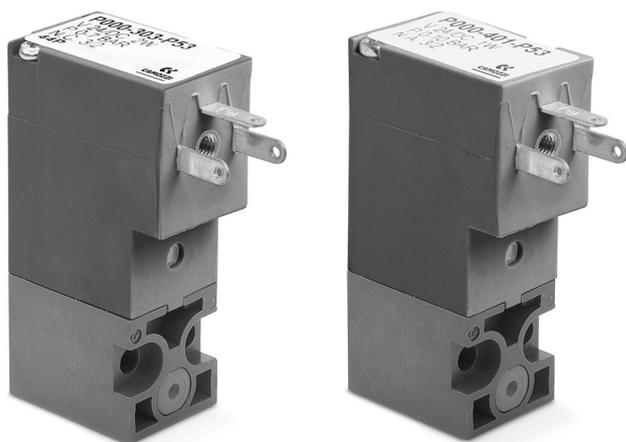


Series P direct acting solenoid valves

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 fittings for Ø3 or Ø4 tube).

Series P direct acting solenoid valves are available as 3/2-way, either NC or NO. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a monostable manual override.

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.

GENERAL DATA

TECHNICAL FEATURES

| | |
|-----------------------------|---|
| Function | 3/2 NC - 3/2 NO |
| Operation | direct acting poppet type |
| Pneumatic connections | on subbase with ISO 15218 interface |
| Orifice diameter | 0.8 ... 1.5 mm |
| Flow coefficient kv (l/min) | 0.21 ... 0.54 |
| Operating pressure | 0 ÷ 3 ... 10 bar |
| Operating temperature | 0 ÷ 50 °C |
| Media | filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas |
| Response time (ISO 12238) | ON <10 ms - OFF <15 ms |
| Manual override | monostable |
| Installation | in any position |

MATERIALS IN CONTACT WITH THE MEDIUM

| | |
|----------------|-----------------------|
| Body | PBT |
| Seals | PU - NBR - FKM - EPDM |
| Internal parts | stainless steel |

ELECTRICAL FEATURES

| | |
|-----------------------|---|
| Voltage | 12 ... 110 V DC - 24 ... 110 V AC 50/60 Hz - other voltages on demand |
| Voltage tolerance | ±10% |
| Power consumption | 1 ... 2 W |
| Duty cycle | ED 100% |
| Electrical connection | industrial standard connector (9.4 mm) |
| Protection class | IP65 with connector |

Special versions available on demand

CODING EXAMPLE

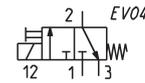
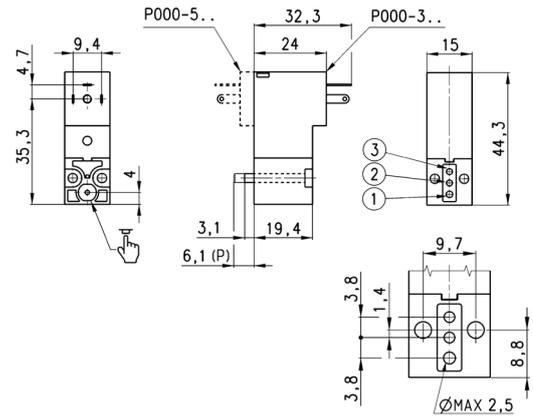
| | | | | | | | | | | | |
|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| P | 0 | 00 | - | 3 | 0 | 3 | - | P | 5 | 3 | |
|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|--|

| | |
|-----------|--|
| P | SERIES |
| 0 | BODY DESIGN 0 = single sub-base (M5 only) or interface 1 = single manifold 2 = double sided manifold |
| 00 | NUMBER OF POSITIONS 00 = ISO 15218 interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions |
| 3 | NUMBER OF WAYS - FUNCTIONS 0 = manifold or single base 3 = 3/2-way - NC 4 = 3/2-way - NO 5 = 3/2-way - NC electric part revolved by 180° 6 = 3/2-way - NO electric part revolved by 180° |
| 0 | VALVE PORTS 0 = ISO 15218 interface MANIFOLD PORTS for P - PL - PN - W Series 2 = M5 thread - front outlets 3 = tube Ø 3 mm fittings - front outlets 4 = tube Ø 4 mm fittings - front outlets 6 = M5 thread - bottom outlets 7 = tube Ø 3 mm fittings - bottom outlets 8 = tube Ø 4 mm fittings - bottom outlets |
| 3 | ORIFICE DIAMETER 1 = Ø 0.8 mm 3 = Ø 1.5 mm 5 = Ø 1.1 mm - NC versions 6 = Ø 1.5 mm - NC versions with voltage tolerance -25% ÷ +10% 5 = Ø 0.9 mm - NO versions |
| P | MATERIALS E = PBT body - EPDM seals F = PBT body - FKM seals P = PBT body - NBR - FKM - PU seals |
| 5 | ELECTRICAL CONNECTION 5 = industrial standard form C (9.4 mm) |
| 3 | VOLTAGE - POWER CONSUMPTION 2 = 12 V DC - 2 W (1 W only for NC - Ø 0.8 mm version) B = 24 V 50/60 Hz - 2 W 3 = 24 V DC - 2 W (1 W only for NC - Ø 0.8 mm version) C = 48 V 50/60 Hz - 2 W 4 = 48 V DC - 2 W D = 110 V 50/60 Hz - 2 W 6 = 110 V DC - 2 W |
| | FIXING = fixing screws for metal P = fixing screws for plastic |
| | OPTIONS = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m ²) OX2 = for use with oxygen (non volatile residual less than 33 mg/m ²) |

Series P solenoid valve - 3/2-way NC



Supplied with:
 1x interface seal
 2x M3x20 screws for mounting on metal
 or
 2x Ø3x23 screws for mounting on plastic



(see CODING EXAMPLE)

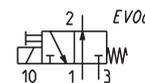
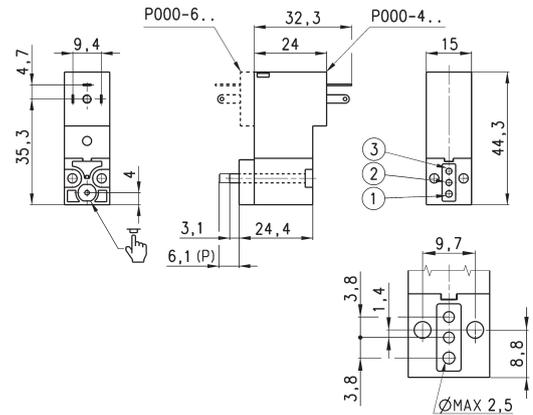
* add
 - MATERIALS
 - VOLTAGE

| Mod. | Function | Orifice Ø (mm) | kv (l/min) | Min÷max pressure (bar) | Power (W) |
|-------------|----------|----------------|------------|------------------------|-----------|
| P000-301-5* | 3/2 NC | 0.8 | 0.21 | 0 ÷ 10 | 1 |
| P000-305-5* | 3/2 NC | 1.1 | 0.39 | 0 ÷ 10 | 2 |
| P000-303-5* | 3/2 NC | 1.5 | 0.54 | 0 ÷ 7 | 2 |
| P000-306-5* | 3/2 NC | 1.5 | 0.54 | 0 ÷ 3 | 2 |
| P000-501-5* | 3/2 NC | 0.8 | 0.21 | 0 ÷ 10 | 1 |
| P000-505-5* | 3/2 NC | 1.1 | 0.39 | 0 ÷ 10 | 2 |
| P000-503-5* | 3/2 NC | 1.5 | 0.54 | 0 ÷ 7 | 2 |
| P000-506-5* | 3/2 NC | 1.5 | 0.39 | 0 ÷ 3 | 2 |

Series P solenoid valve - 3/2-way NO



Supplied with:
 1x interface for NO with position ports as per NC (ports 1 and 3 are inverted)
 2x interface seals
 2x M3x25 screws for mounting on metal



(see CODING EXAMPLE)

* add
 - MATERIALS
 - VOLTAGE

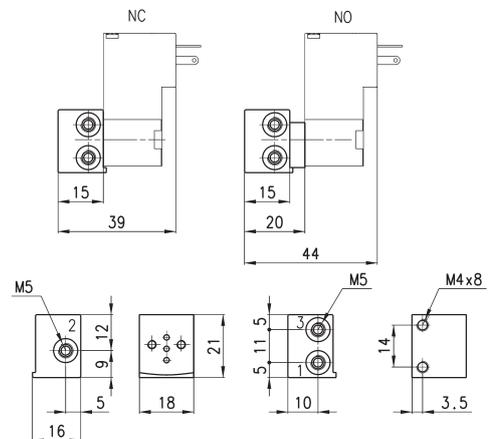
| Mod. | Function | Orifice Ø (mm) | kv (l/min) | Min÷max pressure (bar) | Power (W) |
|-------------|----------|----------------|------------|------------------------|-----------|
| P000-405-5* | 3/2 NO | 0.9 | 0.23 | 0 ÷ 10 | 2 |
| P000-403-5* | 3/2 NO | 1.5 | 0.39 | 0 ÷ 5 | 2 |
| P000-605-5* | 3/2 NO | 0.9 | 0.23 | 0 ÷ 10 | 2 |
| P000-603-5* | 3/2 NO | 1.5 | 0.39 | 0 ÷ 5 | 2 |

Single sub-base for 3-way solenoid valve size 15 mm



Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve
 Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium
 Connections: M5 threads



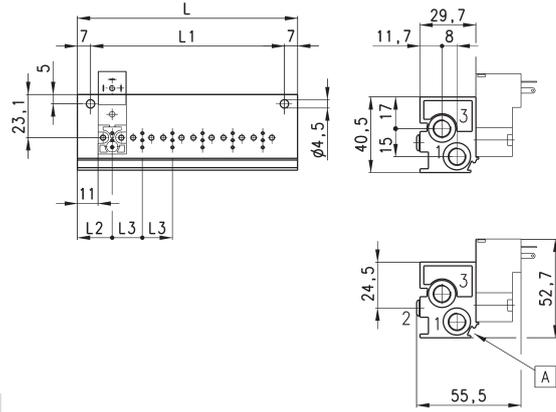
| |
|---------|
| Mod. |
| P001-02 |

Manifold - single side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W
3-way solenoid valve
Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



| DIMENSIONS | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|
| Mod. | Positions | 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 |

* add
- MANIFOLD PORTS
(see CODING EXAMPLE)

A = groove for identification label

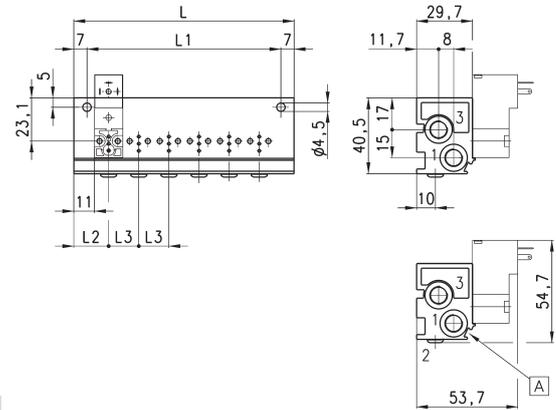
Manifold - single side valve - frontal outlets



Manifold suitable for Series P - PL - PN - W
3-way solenoid valve
Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



| DIMENSIONS | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|
| Mod. | Positions | 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 |

* add
- MANIFOLD PORTS
(see CODING EXAMPLE)

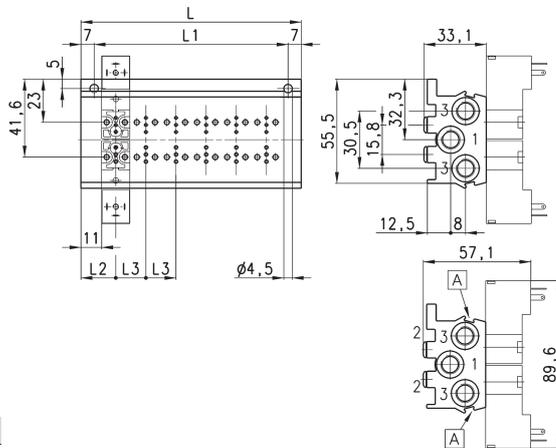
A = groove for identification label

Manifold - double side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W
3-way solenoid valve
Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



| DIMENSIONS | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|
| Mod. | Positions | 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 |

* add
- MANIFOLD PORTS
(see CODING EXAMPLE)

A = groove for identification label

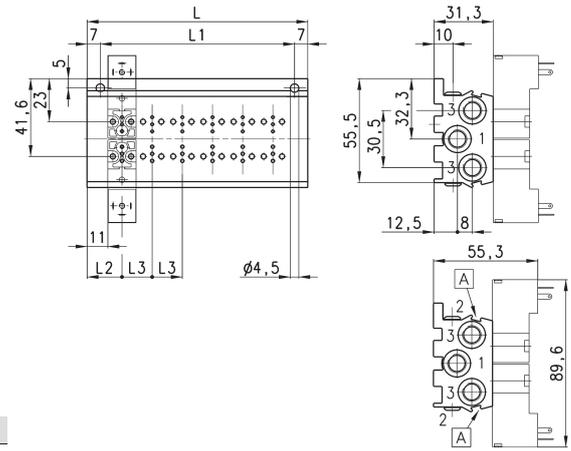
Manifold - double side valve - frontal outlets



Manifold suitable for Series P - PL - PN - W
3-way solenoid valve
Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



| DIMENSIONS | | | | | | | |
|------------|-----------|-----|-----|------|----|-------|-------|
| Mod. | Positions | 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 |

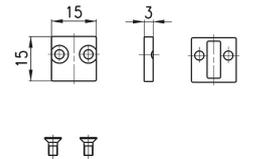
* add
- MANIFOLD PORTS
(see CODING EXAMPLE)

A = groove for identification label

Position valve cap

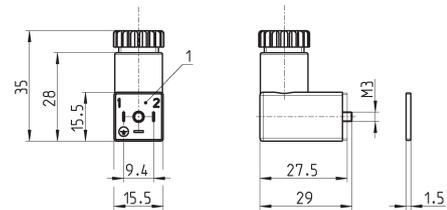


Supplied with:
1x position valve cap
1x interface seal
2x screws



| Mod. |
|---------|
| P000-TP |

Connector Mod. 125-... - industrial std. 9.4 mm



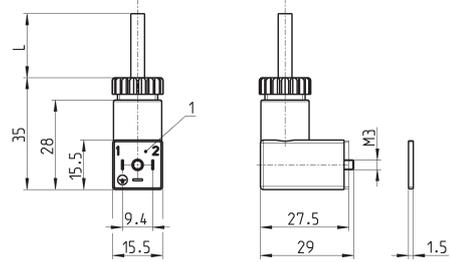
| Mod. | description | colour | working voltage | cable gland | tightening torque |
|---------|--------------------------------|-------------|-----------------|-------------|-------------------|
| 125-601 | connector, diode + Led | transparent | 10/50 V DC | PG7 | 0.3 Nm |
| 125-701 | connector, varistor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

1 = 90° adjustable connector

Connector Mod. 125-... - industrial std. 9.4 mm - 90° cable



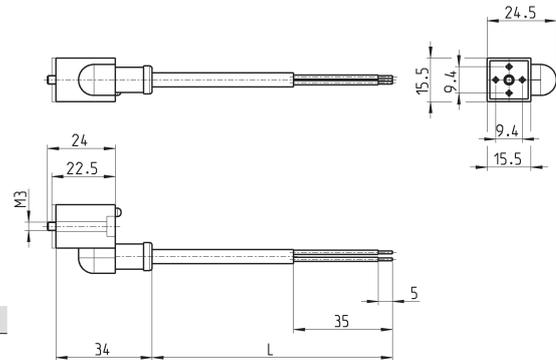
The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



| Mod. | description | colour | working voltage | cable length [L] | cable gland | 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

Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



| Mod. | description | colour | working voltage | cable length [L] | cable gland | 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 |