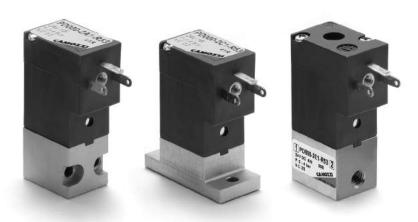


Series PD directly operated solenoid valves



2/2-way Normally Closed (NC)



Note: all Series PD 2/2-way solenoid valves are basically in DC.

To operate in AC at the same target voltage, the valves need to use the connector Mod. 125-800 or Mod. 125-900.

This directly operated solenoid valve is available as 2/2-way, NC, in several sizes and in three different versions.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC

Operation direct acting poppet type

Pneumatic connections on subbase by means of M3 screws - M5 threads

Nominal diameter $0.8\,\ldots\,2.5\;mm$

Nominal flow 25 ... 125 NI/min (air @ 6 bar ΔP 1 bar)

0.39 ... 1.93 -0.9 ÷ 4 ... 12 bar Kv (I/min) Operating pressure 0 ÷ +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 ON <10 msec - OFF <15 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

brass, anodized aluminium Body NBR, (FKM on demand) Seals Internal parts stainless steel

ELECTRICAL FEATURES

24 V DC - 12 V DC - other voltages on demand

Voltage tolerance 1 and 2 W $\pm 10\%$ - 4 W $\pm 5\%$

1 ... 4 W Power consumption

Duty cycle ED 100% (1 and 2 W) - ED 50% (4W) see the ED definition diagram

Electrical connection DIN 43650 connector, (C Shape), 9.4 mm

Protection class IP65 with connector

Special versions available on demand

_

CONTROL

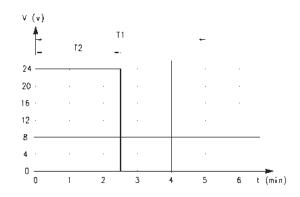
| COD | CODING EXAMPLE | | | | | | | | | | |
|-----|--|---|--------------------------------|---|---|---|---|---|---|---|--|
| ı | | 1 | | | | | | | | | |
| PD | 0 | 00 | - | 2 | Α | 1 | - | R | 5 | 3 | |
| PD | SERIES | | | | | | | | | | |
| 0 | BODY DESIGN 0 = single body | | | | | | | | | | |
| 00 | NUMBER OF P 00 = interface | OSITIONS: | | | | | | | | | |
| 2 | NUMBER OF V 2 = 2-way NC | VAYS - FUNCTION | NS: | | | | | | | | |
| Α | A = aluminium l C = aluminium l | ALS AND VALVE body, rear pneuma body, low pneumat M5 ports (for ø up | tic interface tic interface | | | | | | | | |
| 1 | NOMINAL DIAMETER: 1 = 0 0.8 2 = 0 1.2 3 = 0 1.6 4 = 0 2 5 = 0 2.5 | | | | | | | | | | |
| R | POPPET SEAL R = NBR F = FKM (on re | | | | | | | | | | |
| 5 | ELECTRICAL C 5 = 3 faston pito | | | | | | | | | | |
| 3 | SOLENOID VO 1 = 12V DC 1W 2 = 12V DC 2W 3 = 24V DC 1W 5 = 24V DC 2W 8 = 24V DC 4W | , , , | | | | | | | | | |

ED definition diagram

= with screws for metal (standard)
P = with screws for plastics

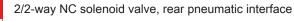
Operating factor lower than 50%

T1 = cycle time (5 minutes max)
T2 = energizing time
t = time (minutes)
V = working voltage (volt)
ED = T2/T1 x 100



2





Supplied with:

2x OR seals

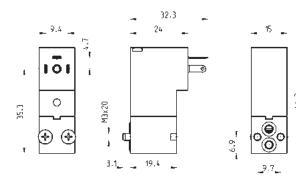
2x screws M3x20 UNI 8112 (for standard version)

2x screws M3x23 UNI 10227

(for version P)

For use with vacuum invert channel

1 and channel 2.





| 2 EV01 | | |
|--------|--|--|
| 1 | | |
| | | |
| | | |

| Mod. | Orifice Ø (mm) | Qn (Nl/min) | Kv | Pressure min-max (bar) | Consumption (W) | ED (%) |
|---------------|----------------|-------------|----|------------------------|-----------------|--------|
| PD000-2A1-R51 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2A1-R53 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2A2-R52 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2A2-R55 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2A3-R52 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |
| PD000-2A3-R55 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |
| PD000-2A4-R58 | 2 | 85 | - | 0 ÷ 6 | 4 | 50 |
| PD000-2A5-R58 | 2.5 | 125 | - | 0 ÷ 4 | 4 | 50 |

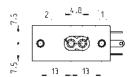
2/2-way NC solenoid valve, low pneumatic interface

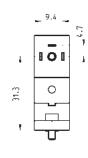
Supplied with:

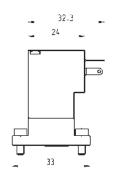
1x seal

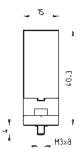
2x screws M3x8 UNI 5931

For use with vacuum invert channel 1 and channel 2.





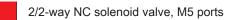






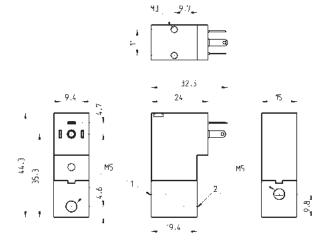
| Mod. | Orifice Ø (mm) | Qn (NI/min) | Kv | Pressure min-max (bar) | Consumption (W) | ED (%) |
|---------------|----------------|-------------|----|------------------------|-----------------|--------|
| PD000-2C1-R51 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2C1-R53 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2C2-R52 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2C2-R55 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2C3-R52 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |
| PD000-2C3-R55 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |
| PD000-2C4-R58 | 2 | 85 | - | 0 ÷ 6 | 4 | 50 |
| PD000-2C5-R58 | 2.5 | 125 | - | 0 ÷ 4 | 4 | 50 |





For use with vacuum invert channel 1 and channel 2.





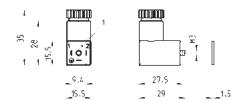


| Mod. | Orifice Ø (mm) | Qn (NI/min) | Kv | Pressure min-max (bar) | Consumption (W) | ED (%) |
|---------------|----------------|-------------|----|------------------------|-----------------|--------|
| PD000-2E1-R51 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2E1-R53 | 0.8 | 25 | - | 0 ÷ 12 | 1 | 100 |
| PD000-2E2-R52 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2E2-R55 | 1.2 | 35 | - | 0 ÷ 12 | 2 | 100 |
| PD000-2E3-R52 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |
| PD000-2E3-R55 | 1.6 | 45 | - | 0 ÷ 7 | 2 | 100 |

2



Connector Mod. 125-... DIN 43650 pitch 9.4 mm



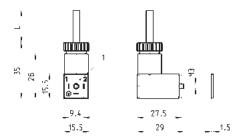
| Mod. | description | colour | working voltage | cable holding | tightening torque |
|---------|--------------------------------|-------------|-----------------|---------------|-------------------|
| 125-601 | connector, diode + Led | transparent | 10/50 V DC | PG7 | 0.3 Nm |
| 125-701 | connector, 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



Connector Mod. 125-... DIN 43650 pitch 9.4 mm 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 |

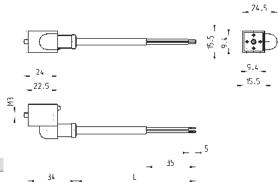
1 = 90° adjustable connector

CK CAMOZZI





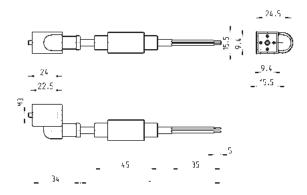




| Mod. | description | colour | working voltage | cable length [L] | cable holding | tightening torque |
|-----------|--|--------|--------------------|-----------------------|------------------|----------------------|
| 125-503-2 | in-line moulded cable, with diode + Led | black | 24 V DC | 2000 mm | - | 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 |

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 |