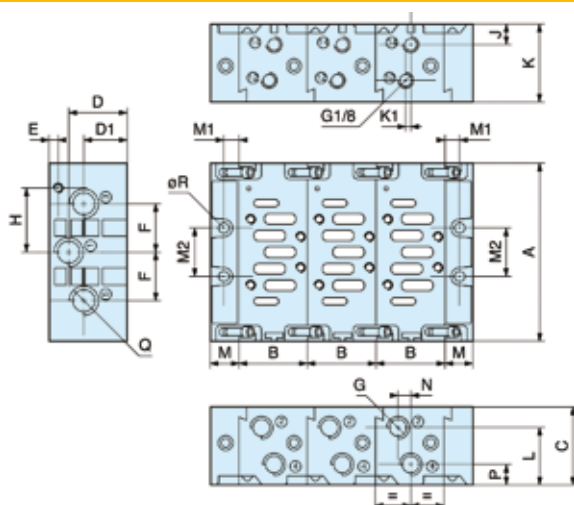
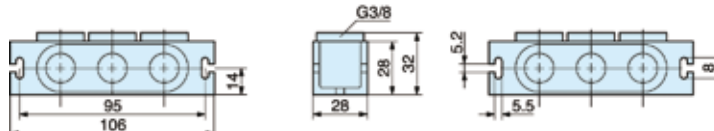
Connecting block P2N-AM513GT



End piece P2N-AM500J



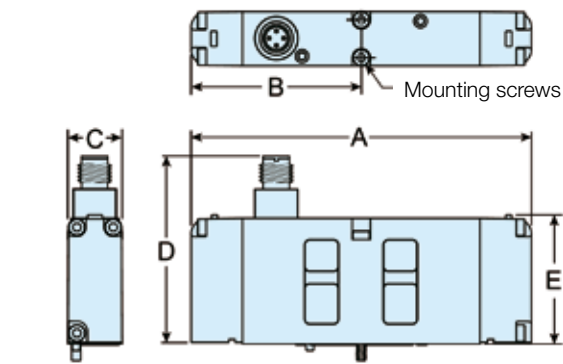
Intermediate supply P2N-AM513BT



Order code	A	B	C	D	D1	E	F	G	H	J	K	K1	L	M	M1	M2	N	P	Q	R
P2N-EM . . .	110	43	48	35,5	26,5	5,5	28	G1/4	36	15,5	35	3	32	20	11	28	12	12,5	G3/8	6
P2N-FM . . .	129	56	60	44,5	35,5	6	34,5	G3/8	45	16	41,5	3	41	24	13	35	12,5	16	G1/2	8

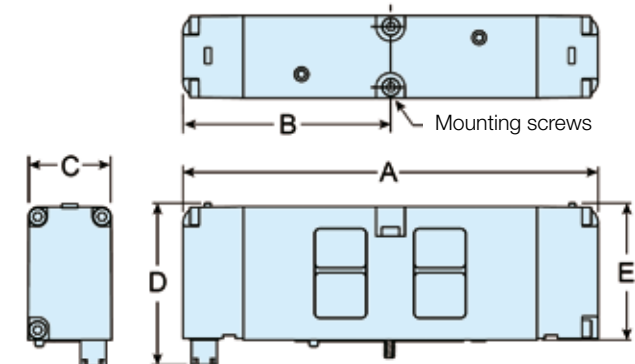
H Series ISO Valves

HA / HB Series - ISO 15407-1



	A	B	C	D	E
HB	113	56	18	61	43
HA	130	65	26	61	42

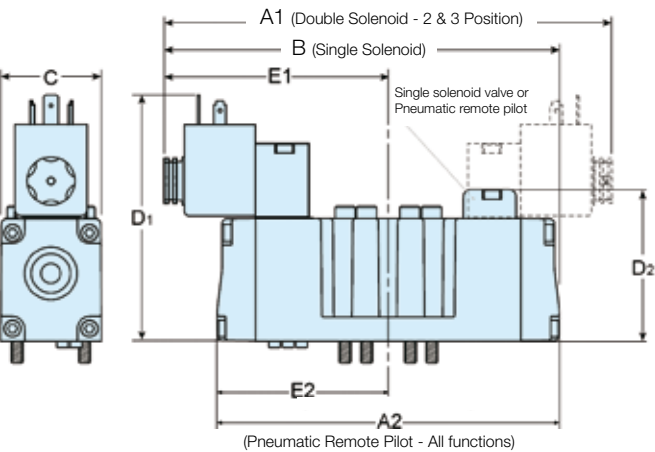
HA / HB Series - ISO 15407-2



	A	B	C	D	E
HB	113	56	18	50	43
HA	130	65	26	50	42

H1 / H2 / H3 Series - ISO 5599-1

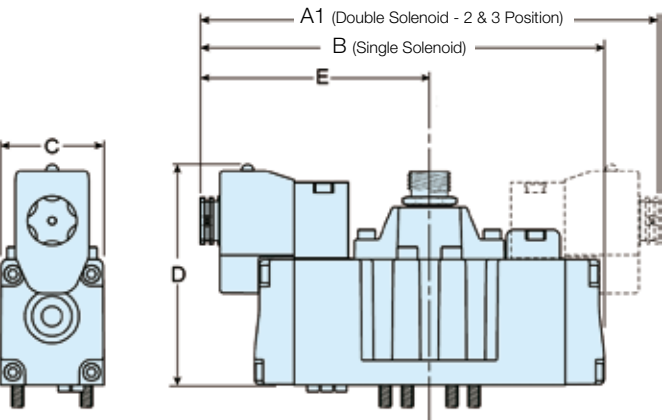
CNOMO Operator or Remote Pilot



	A1	A2	B	C	D1	D2	E1	E2
H1	186	142	164	42	109	63,5	93	71
H2	212	168	190	55	122	76	106	84
H3	241	177	209	55	122	76	121	89

H1 / H2 / H3 Series - ISO 5599-2

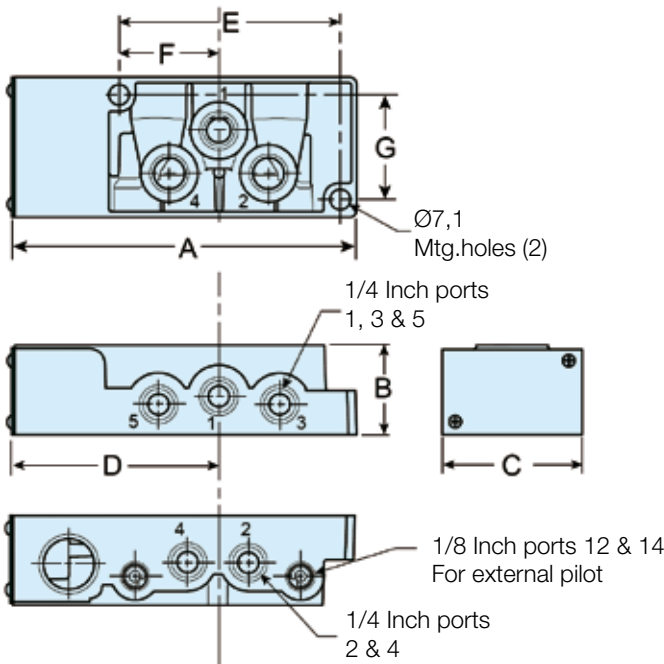
Plug-in and M12 Connector Versions



	A	B	C	D	E
H1	186	164	42	90	93
H2	212	190	55	103	106
H3	241	209	55	103	121

H Series ISO Valves Subbases

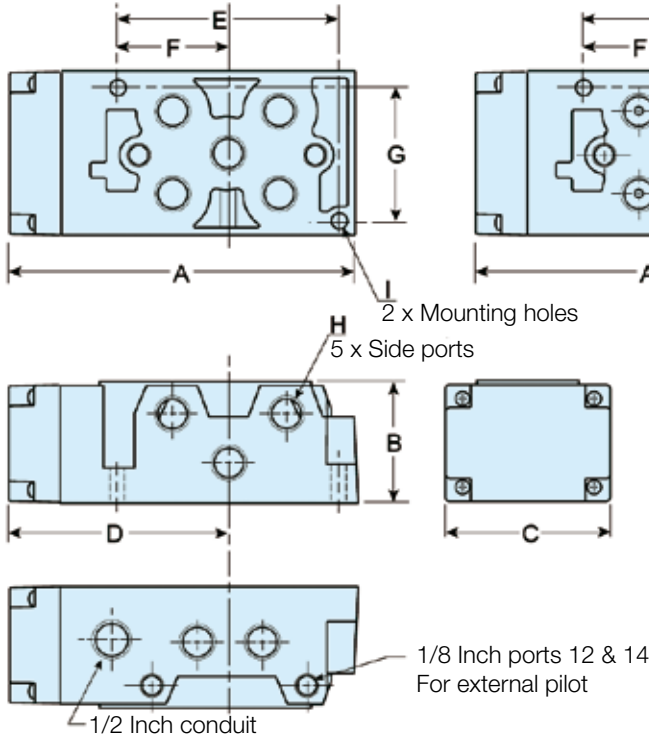
HA Series - ISO 15407-1 & -2



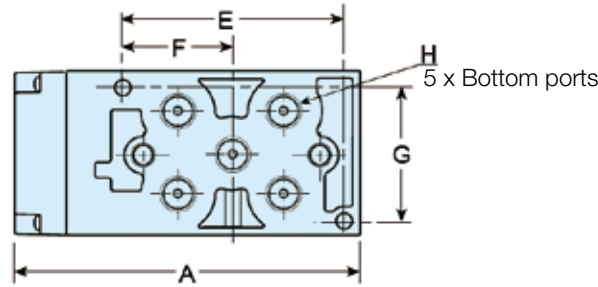
	A	B	C	D	E	F	G
HA	124	32,5	50,8	74	36,2	80,2	37,9

H1 / H2 / H3 Series - ISO 5599-1 & -2

Side Ported Subbase



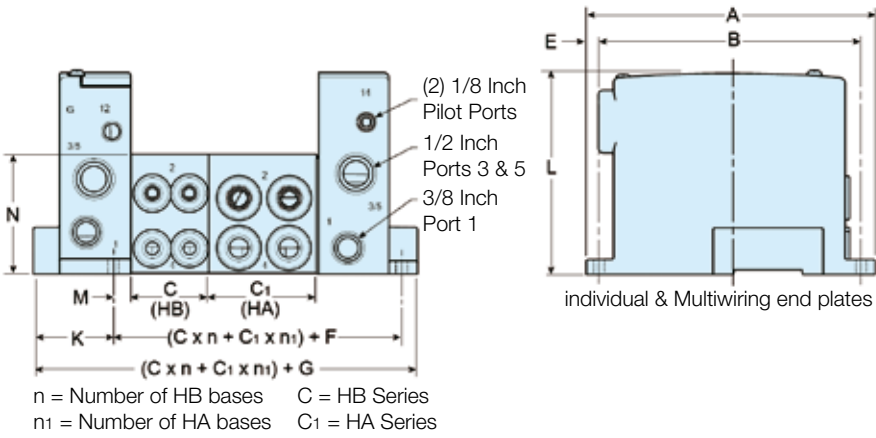
Bottom Ported Subbase



	A	B	C	D	E	F	G	H	I
H1	148	38	64	98	84	40	51	3/8"	5,5
H2	170	59	80	108	107	52	65	1/2"	7,1
H3	201	75	99	125	131	64	82	3/4"	9

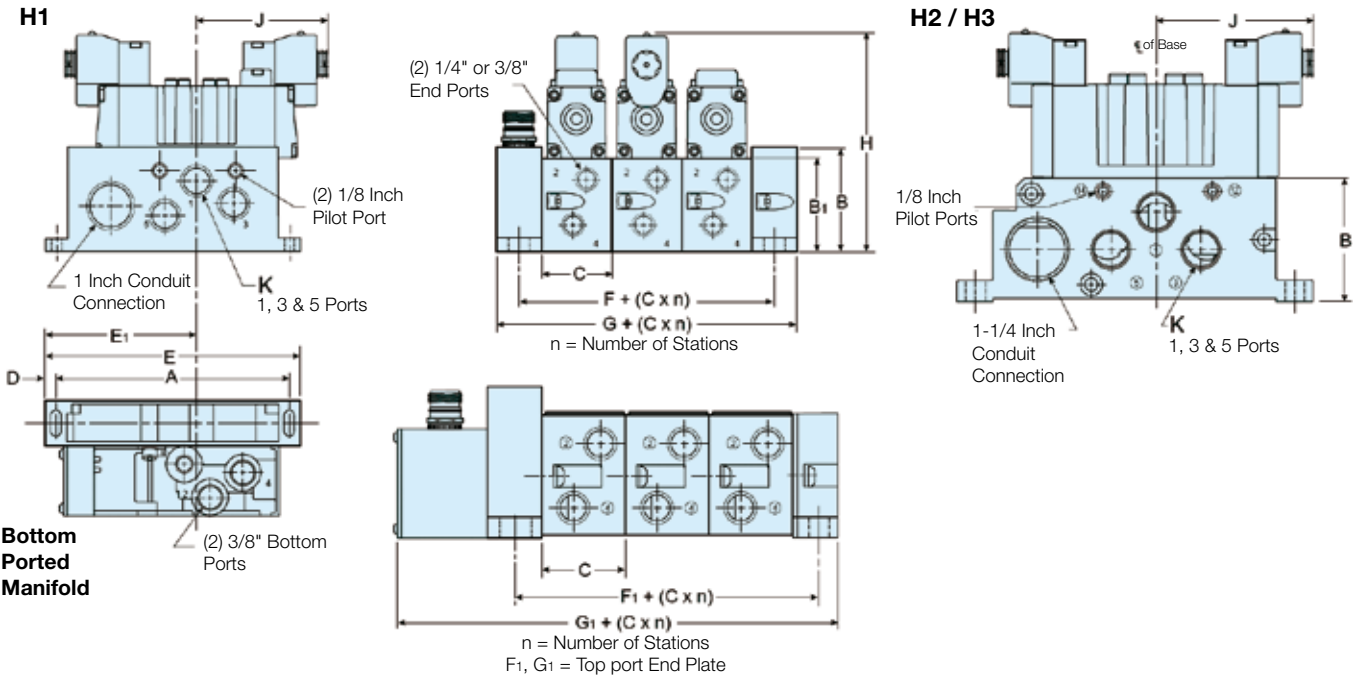
H Series ISO Valve Manifolds

HA/HB Series - ISO 15407-2



	A	B	C	C1	D	E	F
HA/HB	152	137	40,8	56,8	16	7,5	54,4
	G	H	J	K	L	M	N
HA/HB	104,6	109,8	4	42,7	106	8,4	63

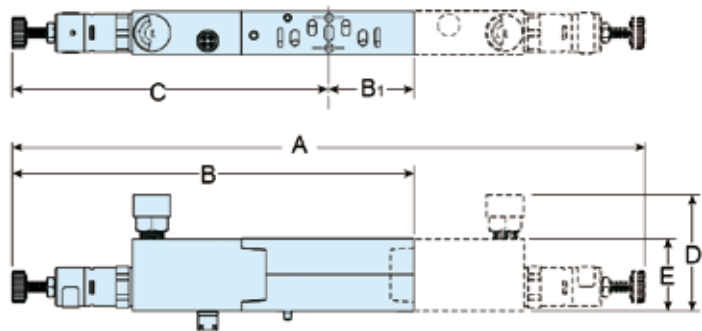
H1 / H2 / H3 Series - ISO 5599-2



	A	B	B1	C	D	E	E1	F	F1	G	G1	H	J	K
H1	165	73	67	50	8	182	108	32	-	63,5	86	157	93	1/2"
H2	215	85	-	56	12	239	134	30	33	60	96	188	106	3/4"
H2	265	105	-	71	15	295	159	33	41	63	111	208	-	1"

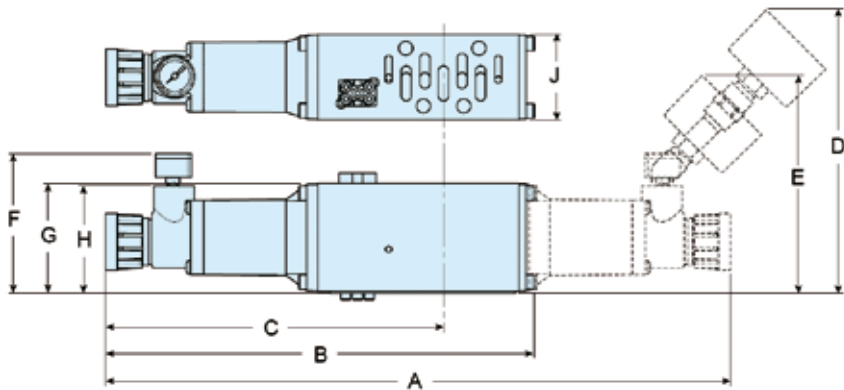
Sandwich Regulator with Gauge

HA / HB Series



	A	B	B1	C	D	E
HB	261	156	26	130	66	30
HA	254	163	36	127	69	30

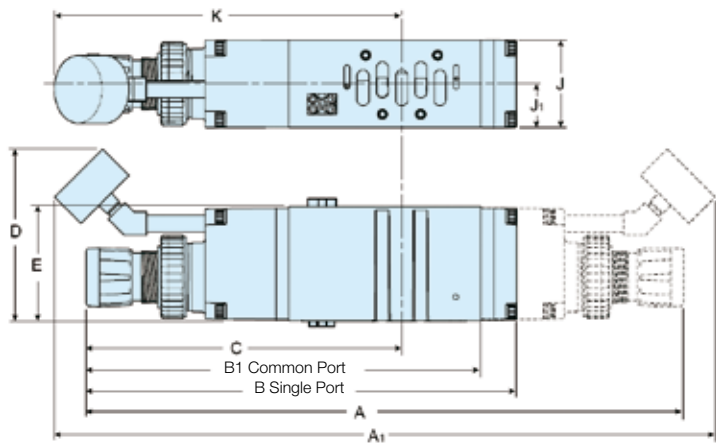
H1 Series



Liquid Gauge &
Large Air Gauge
Dimensions

	A	B	C	D	E	F	G	H	J
H1	301	207	163	138	108	72	53	52	41

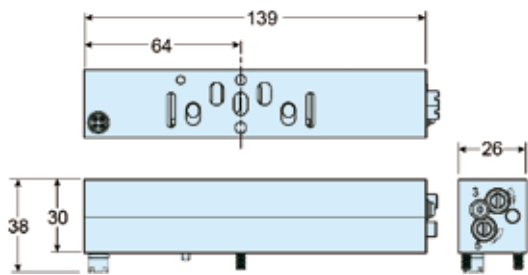
H2 / H3 Series



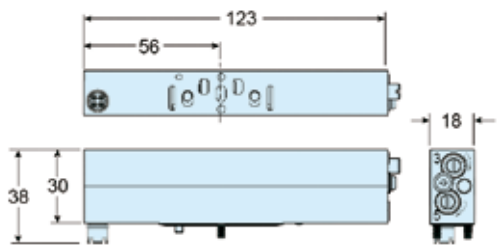
	A	A1	B	B1	C	D	E	J	J1	K
H2	372	411	268	250	196	107	71	55	27	216
H3	398	436	293	271	213	107	75	64	32	231

Sandwich Flow Control

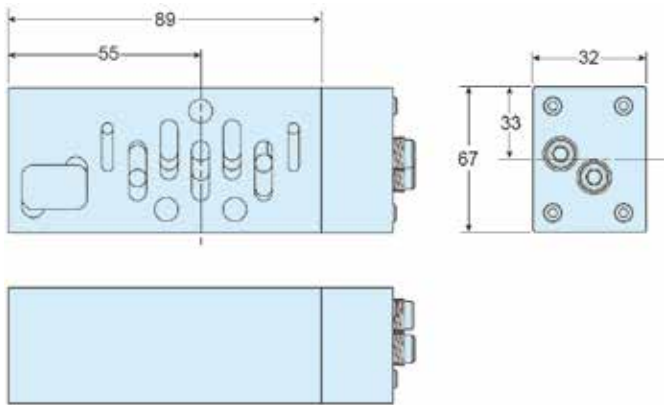
HA Series



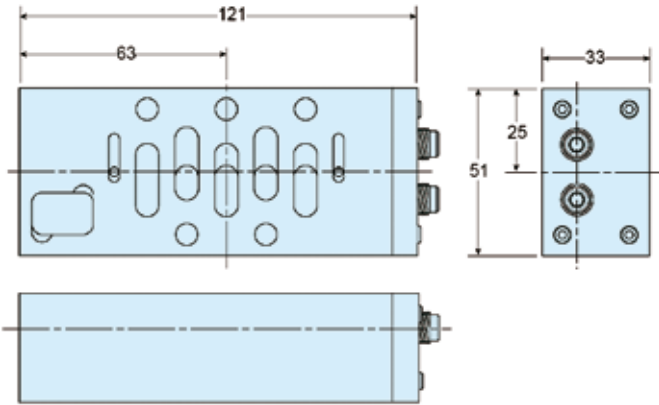
HB Series



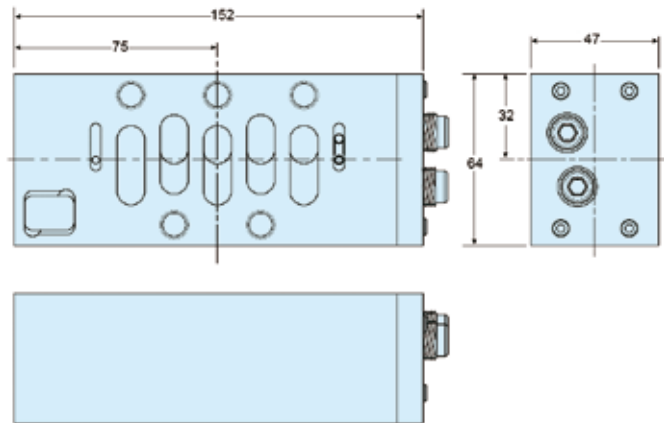
H1 Series



H2 Series



H3 Series

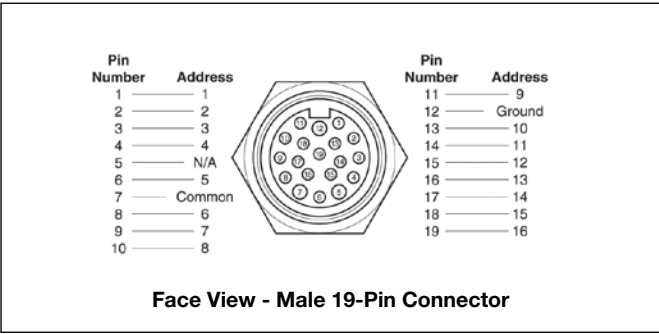


Maximum Solenoids Energized Simultaneously

HA HB code	Voltage D-Sub	25-pin round	19-pin M23	Single 12-pin		
24 V DC	B9 / G9	24	16	8	32	
120 V AC*	23	24	16	8	32	
H1 H2 H3	Voltage code	25-pin D-Sub	19-pin round	Single 12-pin M23	Industrial Commu- nication	SAM 3.0
12 V DC	45	13	13	8	N/A	N/A
24 V AC*	42	24	16	8	N/A	N/A
24 V DC	B9	20	16	8	21	4
120 V AC*	23	24	16	8	N/A	N/A

* Not CSA certified for 25-pin, D-Sub option.

19-Pin Round Brad Harrison



19-Pin Round Cable Specifications

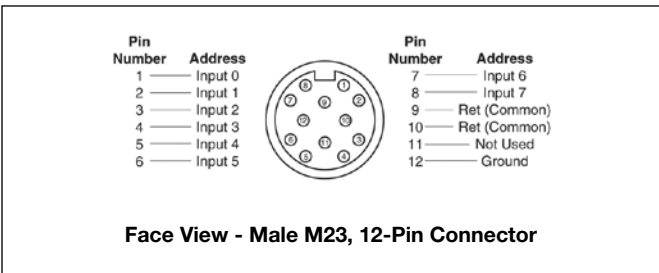
Common Pin "7" is rated for 8 amps. Cable common wire must be greater than total amperage of solenoids on Add-A-Fold assembly.

Example:- 8 station manifold, 16 solenoids,
120VAC - 16 x .039 amps = .63 total amp rating.
NEMA 4 rated with properly assembled NEMA 4 rated cable.

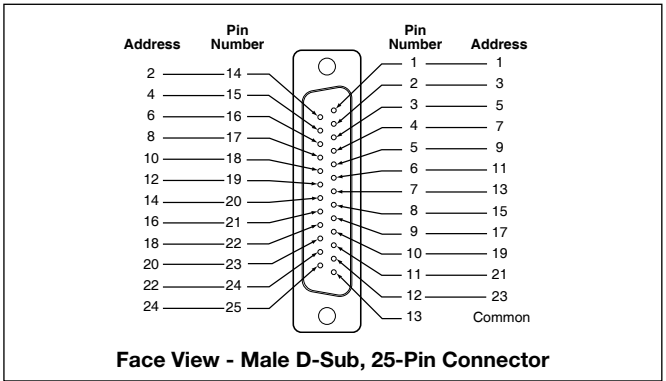
Brad Harrison #333030P80M050 16.40 ft. (Female to Male Cable)

Brad Harrison #333030P80M0100 32.80 ft. (Female to Male Cable)

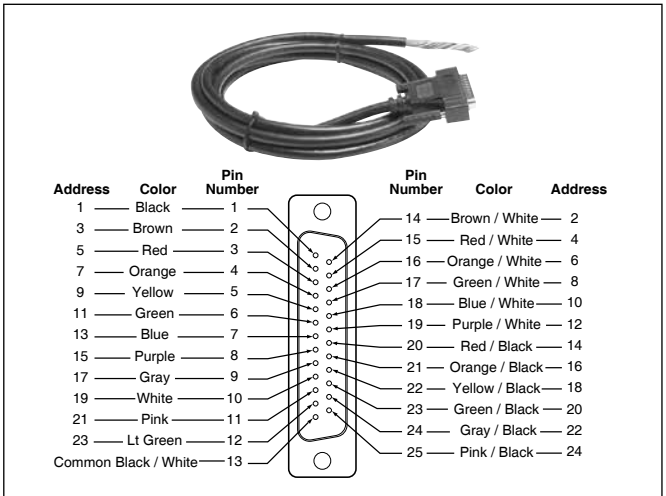
M23, 12-Pin Round Connector (Male)



25-Pin, D-Sub Connector (Male)



25-Pin, D-Sub Cable (Female)



25-Pin, D-Sub Cable Specifications

Common Pin "13" is rated for 3 amps. Common wire rating must be greater than total amperage of all solenoids on a Add-A-Fold assembly.

IP65 rated with properly assembled IP65 rated cable.

M23, 12-Pin Round Connector (Female)

