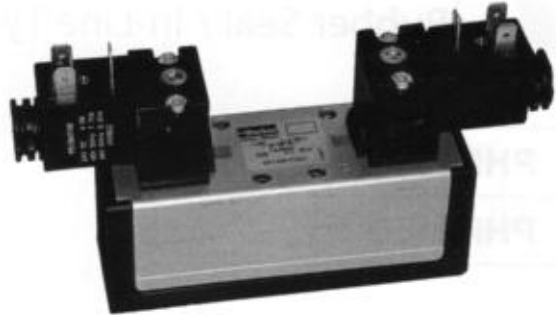


## ISO 5599-1 - ISOMAX

Ceramic slide valves for maximum operational life. Solenoid or air pilot operated with a wide choice of bases and manifolds. Vacuum to 1 2 bar general applications.



- ISO Size 1, 2 and 3
- Ceramic technology for long life operation
- From vacuum up to 1 2 bar applications
- Simple conversion for external pilot supply

Operation information			
Working pressure :	-0,9 to 1 2 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	233 0 l/min	4050 l/min
ATEX approval:	CE Ex II 2 GD c 8 5°C		
For ATEX specific products contact Parker			

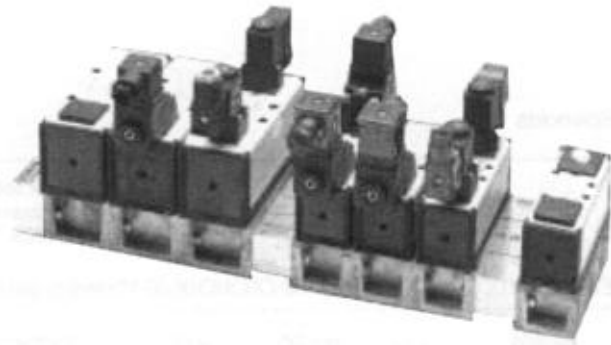
### Solenoid operated ISO valve fitted with CNOMO solenoid(s)

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
<b>5/2 Valves</b>							
	1 - 43mm	Electrical signal	Spring	3,9/2,5	40/55	0.5	DX1-621-CP**
	2 - 56mm	Electrical signal	Spring	3,6/2,4	60/105	0.75	DX2-621-CP**
	3 - 71mm	Electrical signal	Spring	3,6/2,3	85/160	1.25	DX3-621-CP**
	1 - 43mm	Electrical signal	Electrical signal	1,0/1,0	25/25	0.65	DX1-606-CP**
	2 - 56mm	Electrical signal	Electrical signal	1,0/1,0	30/30	0.9	DX2-606-CP**
	3 - 71mm	Electrical signal	Electrical signal	1,0/1,0	40/40	1.4	DX3-606-CP**
<b>5/3 Valves</b>							
	1 - 43mm	Electrical signal	Electrical signal	2,6	30/95	0.65	DX1-616-CP**
	2 - 56mm	Closed center	Self centering	2,1	40/190	0.9	DX2-616-CP**
	3 - 71mm			2,1	55/330	1.4	DX3-616-CP**
	1 - 43mm	Electrical signal	Electrical signal	2,8	25/70	0.65	DX1-611-CP**
	2 - 56mm	Vented center	Self centering	2,2	40/140	0.9	DX2-611-CP**
	3 - 71mm			2,1	60/270	1.4	DX3-611-CP**
	1 - 43mm	Electrical signal	Electrical signal	2,4	25/65	0.65	DX1-613-CP**
	2 - 56mm	Press. center	Self centering	2,1	40/150	0.9	DX2-613-CP**

Note: \*\* Please refer to order chart for complete order code. Solenoid valves are supplied as kits of components. Order sub-bases seperately.

## ISOMAX

## ISO 5599-1 valves sizes 1 to 3



### General characteristics :

Standard subbase :	ISO 5599-1 and NFE 49-080
Permissible fluid :	Air or inert gas, filtered 40 (classe 5 according to ISO 8573-1), lubricated or non-lubricated
Piloting pressure :	2 to 12 bar (2 to 10 bar with 15 mm solenoid)
Operating pressure :	-0,9 to 12 bar (for pressure under 2 bar, external pilot supply has to be connected)
Supply from exhaust :	Possible
Flow (Qmax) :	DX1 = 1680 NI/mn - DX2 = 4320 NI/mn - DX3 = 6540 NI/mn
Working temperatures :	-10 to + 60 C (dry air)
Storage temperatures :	-20 to + 80 C (-20 to + 70 C with 15 mm solenoids)
Mechanical life :	> 100 millions operations (dry air filtered 40 , 2 Hz, 6 bar, 20 C)
Actuation type :	Pneumatically or electrically with CNOMO 06-05-10 solenoids 30 mm or 22 mm or with 15 mm solenoid valve interface CNOMO E06.36120N.

### Material specification :

Valve member - seat :	Self lubricating acetal - ceramic
Body :	Polyamide reinforced fibreglass
Casing - End plates :	Anodised aluminium - Painted zinc plated steel
Valve plate :	Zamak
Seals :	Nitrile
Springs :	Stainless steel
Screws :	Zinc plated steel
Function selector : Top cover - Seal :	Polyamide reinforced fibreglass - Polyester





### Ordering key

Execution	Size	Pilot	Manual override	Voltage	Connector																																																					
Standard D Anti-corrosion	1 Size 1 (ISO 5599) 2 Size 2 (ISO 5599) 3 Size 3 (ISO 5599)	4 Pneumatic 6 Electro-pneumatic	0 Without any 1 Flush non locking 3 Flush locking	B 12 V AC C 24 V AC D 48 V AC J 110 V AC A 230 V AC L 12 V DC M 24 V DC N 48 V DC	Without any C Standard connector S Connector with LED and protection S3 Connector with LED and protection - 3 m cable S5 Connector with LED and protection - 5 m cable																																																					
<div style="display: flex; justify-content: space-around; align-items: center;"> <span>DX</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>1</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>6</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>21</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>76</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>1</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>M</span> <span style="border: 1px solid black; padding: 2px 10px;"> </span> <span>S</span> </div>																																																										
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## ISOMAX

## ISO 5599-1 valves sizes 1 to 3

### Solenoids

	Voltage	Weight kg	Order code Without manual override	Order code Manual override non locking	Order code Manual override locking
<b>EV30-4.5 W DC, 5 VA AC solenoids with CNOMO 06-05-10 interface and for cable plug DIN 43650 form A (supplied without cable plug)</b>					
	24 V DC	0,17	EV30M0100	EV30M1100	EV30M3100
	24 V AC	0,17	EV30C0100	EV30C1100	EV30C3100
	110 V AC	0,17	EV30J0100	EV30J1100	EV30J3100
	230 V DC	0,17	EV30A0100	EV30A1100	EV30A3100
<b>EV30-2.5 W DC, 3 VA AC solenoids with CNOMO 06-05-10 interface and for cable plug DIN 43650 form A (supplied without cable plug)</b>					
	24 V DC	0,17	EV30M0200	EV30M1200	EV30M3200
	24 V AC	0,17	EV30C0200	EV30C1200	EV30C3200
	110 V AC	0,17	EV30J0200	EV30J1200	EV30J3200
	230 V AC	0,17	EV30A0200	EV30A1200	EV30A3200
<b>EV310-2.5 W DC, 4.5 VA AC solenoids with CNOMO 06-05-10 interface and for cable plug DIN 43650 form B (supplied without cable plug)</b>					
	24 V DC	0,17	EV0M310	1EV1M310	EV3M310
	24 V AC	0,17	EV0C310	1EV1C310	EV3C310
	110 V AC	0,17	EV0J310	1EV1J310	EV3J310
	230 V AC	0,17	EV0A310	1EV1A310	EV3A310
<b>15 mm High-flow solenoids 1.8 W DC, 2.4 VA AC for cable plug DIN 43650 form C (supplied without cable plug)</b>					
	24 V DC	0,17	P2E-HV32C0	P2E-HV32C1	P2E-HV32C2
	24 V AC	0,17	P2E-HV31C0	P2E-HV31C1	P2E-HV31C2
	48 V DC	0,17	P2E-HV32D0	P2E-HV32D1	P2E-HV32D2
	115/120 V AC	0,17	P2E-HV31F0	P2E-HV31F1	P2E-HV31F2

### Cable plugs

Description	Order code DIN 43650 form A (for EV30)	Order code DIN 43650 form B (for EV310)	Order code DIN 43650 form C (for 15 mm solenoid)	
	- Standard (without flying lead)	3EV290V10	3EV10V10	P8C-D
	- With LED and protection 24 V AC/DC	3EV290V20-24	3EV10V20-24	P8C-D26C
	- With LED and protection 110 V AC	3EV290V20-110	3EV10V20-110	P8C-D21E
	- With LED and protection 230 V AC	3EV290V20-230	3EV10V20-230	-
	- With 5 m flying lead cable LED and protection 24 V AC/DC	3EV290V20-24L5	3EV10V20-24L5	P8L-C526C
	- With 5 m cable - LED and protection 110 V AC	3EV290V20-110L5	3EV10V20-110L5	P8L-C521E
	- With 5 m cable - LED and protection 230 V AC	3EV290V20-230L5	3EV10V20-230L5	-















## Isomax - ISO 5599 - Size 1 / 2 / 3 - CNOMO

### Order chart

DX    1    -    6    51    -    B    L    49

Size	
1	Size 1 (ISO 5599)
2	Size 2 (ISO 5599)
3	Size 3 (ISO 5599)

Pilot	
4	Pneumatic
6	Electro-Pneumatic

Valve type function		
Internal pilot supply		
06		5/2 double solenoid
56		5/2 double solenoid, 14 prioritised
21		5/2 single solenoid, spring return
51		5/2 single solenoid, differential return
11		5/3 double solenoid vented centre
16		5/3 double solenoid closed centre
13		5/3 double solenoid pressurised center
External pilot 14 supply		
05		5/2 double solenoid
59		5/2 double solenoid, 14 prioritised
23		5/2 single solenoid, spring return
54		5/2 single solenoid, differential return
09		5/3 double solenoid vented centre
19		5/3 double solenoid closed centre
14		5/3 double solenoid pressurised center

Voltage		
	DC	AC
45	12	
49	24	
40		12
42		24
53		110
57		230
Blank	Valve less coil	


Solenoid enclosure	
2*	Central M12 connection
6*	M12 on each coil
L	3 pin 30mm DIN 43650A
P	3 pin Industrial form B
N	Valve less coil

\*19 for M12 coil

Overrides	
60	Remote pilot / without solenoid
70	Remote pilot / without solenoid *
A	No override
B	Non-locking (single sol.) Flush - Metal
C	Locking (double sol.) Flush - Plastic

\* Fitted with direct spool override.

Shaded part numbers are standard



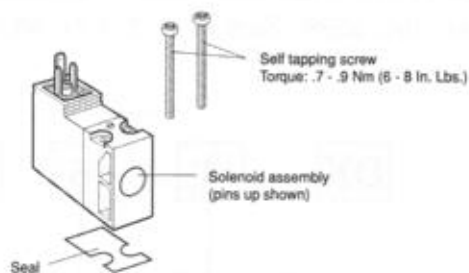
Isomax

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Global ISO Series Valves



## Solenoid Operators - 15mm

Electrical connection EN175301-803 C/ISO15217 (Ex DIN 43650C)



### Solenoids 15 mm NC, standard

(Note! Mounting screws included in basic valve)

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking ush	Weight Kg	Order code Override, yellow, locking ush
12 VDC	0,038	P2E-KV32B0	0,038	P2E-KV32B1	0,038	P2E-KV32B2
24 VDC	0,038	P2E-KV32C0	0,038	P2E-KV32C1	0,038	P2E-KV32C2
48 VDC	0,038	P2E-KV32D0	0,038	P2E-KV32D1	0,038	P2E-KV32D2
24 VAC 50Hz	0,038	P2E-KV31C0	0,038	P2E-KV31C1	0,038	P2E-KV31C2
48 VAC 50/60Hz	0,038	P2E-KV34D0	0,038	P2E-KV34D1	0,038	P2E-KV34D2
115 VAC 50Hz/ 120 VAC 60Hz	0,038	P2E-KV31F0	0,038	P2E-KV31F1	0,038	P2E-KV31F2
230 VAC 50Hz/ 240 VAC 60Hz	0,038	P2E-KV31J0	0,038	P2E-KV31J1	0,038	P2E-KV31J2



Voltage	Weight Kg	Order code Override extended, blue, non locking ush	Weight Kg	Order code Override extended, yellow, locking ush
24 VDC	0,038	P2E-KV32C3	0,038	P2E-KV32C4
24 VAC 50Hz	0,038	P2E-KV31C3	0,038	P2E-KV31C4

### Solenoids 15 mm NC, mobile

(Note! Mounting screws included in basic valve)

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking ush
12 VDC	0,038	P2E-MV35B0	0,038	P2E-MV35B1
24 VDC	0,038	P2E-MV35C0	0,038	P2E-MV35C1
37,5 VDC	0,038	P2E-MV35W0	0,038	P2E-MV35W1
48 VDC	0,038	P2E-MV35D0	0,038	P2E-MV35D1
72 VDC	0,038	P2E-MV35T0	0,038	P2E-MV35T1
78 VDC	0,038	P2E-MV35Y0	0,038	P2E-MV35Y1
96 VDC	0,038	P2E-MV35V0	0,038	P2E-MV35V1
110 VDC	0,038	P2E-MV35E0	0,038	P2E-MV35E1



### Solenoids 15 mm NC, food industry version

(Note! Mounting screws included in basic valve)

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking ush	Weight Kg	Order code Override, yellow, locking ush
24 VDC	0,038	P2E-QV32C0	0,038	P2E-QV32C1	0,038	P2E-QV32C2
48 VDC	0,038	P2E-QV32D0	0,038	P2E-QV32D1	0,038	P2E-QV32D2
24 VAC 50Hz	0,038	P2E-QV31C0	0,038	P2E-QV31C1	0,038	P2E-QV31C2
48 VAC 50/60Hz	0,038	P2E-QV34D0	0,038	P2E-QV34D1	0,038	P2E-QV34D2
115 V 50Hz/ 120 V 60Hz	0,038	P2E-QV31F0	0,038	P2E-QV31F1	0,038	P2E-QV31F2
230 VAC 50Hz/ 240 VAC 60Hz	0,038	P2E-QV31J0	0,038	P2E-QV31J1	0,038	P2E-QV31J2



Voltage	Weight Kg	Order code Override extended, blue, non locking ush	Weight Kg	Order code Override extended, yellow, locking ush
24 VDC	0,038	P2E-QV32C3	0,038	P2E-QV32C4
24 VAC 50Hz	0,038	P2E-QV31C3	0,038	P2E-QV31C4
115 VAC 50 Hz	0,038	P2E-QV31F3	0,038	P2E-QV31F4
230 VAC 50 Hz	0,038	P2E-QV31J3	0,038	P2E-QV31J4



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

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Global ISO Series Valves

## Solenoid coils with Din A or Industrial connection

Voltage	Order code Din A Standard 30 x 30	Weight (Kg)	Order code Din A Mobile 30 x 30	Weight (Kg)	Order code Industrial standard 22 x 30	Weight (Kg)
<b>Direct current</b>						
12V DC	P2FCA445	0.105	P2FCA447	0.105	P2FCB445	0.093
24V DC	P2FCA449	0.105	P2FCA448	0.105	P2FCB449	0.093
48V DC	P2FCA453*	0.105	P2FCA474	0.105	P2FCB451	0.093
72V DC			P2FCA470	0.105		
96V DC			P2FCA471	0.105		
110V DC			P2FCA472	0.105		
<b>Alternative current</b>						
12V 50/60Hz	P2FCA440	0.105			P2FCB440	0.093
24V 50/60Hz	P2FCA442	0.105			P2FCB442	0.093
48V 50/60Hz	P2FCA469#	0.105				
110V 50Hz, 120V 60Hz	P2FCA453	0.105			P2FCB453	0.093
230V 50Hz, 230V 60Hz	P2FCA457	0.105			P2FCB457	0.093

\* P2FCA453 is compatible with 110 V AC and 48 V DC

# P2FCA469 is 24 V DC 6.8W or 48 V 50Hz 9.9 VA

## Solenoid coils with M12 connection

Voltage	Order code 30 x 30	Weight (Kg)	Order code 22 x 30	Weight (Kg)
<b>Direct current</b>				
24V DC	P2FC6419	0.065	P2FC7419	0.065

## Spare Solenoid Nuts

Valves requiring captured exhaust should be fitted with plastic knurled nut

Order code

P2FNP

Valves with vented exhaust are fitted with diffuser plastic nut

Order Code

P2FND

## Spare Solenoid Operators

### Solenoid pilot operator CNOMO NC




Description	Order code No manual override	Weight (Kg)	Order code Non-lock manual override	Weight (Kg)	Order code Locking manual override	Weight (Kg)
Standard duty	P2FP23N4A	0.065	P2FP23N4B	0.065	P2FP23N4C	0.065
Mobile metal	P2FP43M4A	0.1				

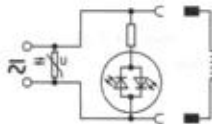
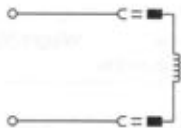
#### Note.

Solenoid pilot operators are fitted to the Viking 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.

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Global ISO Series Valves

## Solenoid Connectors / Cable Plugs EN175301-803

	Description	Order code 15mm Form C/ISO15217	Order code 22mm Industrial Form B	Order code 30mm Form A/ISO4400
With large headed screw suitable for mounting in inaccessible or recess position 	Standard IP65	P8C-C		
	24V DC LED and protection IP65	P8C-C26C		
	110V AC LED and protection IP65	P8C-C21E		
With standard screw 	Standard IP65 without ying lead	P8C-D	3EV10V10	3EV290V10
	With LED and protection 24V AC/DC	P8C-D26C	3EV10V20-24	3EV290V20-24
	With LED and protection 110V AC	P8C-D21E	3EV10V20-110	3EV290V20-110
	With LED and protection 230V AC		3EV10V20-230	3EV290V20-230
With cable 	Standard with 2m cable IP65	P8L-C2		
	Standard with 5m cable IP65	P8L-C5		
	24V AC/DC, 2m cable LED and protection IP65	P8L-C226C		
	24V AC/DC, 5m cable LED and protection IP65	P8L-C526C	3EV10V20-24L5	3EV290V20-24L5
	24V AC/DC, 10m cable LED and protection IP65	P8L-CA26C		
	110V AC/DC, 2m cable LED and protection IP65	P8L-C221E		
	110V AC/DC, 5m cable LED and protection IP65	P8L-C521E	3EV10V20-110L5	3EV290V20-110L5
230V AC, 5m cable LED and protection IP65		3EV10V20-230L5	3EV290V20-230L5	



P8C-C	P8C-D26C	P8L-C226C
P8C-D	P8C-D21E	P8L-C526C
P8L-C2	P8C-C26C	P8L-CA26C
P8L-C5	P8C-C21E	P8L-C221E
3EV10V10		P8L-C521E
	3EV10V20-24	3EV10V20-24L5
	3EV10V20-110	3EV10V20-110L5
	3EV10V20-230	3EV10V20-230L5