

Order key, solenoid operators (15mm)

<b>P</b>	<b>2</b>	<b>E</b>	<b>-</b>	<b>Q</b>	<b>V</b>	<b>3</b>	<b>2</b>	<b>C</b>	<b>3</b>
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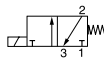
Valve family	
<b>P2E</b>	Solenoid operator

Subfamily	
Solenoid operator, 15 mm wide Electric connection acc. to ISO 15217 Form C EI/supply connection on opposite side	
<b>K</b>	Standard version
<b>M</b>	Mobile version
<b>Q</b>	Food industry version

Type of current	
<b>1</b>	AC 50 Hz
<b>2</b>	DC
<b>4</b>	AC 50/60 Hz
<b>5</b>	Mobile and wide band only


Valvetype/Function	
<b>3</b>	 3/2 valve, normally closed (NC)

Voltage	
<b>B</b>	12 V
<b>C</b>	24 V
<b>D</b>	48 V
<b>F</b>	115 V*
<b>J</b>	230 V*
<b>W</b>	37,5 V**
<b>T</b>	72 V**
<b>Y</b>	78 V**
<b>V</b>	96 V**
<b>E</b>	110 V**

Overrides	
<b>0</b>	Without
<b>1</b>	Non locking (blue)
<b>2</b>	Locking (yellow)
<b>3</b>	Extended non locking (blue)
<b>4</b>	Extended locking (yellow)

\* For standard and food type only  
\*\* For mobile "M" version only

Technical data

	NC, Standard	NC, Food <sup>1)</sup>	NC, Mobile <sup>2)</sup>
Working pressure	0 to 10 bar	0 to 10 bar	0 to 10 bar
Working temperature	-15 °C to +60 °C	-15 °C to +60 °C	-40 °C to +70 °C
Orifice	1,0 mm	1,0 mm	1,0 mm
Flow Qmax	33 NI/min	33 NI/min	22 NI/min
Power, hold	DC 1,2 W / AC 1,6 VA *	DC 1,2 W / AC 1,6 VA *	DC 1,4 W
Power, surge	DC 1,2 W / AC 3,5 VA *	DC 1,2 W / AC 3,5 VA *	DC 1,4 W
Connection time	100%	100%	100%
Voltage tolerance	+10%/−15%	+10%/−15%	+25%/−30%
Electric connection:	Form C/ISO15217		
Port pattern:	To future CNOMO standard		
Protection:	IP 65		
Approval:	Some valves are UL 429 recognised and marked with the following symbol 		
Working media:	All neutral media, such as compressed air, water, hydraulic oil and many gases.		
1) Design:	Completely smooth exterior, suitable for food industry.		
2) Mobile standard	According to European standard EN 50 155.		

\* Power , hold for 230VAC 2.4VA  
Power, surge for 230VAC 5.5VA

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavourable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All cable plugs with a yellow LED also incorporate such protection.

Service life

With compressed air at 6 bar, 20 °C and complying with the requirements for compressed air quality as set out in ISO8573-1 norm (class 4 for dry and class 5 for filtered air), the valves should have a life of at least 50 million cycles.

Materials

Operator

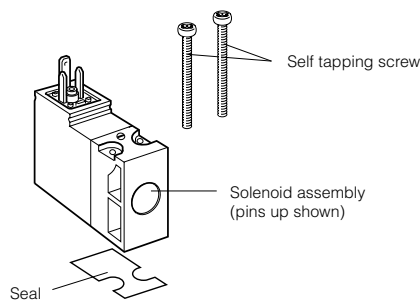
Body, coil casing	Thermoplastic
Internal metal parts	Steel
Screws	Stainless steel
Bottom plug	Thermoplastic
Sealing materials	FPM (Viton™) and nitrile rubber

Cable head

Sheath	Thermoplastic
Retaining screw	Stainless steel, zinc-plated steel

15mm Solenoid Operators

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



Solenoids 15 mm NC, standard

	Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code Override, yellow, locking flush
	12 VDC	0,038	<b>P2E-KV32B0</b>	0,038	<b>P2E-KV32B1</b>	0,038	<b>P2E-KV32B2</b>
	24 VDC	0,038	<b>P2E-KV32C0</b>	0,038	<b>P2E-KV32C1</b>	0,038	<b>P2E-KV32C2</b>
	48 VDC	0,038	<b>P2E-KV32D0</b>	0,038	<b>P2E-KV32D1</b>	0,038	<b>P2E-KV32D2</b>
	24 VAC 50Hz	0,038	<b>P2E-KV31C0</b>	0,038	<b>P2E-KV31C1</b>	0,038	<b>P2E-KV31C2</b>
	48 VAC 50/60Hz	0,038	<b>P2E-KV34D0</b>	0,038	<b>P2E-KV34D1</b>	0,038	<b>P2E-KV34D2</b>
	115 VAC 50Hz/ 120 VAC 60Hz	0,038	<b>P2E-KV31F0</b>	0,038	<b>P2E-KV31F1</b>	0,038	<b>P2E-KV31F2</b>
	230 VAC 50Hz/ 240 VAC 60Hz	0,038	<b>P2E-KV31J0</b>	0,038	<b>P2E-KV31J1</b>	0,038	<b>P2E-KV31J2</b>
	Voltage	Weight Kg	Order code Override extended, non locking flush	Weight Kg	Order code Override extended, locking flush		
	24 VDC	0,038	<b>P2E-KV32C3</b>	0,038	<b>P2E-KV32C4</b>		
	24 VAC 50Hz	0,038	<b>P2E-KV31C3</b>	0,038	<b>P2E-KV31C4</b>		

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 flush
	12 VDC	0,038	<b>P2E-MV35B0</b>	0,038	<b>P2E-MV35B1</b>
	24 VDC	0,038	<b>P2E-MV35C0</b>	0,038	<b>P2E-MV35C1</b>
	37,5 VDC	0,038	<b>P2E-MV35W0</b>	0,038	<b>P2E-MV35W1</b>
	48 VDC	0,038	<b>P2E-MV35D0</b>	0,038	<b>P2E-MV35D1</b>
	72 VDC	0,038	<b>P2E-MV35T0</b>	0,038	<b>P2E-MV35T1</b>
	78 VDC	0,038	<b>P2E-MV35Y0</b>	0,038	<b>P2E-MV35Y1</b>
	96 VDC	0,038	<b>P2E-MV35V0</b>	0,038	<b>P2E-MV35V1</b>
110 VDC	0,038	<b>P2E-MV35E0</b>	0,038	<b>P2E-MV35E1</b>	




Solenoids 15 mm NC, food industry version

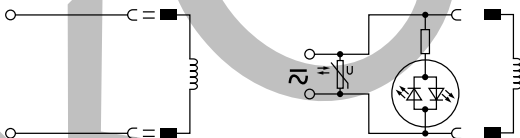
(Note! Mounting screws included in basic valve)

	Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code Override, yellow, locking flush
	24 VDC	0,038	<b>P2E-QV32C0</b>	0,038	<b>P2E-QV32C1</b>	0,038	<b>P2E-QV32C2</b>
	48 VDC	0,038	<b>P2E-QV32D0</b>	0,038	<b>P2E-QV32D1</b>	0,038	<b>P2E-QV32D2</b>
	24 VAC 50Hz	0,038	<b>P2E-QV31C0</b>	0,038	<b>P2E-QV31C1</b>	0,038	<b>P2E-QV31C2</b>
	48 VAC 50/60Hz	0,038	<b>P2E-QV34D0</b>	0,038	<b>P2E-QV34D1</b>	0,038	<b>P2E-QV34D2</b>
	115 V 50Hz/ 120 V 60Hz	0,038	<b>P2E-QV31F0</b>	0,038	<b>P2E-QV31F1</b>	0,038	<b>P2E-QV31F2</b>
	230 VAC 50Hz/ 240 VAC 60Hz	0,038	<b>P2E-QV31J0</b>	0,038	<b>P2E-QV31J1</b>	0,038	<b>P2E-QV31J2</b>
		Voltage	Weight Kg	Order code Override extended, non locking flush	Weight Kg	Order code Override extended, locking flush	
24 VDC		0,038	<b>P2E-QV32C3</b>	0,038	<b>P2E-QV32C4</b>		
24 VAC 50Hz		0,038	<b>P2E-QV31C3</b>	0,038	<b>P2E-QV31C4</b>		
115 VAC 50 Hz		0,038	<b>P2E-QV31F3</b>	0,038	<b>P2E-QV31F4</b>		
230 VAC 50 Hz		0,038	<b>P2E-QV31J3</b>	0,038	<b>P2E-QV31J4</b>		

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

**Solenoid Connectors / Cable Plugs EN175301-803**

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



<b>P8C-C</b>	<b>P8C-D26C</b>	<b>P8L-C226C</b>
<b>P8C-D</b>	<b>P8C-D21E</b>	<b>P8L-C526C</b>
<b>P8L-C2</b>	<b>P8C-C26C</b>	<b>P8L-CA26C</b>
<b>P8L-C5</b>	<b>P8C-C21E</b>	<b>P8L-C221E</b>
<b>3EV10V10</b>		<b>P8L-C521E</b>
<b>3EV290V10</b>	<b>3EV10V20-24</b>	<b>3EV10V20-24L5</b>
	<b>3EV10V20-110</b>	<b>3EV10V20-110L5</b>
	<b>3EV10V20-230</b>	<b>3EV10V20-230L5</b>