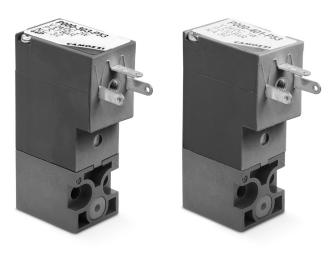
Series P directly operated solenoid valves

3/2-way - Normally Closed (NC) and Normally Open (NO)



» Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge ø 3 and 4).

Please note that all Series P solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

Series P directly operated mini-solenoid valves are available as 3/2-way, either NC or NO. Both versions can be mounted on single bases or on manifolds and they are equipped with a manual override which makes the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO Operation direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter $0.8\,\ldots\,1.5\;mm$

14 ... 35 NI/min (air @ 6 bar ΔP 1 bar) Nominal flow

Flow coefficient kv (l/min) $0.21 \dots 0.54$ Operating pressure 0 ÷ 3 ... 10 bar 0°C ÷ 50°C Operating temperature

filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas Media

Response time (ISO 12238) ON <10 msec - OFF <15 msec

Manual override monostable button Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer Seals FKM, NBR (FKM on demand) Internal parts

stainless steel

ELECTRICAL FEATURES

12 ... 110 V DC - 24 ... 110 V AC 50/60 Hz

±10% Voltage tolerance

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100%

Electrical connection with industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

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CODING EXAMPLE

3 3 P 3 P 0 00

SERIES

BODY DESIGN: 0

0 = single sub-base (M5 only) or interface 1 = single manifold

2 = double sided manifold

NUMBER OF POSITIONS: 00

00 = interface 01 = single base (M5 only)

02 ÷ 99 = manifold number of positions

NUMBER OF WAYS - FUNCTIONS: 3

0 = manifold or single base 3 = 3-way NC

4 = 3-way NO

5 = 3-way NC electric part revolved by 180° 6 = 3-way NO electric part revolved by 180°

VALVE PORTS: 0

0 = interface (for single valve only)

MANIFOLD PORTS (for Series W, P and PN):

2 = M5 side port 3 = ø 3 tube side port

4 = ø 4 tube side port

6 = M5 rear ports

7 = ø 3 tube rear ports

8 = ø 4 tube rear ports

NOMINAL DIAMETER - MAX PRESSURE 3

1 = Ø 0,8 (1W) 3 = Ø 1,5 (2W) 10 bar (NC) 24V only 7 bar (NC) 5 bar (NO)

5 = ø 1,1 NC (2W) ø 0,9 NO (2W) 10 bar (NC) 10 bar (NO)

6 = ø 1,5 NC (2W)

MATERIALS:

P = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)

ELECTRICAL CONNECTION: 5

5 = industrial standard connection (9.4 mm)

SOLENOID VOLTAGE: 3

B = 24V 50/60 Hz C = 48V 50/60 Hz 2 = 12V DC 3 = 24V DC 6 = 110V DC

D = 110V 50/60 Hz 4 = 48V DC

= with screws for metal (standard)

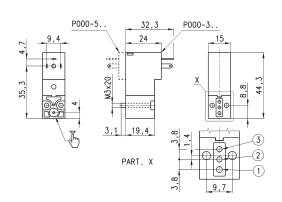
P = with screws for plastics

3/2-way NC solenoid valve



Supplied with: 1x interface seal 2x screws M3x20 UNI 8112 (fixing for metal, standard) or 2x screws M3x23 UNI 10227 (fixing for plastics, P option)





| Mod. | Orifice Ø (mm) | kv (l/min) | Qn (NI/min) | Pressure min-max (bar) |
|--------------|----------------|------------|-------------|------------------------|
| P000-301-P53 | 0,8 | 0.21 | 14 | 0 ÷ 10 |
| P000-303-P53 | 1,5 | 0.54 | 35 | 0 ÷ 7 |
| P000-305-P53 | 1,1 | 0.39 | 25 | 0 ÷ 10 |
| P000-306-P53 | 1,5 | 0.54 | - | 0 ÷ 3 |

^{*} Voltage tolerance from +10% to -25%

2

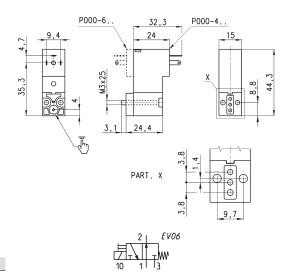


3/2-way NO solenoid valve

Supplied with: 1x interface for NO version (connections 1 and 3 are inverted)

2x interface seals

2x screws M3x25 UNI 8112 (for standard version)

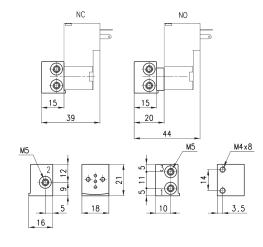


| Mod. | Orifice Ø (mm) | kv (l/min) | Qn (NI/min) | Pressure min-max (bar) |
|--------------|----------------|------------|-------------|------------------------|
| P000-405-P53 | 0.9 | 0.23 | 15 | 0 ÷ 10 |
| P000-403-P53 | 1.5 | 0.54 | - | 0 ÷ 5 |



Single sub-base





Mod. **P001-02**



Single manifold with rear outlets

| DIMENSIO | ONE | | | | | | |
|----------|-----------|-----|----|------|----|-------|-------|
| Mod. | N° Valves | L | L1 | L2 | L3 | 1 (P) | 3 (R) |
| P102-0* | 2 | 53 | 39 | 18,5 | 16 | G1/8 | G1/8 |
| P103-0* | 3 | 69 | 55 | 18,5 | 16 | G1/8 | G1/8 |
| P104-0* | 4 | 85 | 71 | 18,5 | 16 | G1/8 | G1/8 |
| P105-0* | 5 | 101 | 87 | 18,5 | 16 | G1/8 | G1/8 |
| | | | | | | | |

18,5

16

G1/8

G1/8

* = see the type of PORTS in the CODING EXAMPLE TABLE.

L2 L3 L3

A = groove for electric connection identification

Α

117

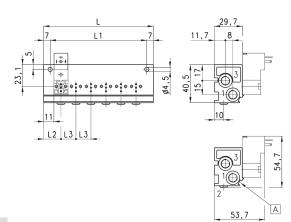
103

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Single manifold with front outlets

This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory



| DIMENSIONS | | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|--|
| Mod. | Nr valves | L | L1 | L2 | L3 | 1 (P) | 3 (R) | |
| P102-0* | 2 | 53 | 39 | 18,5 | 16 | G1/8 | G1/8 | |
| P103-0* | 3 | 69 | 55 | 18,5 | 16 | G1/8 | G1/8 | |
| P104-0* | 4 | 85 | 71 | 18,5 | 16 | G1/8 | G1/8 | |
| P105-0* | 5 | 101 | 87 | 18,5 | 16 | G1/8 | G1/8 | |
| P106-0* | 6 | 117 | 103 | 18,5 | 16 | G1/8 | G1/8 | |

* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



Double sided manifold with rear outlets



| 233 | | L . | |
|-----------------------------------|----------|------------|-------------------------------|
| | 7 | L1 7 | 33,1 |
| 11 12 L3 L3 Ø4.5 57.1 A 2 3 6 8 8 | 0.000000 | 00:00:00:0 | 30.5 |
| | 11 | ø4,5 | 57,1 A 2 3 9 8 |

| DIMENSIONS | | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|--|
| Mod. | Nr valves | L | L1 | L2 | L3 | 1 (P) | 3 (R) | |
| P204-0* | 4 | 53 | 39 | 18,5 | 16 | G1/8 | G1/8 | |
| P206-0* | 6 | 69 | 55 | 18,5 | 16 | G1/8 | G1/8 | |
| P208-0* | 8 | 85 | 71 | 18,5 | 16 | G1/8 | G1/8 | |
| P210-0* | 10 | 101 | 87 | 18,5 | 16 | G1/8 | G1/8 | |
| P212-0* | 12 | 117 | 103 | 18,5 | 16 | G1/8 | G1/8 | |

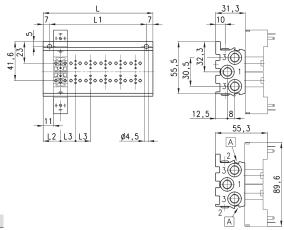
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



Double sided manifold with front outlets

This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



DIMENSIONS Mod. Nr valves LI L2 L3 1 (P) 3 (R) P204-0* 53 39 18,5 16 G1/8 G1/8 P206-0* 69 55 18,5 G1/8 G1/8 6 16 P208-0* 8 85 71 18,5 16 G1/8 G1/8 P210-0* 10 101 87 18.5 16 G1/8 G1/8 P212-0* 12 103 18,5 16 G1/8 G1/8

* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

2

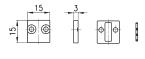


Excluder tap



Supplied with: 1x excluder tap 1x interface seal

1x interface sea 2x screws

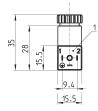


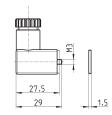
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Mod.



Industrial standard (9.4 mm) connector Mod. 125-...





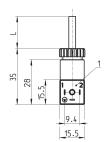
| Mod. | description | colour | working voltage | cable holding | tightening torque |
|---------|--------------------------------|-------------|-----------------|---------------|-------------------|
| 125-601 | connector, diode + Led | transparent | 10/50 V DC | PG7 | 0.3 Nm |
| 125-701 | connector, varistor + Led | transparent | 24 V AC/DC | PG7 | 0.3 Nm |
| 125-800 | connector, without electronics | black | - | PG7 | 0.3 Nm |

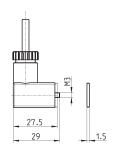
1 = 90° adjustable connector



Industrial standard (9.4 mm) connector Mod. 125-... with cable

The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.





| Mod. | description | colour | working voltage | cable length [L] | cable holding | tightening torque |
|-----------|--|-------------|----------------------|-----------------------|------------------|----------------------|
| 125-501-2 | moulded cable with diode + Led | black | 10/50 V DC | 2000 mm | - | 0.3 Nm |
| 125-550-1 | moulded cable, without electronics | black | - | 1000 mm | - | 0.3 Nm |
| 125-601-2 | pre-wired cable, diode + Led | transparent | 10/50 V DC | 2000 mm | PG7 | 0.3 Nm |
| 125-571-3 | moulded cable, varistor + Led | black | 24 V AC/DC | 3000 mm | - | 0.3 Nm |
| 125-900 | pre-wired cable with voltage rectifier | black | 6 V - 110 V AC/DC | 2000 mm | PG7 | 0.3 Nm |

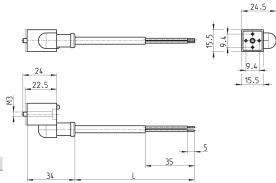
1 = 90° adjustable connector

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Industrial standard (9.4 mm) in-line connectors with cable

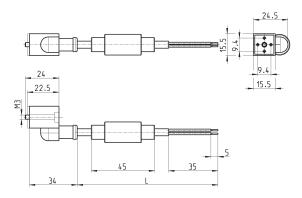




| Mod. | description | colour | working voltage | cable length [L] | cable holding | tightening torque |
|-----------|--|--------|--------------------|-----------------------|------------------|----------------------|
| 125-503-2 | in-line moulded cable, with diode + Led | black | 24 V DC | 2000 mm | - | 0.3 Nm |
| 125-503-5 | in-line moulded cable, with diode + Led | black | 24 V DC | 5000 mm | - | 0.3 Nm |
| 125-553-2 | in-line moulded cable, without electronics | black | - | 2000 mm | - | 0.3 Nm |
| 125-553-5 | in-line moulded cable, without electronics | black | - | 5000 mm | - | 0.3 Nm |

Industrial standard (9.4 mm) in-line connectors with bridge rectifier





| Mod. | description | colour | working voltage | cable length [L] | cable holding | tightening torque |
|-----------|---|--------|----------------------|---------------------|------------------|----------------------|
| 125-903-2 | in-line moulded cable with voltage rectifier | black | 6 V - 230 V AC/DC | 2000 mm | - | 0.3 Nm |
| 125-903-5 | in-line moulded cable with voltage rectifier | black | 6 V - 230 V AC/DC | 5000 mm | - | 0.3 Nm |