







DX Global ISO Valves

A complete range of pneumatic ISO valves





Rust and corrosion resistant body

With the valve body in polyamide reinforced fiberglass and the casting in anodised aluminium, the Isomax range presents a comprehensive modern design to suit most industrial environments.

- **ISO 15407-1 Sizes 02 & 01 and ISO 5599-1 Sizes 1, 2 & 3**
- **Ceramic technology for long life operation**
- **From vacuum up to 12 bar applications**
- **Internal or external pilot supply with same valves**
- **M12 on each coil**
- **Common M12**

Ceramic slide valves for maximum operational life. Solenoid or air pilot actuation. Vacuum to 10 bar general applications.

- Size 01 and 02 (26 and 18 mm)
- Ceramic technology for long life operation
- From vacuum up to 10 bar applications
- Internal or external pilot supply with same valves
- Capture solenoid exhaust



Operation information

Working pressure :		-0,9 to 10 bar
Working temperature :		-10 to +60°C
	DX02	**DX01**
Flow (Qmax.) :	630 l/min	1000 l/min
Flow (Qn) :	385 l/min	585 l/min

Ceramic technology

All ISOMAX products use high-tech ceramic switching technology :

- **Excellent reliability :**

  Long life in excess of 100 million operations*.

  Operates with lubricated or non lubricated air.

  Low sensitivity to air quality changes switching without seal.

  Stiction free.

- **High performances :**

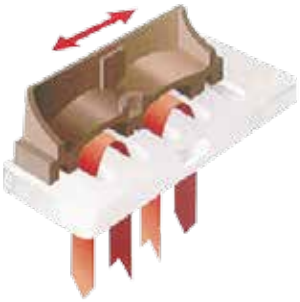
  Slide valve concept allows high flow / size ratio and short response time due to short slide stroke and low friction.



- **Switchable selector**

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

Ceramic plate



- **Size 02 & Size 01**

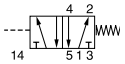
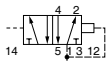
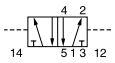
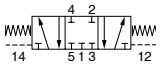
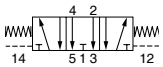
  Solenoid exhaust pilot

- **Stable long lasting performances**

  Low friction switching : minimum wear of the valve member/seal assembly.

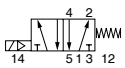
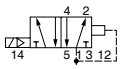
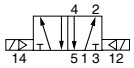
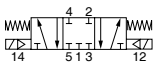
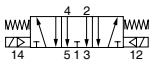
Isomax - ISO 15407-1 - Sizes 02 & 01
Pneumatic remote pilot operated
Without valve spool manual override



Symbol	Description	Size	Weight (g)	Order code
	5/2 Air pilot - Spring return	02 - 18 mm	90	**DX02-421-60**
		01 - 26mm	130	**DX01-421-60**
	5/2 Air pilot - Differential	02 - 18 mm	90	**DX02-451-60**
		01 - 26mm	130	**DX01-451-60**
	5/2 Double air pilot	02 - 18 mm	90	**DX02-406-60**
		01 - 26mm	130	**DX01-406-60**
	5/3 Closed Centre (APB)	02 - 18 mm	90	**DX02-416-60**
		01 - 26mm	130	**DX01-416-60**
	5/3 Vented Center	02 - 18 mm	90	**DX02-411-60**
		01 - 26mm	130	**DX01-411-60**

Isomax - ISO 15407-1 - Sizes 02 & 01
15 mm DIN C / 24 Vdc / 1,2 W solenoid valve operator

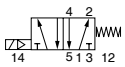
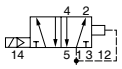
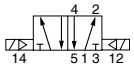
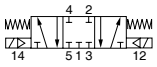
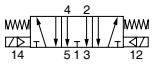


Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	02 - 18 mm	130	**DX02-621-951M**
		01 - 26mm	170	**DX01-621-951M**
	5/2 Single solenoid - Differential	02 - 18 mm	130	**DX02-651-951M**
		01 - 26mm	170	**DX01-651-951M**
	5/2 Double solenoid	02 - 18 mm	130	**DX02-606-951M**
		01 - 26mm	170	**DX01-606-951M**
	5/3 Closed Centre (APB)	02 - 18 mm	130	**DX02-616-951M**
		01 - 26mm	170	**DX01-616-951M**
	5/3 Vented Center	02 - 18 mm	160	**DX02-611-951M**
		01 - 26mm	170	**DX01-611-951M**

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

Isomax - ISO 15407-1 - Sizes 02 & 01
Without 15 mm DIN C solenoid valve operator



Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	02 - 18 mm	130	**DX02-621-60**
		01 - 26mm	170	**DX01-621-60**
	5/2 Single solenoid - Differential	02 - 18 mm	130	**DX02-651-60**
		01 - 26mm	170	**DX01-651-60**
	5/2 Double solenoid	02 - 18 mm	130	**DX02-606-60**
		01 - 26mm	170	**DX01-606-60**
	5/3 Closed Centre (APB)	02 - 18 mm	130	**DX02-616-60**
		01 - 26mm	170	**DX01-616-60**
	5/3 Vented Center	02 - 18 mm	160	**DX02-611-60**
		01 - 26mm	170	**DX01-611-60**

15mm solenoid valve operator, solenoid connectors & cable plug to be ordered separately. See solenoid section

Ceramic slide valves for maximum operational life. Solenoid or air pilot operated with a wide choice of bases and manifolds. Vacuum to 12 bar general applications.

- Size1, 2 and 3
- Ceramic technology for long life operation
- From vacuum up to 12 bar applications
- Internal or external pilot supply with same valves
- M12 on each coil
- Common M12

For ATEX specific products contact Sales Office

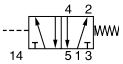
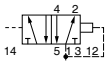
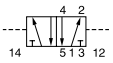
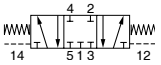
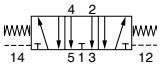
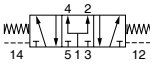


Operation information

Working pressure :	-0,9 to 12 bar		
Working temperature :	-10 to +60°C		
	DX1	**DX2**	**DX3**
Flow (Qmax.) :	1680 l/min	3640 l/min	6420 l/min
Flow (Qn.) :	1150 l/min	2330 l/min	4050 l/min
ATEX approval:	CE Ex II 2 GD c 85°C		

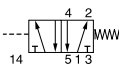
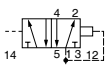
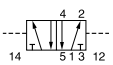
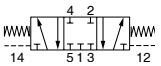
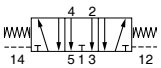
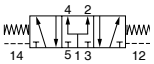
Isomax - ISO 5599-1 - Sizes 1, 2 & 3
Pneumatic remote pilot operated
With direct valve spool manual override



Symbol	Description	Size	Weight (g)	Order code
	5/2 Air pilot - Spring return	1 - 43 mm	350	**DX1-421-70**
		2 - 56 mm	600	**DX2-421-70**
		3 - 71 mm	1100	**DX3-421-70**
	5/2 Air pilot - Differential	1 - 43 mm	350	**DX1-451-70**
		2 - 56 mm	600	**DX2-451-70**
		3 - 71 mm	1100	**DX3-451-70**
	5/2 Double air pilot	1 - 43 mm	350	**DX1-406-70**
		2 - 56 mm	600	**DX2-406-70**
		3 - 71 mm	1100	**DX3-406-70**
	5/3 Closed Center (APB)	1 - 43 mm	350	**DX1-416-70**
		2 - 56 mm	600	**DX2-416-70**
		3 - 71 mm	1100	**DX3-416-70**
	5/3 Vented Center	1 - 43 mm	350	**DX1-411-70**
		2 - 56 mm	600	**DX2-411-70**
		3 - 71 mm	1100	**DX3-411-70**
	5/3 Pressurised Center	1 - 43 mm	350	**DX1-413-70**
		2 - 56 mm	600	**DX2-413-70**

Isomax - ISO 5599-1 - Sizes 1, 2 & 3
Pneumatic remote pilot operated
Without direct valve spool manual override

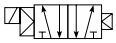
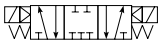
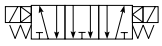
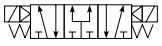


Symbol	Description	Size	Weight (g)	Order code
	5/2 Air pilot - Spring return	1 - 43 mm	350	**DX1-421-60**
		2 - 56 mm	600	**DX2-421-60**
		3 - 71 mm	1100	**DX3-421-60**
	5/2 Air pilot - Differential	1 - 43 mm	350	**DX1-451-60**
		2 - 56 mm	600	**DX2-451-60**
		3 - 71 mm	1100	**DX3-451-60**
	5/2 Double air pilot	1 - 43 mm	350	**DX1-406-60**
		2 - 56 mm	600	**DX2-406-60**
		3 - 71 mm	1100	**DX3-406-60**
	5/3 Closed Center (APB)	1 - 43 mm	350	**DX1-416-60**
		2 - 56 mm	600	**DX2-416-60**
		3 - 71 mm	1100	**DX3-416-60**
	5/3 Vented Center	1 - 43 mm	350	**DX1-411-60**
		2 - 56 mm	600	**DX2-411-60**
		3 - 71 mm	1100	**DX3-411-60**
	5/3 Pressurised Center	1 - 43 mm	350	**DX1-413-60**
		2 - 56 mm	600	**DX2-413-60**

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

With non locking manual override on solenoid valve operator - Without direct valve spool manual override



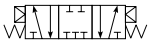
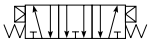
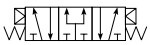
Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	1 - 43 mm	500	**DX1-621-BL49**
		2 - 56 mm	750	**DX2-621-BL49**
		3 - 71 mm	1250	**DX3-621-BL49**
	5/2 Single solenoid - Differential	1 - 43 mm	500	**DX1-651-BL49**
		2 - 56 mm	750	**DX2-651-BL49**
		3 - 71 mm	1250	**DX3-651-BL49**
	5/2 Double solenoid	1 - 43 mm	650	**DX1-606-BL49**
		2 - 56 mm	900	**DX2-606-BL49**
		3 - 71 mm	1400	**DX3-606-BL49**
	5/3 Closed Center (APB)	1 - 43 mm	560	**DX1-616-BL49**
		2 - 56 mm	900	**DX2-616-BL49**
		3 - 71 mm	1400	**DX3-616-BL49**
	5/3 Vented Center	1 - 43 mm	650	**DX1-611-BL49**
		2 - 56 mm	900	**DX2-611-BL49**
		3 - 71 mm	1400	**DX3-611-BL49**
	5/3 Pressurised Center	1 - 43 mm	650	**DX1-613-BL49**
		2 - 56 mm	900	**DX2-613-BL49**

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

Isomax - ISO 5599-1 - Sizes 1, 2 & 3
CNOMO operator without coil

With non locking manual override on solenoid valve operator - Without direct valve spool manual override

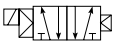
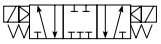
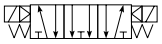
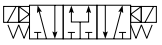


Symbol	Description	Size	Weight (g)	Order code
	5/2 Single solenoid - Spring return	1 - 43 mm	400	**DX1-621-BN**
		2 - 56 mm	650	**DX2-621-BN**
		3 - 71 mm	1150	**DX3-621-BN**
	5/2 Single solenoid - Differential	1 - 43 mm	400	**DX1-651-BN**
		2 - 56 mm	650	**DX2-651-BN**
		3 - 71 mm	1150	**DX3-651-BN**
	5/2 Double solenoid	1 - 43 mm	550	**DX1-606-BN**
		2 - 56 mm	800	**DX2-606-BN**
		3 - 71 mm	1300	**DX3-606-BN**
	5/3 Closed Center (APB)	1 - 43 mm	550	**DX1-616-BN**
		2 - 56 mm	800	**DX2-616-BN**
		3 - 71 mm	1300	**DX3-616-BN**
	5/3 Vented Center	1 - 43 mm	550	**DX1-611-BN**
		2 - 56 mm	800	**DX2-611-BN**
		3 - 71 mm	1300	**DX3-611-BN**
	5/3 Pressurised Center	1 - 43 mm	550	**DX1-613-BN**
		2 - 56 mm	800	**DX2-613-BN**

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

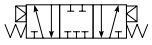
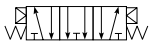
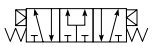
Isomax - ISO 5599-1 - Sizes 1, 2 & 3
Valve alone without operator
With direct valve spool manual override



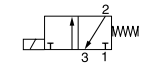
Symbol	Description	Size	Weight (g)	Order code
	5/2 Air pilot - Spring return	1 - 43 mm	350	**DX1-621-70**
		2 - 56 mm	600	**DX2-621-70**
		3 - 71 mm	1100	**DX3-621-70**
	5/2 Air pilot - Differential	1 - 43 mm	350	**DX1-651-70**
		2 - 56 mm	600	**DX2-651-70**
		3 - 71 mm	1100	**DX3-651-70**
	5/2 Double air pilot	1 - 43 mm	350	**DX1-606-70**
		2 - 56 mm	600	**DX2-606-70**
		3 - 71 mm	1100	**DX3-606-70**
	5/3 Closed Center (APB)	1 - 43 mm	350	**DX1-616-70**
		2 - 56 mm	600	**DX2-616-70**
		3 - 71 mm	1100	**DX3-616-70**
	5/3 Vented Center	1 - 43 mm	350	**DX1-611-70**
		2 - 56 mm	600	**DX2-611-70**
		3 - 71 mm	1100	**DX3-611-70**
	5/3 Pressurised Center	1 - 43 mm	350	**DX1-613-70**
		2 - 56 mm	600	**DX2-613-70**

Isomax - ISO 5599-1 - Sizes 1, 2 & 3
Valve alone without operator
Without direct valve spool manual override



Symbol	Description	Size	Weight (g)	Order code
	5/2 Air pilot - Spring return	1 - 43 mm	350	**DX1-621-60**
		2 - 56 mm	600	**DX2-621-60**
		3 - 71 mm	1100	**DX3-621-60**
	5/2 Air pilot - Differential	1 - 43 mm	350	**DX1-621-60**
		2 - 56 mm	600	**DX2-621-60**
		3 - 71 mm	1100	**DX3-621-60**
	5/2 Double air pilot	1 - 43 mm	350	**DX1-606-60**
		2 - 56 mm	600	**DX2-606-60**
		3 - 71 mm	1100	**DX3-606-60**
	5/3 Closed Center (APB)	1 - 43 mm	350	**DX1-616-60**
		2 - 56 mm	600	**DX2-616-60**
		3 - 71 mm	1100	**DX3-616-60**
	5/3 Vented Center	1 - 43 mm	350	**DX1-611-60**
		2 - 56 mm	600	**DX2-611-60**
		3 - 71 mm	1100	**DX3-611-60**
	5/3 Pressurised Center	1 - 43 mm	350	**DX1-613-60**
		2 - 56 mm	600	**DX2-613-60**

15 mm DIN Form C (8mm spacing) pilot solenoid valve - Standard version



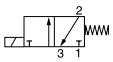
Pins/Air Opposite (Pins UP)



			Manual Overrides	Flush (Not Extended)		Extended	
							
			Without Manual Override	Blue Override, non locking	Yellow Override, Locking	Blue Override, non locking	Yellow Override, Locking
	Voltage	W (g)	**Order code**	**Order code**	**Order code**	**Order code**	**Order code**
	12 Vdc	38	**P2E-KV32B0**	**P2E-KV32B1**	**P2E-KV32B2**	**P2E-KV32B3**	**P2E-KV32B4**
	24 Vdc	38	**P2E-KV32C0**	**P2E-KV32C1**	**P2E-KV32C2**	**P2E-KV32C3**	**P2E-KV32C4**
	48 Vdc	38	**P2E-KV32D0**	**P2E-KV32D1**	**P2E-KV32D2**	**P2E-KV32D3**	**P2E-KV32D4**
	24 Vac 50Hz	38	**P2E-KV31C0**	**P2E-KV31C1**	**P2E-KV31C2**	**P2E-KV31C3**	**P2E-KV31C4**
	48 Vac 50/60Hz	38	**P2E-KV34D0**	**P2E-KV34D1**	**P2E-KV34D2**	**P2E-KV34D3**	**P2E-KV34D4**
	115 Vac 50Hz 120 Vac 60 Hz	38	**P2E-KV31F0**	**P2E-KV31F1**	**P2E-KV31F2**	**P2E-KV31F3**	**P2E-KV31F4**
	230 Vac 50Hz 240 Vac 60 Hz	38	**P2E-KV31J0**	**P2E-KV31J1**	**P2E-KV31J2**	**P2E-KV31J3**	**P2E-KV31J4**

Mounting screws included with the DX valve body

15mm DIN Form C (8mm spacing) pilot solenoid valve - Mobile version

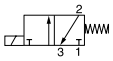




		Without Manual Override	Not Extended Blue Override non locking flush
Voltage	W (g)	**Order code**	**Order code**
12 Vdc	38	**P2E-MV35B0**	**P2E-MV35B1**
24 Vdc	38	**P2E-MV35C0**	**P2E-MV35C1**
37,5 Vdc	38	**P2E-MV35W0**	**P2E-MV35W1**
48 Vdc	38	**P2E-MV35D0**	**P2E-MV35D1**
72 Vdc	38	**P2E-MV35T0**	**P2E-MV35T1**
78 Vdc	38	**P2E-MV35Y0**	**P2E-MV35Y1**
96 Vdc	38	**P2E-MV35V0**	**P2E-MV35V1**
110 Vdc	38	**P2E-MV35E0**	**P2E-MV35E1**

Mounting screws included with the DX valve body

15mm DIN Form C (8mm spacing) pilot solenoid valve - Food Industry version





			Not Extended		Extended	
		Without Manual Override	Blue Override non locking flush	Yellow Override Locking flush	Blue Override non locking flush	Yellow Override Locking flush
Voltage	W (g)	**Order code**	**Order code**	**Order code**	**Order code**	**Order code**
24 Vdc	38	**P2E-QV32C0**	**P2E-QV32C1**	**P2E-QV32C2**	**P2E-QV32C3**	**P2E-QV32C4**
48 Vdc	38	**P2E-QV32D0**	**P2E-QV32D1**	**P2E-QV32D2**		
24 Vac 50 Hz	38	**P2E-QV31C0**	**P2E-QV31C1**	**P2E-QV31C2**	**P2E-QV31C3**	**P2E-QV31C4**
48 Vac 50/60Hz	38	**P2E-QV34D0**	**P2E-QV34D1**	**P2E-QV34D2**		
115 Vac 50Hz/ 120 Vac 60Hz	38	**P2E-QV31F0**	**P2E-QV31F1**	**P2E-QV31F2**	**P2E-QV31F3**	**P2E-QV31F4**
230 Vac 50Hz 240 Vac 60Hz/	38	**P2E-QV31J0**	**P2E-QV31J1**	**P2E-QV31J2**	**P2E-QV31J3**	**P2E-QV31J4**

Mounting screws included with the DX valve body

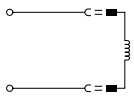
Solenoid Connectors 15 mm DIN Form C / ISO15217



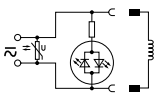


Connector schematic

No LED version



LED version



Description	Characteristic	Visualisation	Cable length	W (g)	Order code
With large headed screw suitable for mounting in inaccessible or recess position	Standard IP65	No LED	No cable	20	**P8C-C**
		24 Vdc LED	No cable	20	**P8C-C26C**
		110 Vac LED	No cable	20	**P8C-C21E**
With standard screw	Standard IP65	No LED	No cable	15	**P8C-D**
			2 meters	115	**P8L-C2**
			5 meters	240	**P8L-C5**
		24 Vdc/Vac LED	No cable	15	**P8C-D26C**
			2 meters	170	**P8L-C226C**
			5 meters	240	**P8L-C526C**
			10 meters	440	**P8L-CA26C**
		110 Vac LED	No cable	115	**P8C-D21E**
			2 meters	115	**P8L-C221E**
			5 meters	230	**P8L-C521E**

In accordance with the EU Machine Directive, EN 983, solenoid valves with manual override should have spring-return operating arms for safety.

3/2 N.C. CNOMO Operator - Without Coil

	Description	Manual override	W (g)	Order code
	Solenoid operator for 30 x 30 DIN Form A Coil	No manual override	65	**P2FP23N4A**
	Dedicated to Low Power 2,5W / 3VA Coil	Pulse non locking	65	**P2FP23N4B**
		Locking	65	**P2FP23N4C**
	Solenoid operator for 30 x 30 DIN Form A Coil	No manual override	65	**EV3000100**
	Dedicated to High Power 4,5W / 5VA Coil	Pulse non locking	65	**EV3001100**
		Locking	65	**EV3003100**
	Solenoid operator for 22 x 30 DIN Form B Coil	No manual override	65	**1EV0*310**
	Dedicated to Low Power 2,5W / 4,5VA Coil	Pulse non locking	65	**1EV1*310**
		Locking	65	**1EV3*310**

30 x 30 DIN Form A and 22 x 30 DIN Form B Coils for CNOMO Operator

		30 x 30 DIN Form A			22 x 30 DIN Form B	
			Low Power (to be used with P2FP23N4x)	High Power (to be used with EV300x100)		Low Power (to be used with 1EVx*310)
	Voltage	W (g)	**Order code**	**Order code**	W (g)	**Order code**
	12 Vdc	105	**P2FCA445**	**P2FCA545**	93	**P2FCB345**
	24 Vdc	105	**P2FCA449**	**P2FCA549**	93	**P2FCB349**
	48 Vdc	105	**P2FCA451**	**P2FCA551**	93	**P2FCB351**
	12 Vac 50/60 Hz	105	**P2FCA440**	**P2FCA540**	93	**P2FCB340**
	24 Vac 50/60 Hz	105	**P2FCA445**	**P2FCA545**	93	**P2FCB345**
	48 Vac 50/60 Hz	105	**P2FCA449**	**P2FCA549**	93	**P2FCB349**
	110 Vac 50 Hz / 120 Vac 60 Hz	105	**P2FCA453**	**P2FCA553**	93	**P2FCB353**
	230 Vac 50 Hz / 240 Vac 60 Hz	105	**P2FCA457**	**P2FCA557**	93	**P2FCB357**

Spare Solenoid Nuts

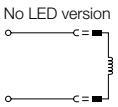
	Description	Usage	W (g)	Order code
	Plastic knurled nut	For valve requiring Captured exhaust	5	**P2FNPA**
	Diffuser plastic nut	For valve requiring Vented exhaust	5	**P2FNDA**

30 x 30 DIN Form A and 22 x 30 DIN Form B Solenoid Connectors

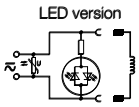
	Description	Characteristic	Visualisation	Cable length	W (g)	Order code
	30 x 30 DIN Form A connector	Standard IP65	No LED	No cable	15	**3EV290V10**
	With standard screw		24 Vdc/Vac LED	No cable	30	**3EV290V20-24**
				5 meters	355	**3EV290V20-24L5**
			110 Vac LED	No cable	30	**3EV290V20-110**
				5 meters	470	**3EV290V20-110L5**
			230 Vac LED	No cable	30	**3EV290V20-230**
				5 meters	350	**3EV290V20-230L5**
	22 x 30 DIN Form B connector	Standard IP65	No LED	No cable	15	**3EV10V10**
	With standard screw		24 Vdc/Vac LED	No cable	20	**3EV10V20-24**
				5 meters	350	**3EV10V20-24L5**
			110 Vac LED	No cable	25	**3EV10V20-110**
				5 meters	355	**3EV10V20-110L5**
			230 Vac LED	No cable	25	**3EV10V20-230**
				5 meters	360	**3EV10V20-230L5**

Connector schematic

No LED version



LED version



M12 Adaptor for 30 x 30 DIN Form A Coil

	Description	Characteristics	Visualisation	Cable	W (g)	Order code
	M12 Connector for one coil	24 V AC/DC - 4A	LED	No cable	30	**P8C-A626C**
	M12 Connector for two coils	24 V AC/DC - 4A	LED	No cable	70	**P8C-AM26C**

Note: Solenoid pilot operators are fitted to the ISO valve range.
Order the above part numbers for spares.
The operators are supplied with mounting screws and interface 'O' rings.
Coils and connectors must be ordered separately.