# 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 ... 2.5 mm

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

 Kv (l/min)
 0.39 ... 1.93 

 Operating pressure
  $-0.9 \div 4 ... 12$  bar

 Operating temperature
  $0 \div +50^{\circ}$ C

Operating temperature0 ÷ +50°CMediafiltered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

**Response time** ON <10 msec - OFF <15 msec

**Installation** in any position

#### MATERIALS IN CONTACT WITH THE MEDIUM

 Body
 brass, anodized aluminium

 Seals
 NBR, (FKM on demand)

 Internal parts
 stainless steel

#### **ELECTRICAL FEATURES**

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

Voltage tolerance 1 and 2 W ±10% - 4 W ±5%

Power consumption 1 ... 4 W

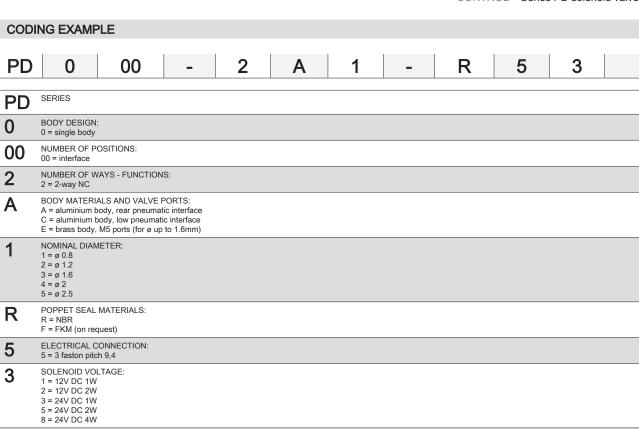
**Duty cycle** ED 100% (1 and 2 W) - ED 50% (4W) see the ED definition diagram

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

Protection class IP65 with connector

#### Special versions available on demand

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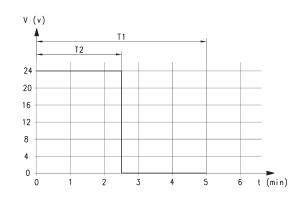


#### ED definition diagram

= 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





#### 2/2-way NC solenoid valve, rear pneumatic interface

Supplied with:

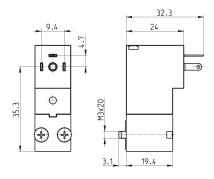
2x OR seals

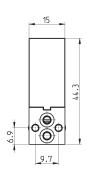
2x screws M3x20 UNI 8112 (for standard version)

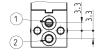
2x screws M3x23 UNI 10227

(for version P)

For use with vacuum invert channel 1 and channel 2.







		2	EV01
П	1	T	w
12		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

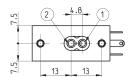
#### 2/2-way NC solenoid valve, low pneumatic interface

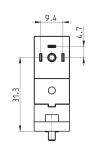
Supplied with:

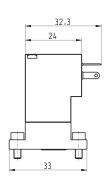
1x seal

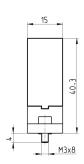
2x screws M3x8 UNI 5931

For use with vacuum invert channel 1 and channel 2.









	2	EV0
	T	w
12	1	

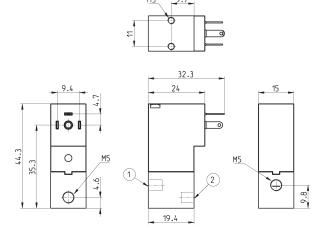
Mod.	Orifice Ø (mm)	Qn (NI/min)	Kv	Pressure min-max (bar)	Consumption (W)	ED (%)
PD000-2C1-R51	0.8	25	-	0 ÷ 12	1	100
PD000-2C1-R53	0.8	25	-	0 ÷ 12	1	100
PD000-2C2-R52	1.2	35	-	0 ÷ 12	2	100
PD000-2C2-R55	1.2	35	-	0 ÷ 12	2	100
PD000-2C3-R52	1.6	45	-	0 ÷ 7	2	100
PD000-2C3-R55	1.6	45	-	0 ÷ 7	2	100
PD000-2C4-R58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





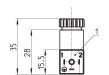


Mod.	Orifice Ø (mm)	Qn (Nl/min)	Kv	Pressure min-max (bar)	Consumption (W)	ED (%)
PD000-2E1-R51	0.8	25	-	0 ÷ 12	1	100
PD000-2E1-R53	0.8	25	-	0 ÷ 12	1	100
PD000-2E2-R52	1.2	35	-	0 ÷ 12	2	100
PD000-2E2-R55	1.2	35	-	0 ÷ 12	2	100
PD000-2E3-R52	1.6	45	-	0 ÷ 7	2	100
PD000-2E3-R55	1.6	45	-	0 ÷ 7	2	100

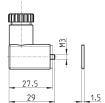
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### Connector Mod. 125-... DIN 43650 pitch 9.4 mm



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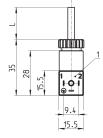


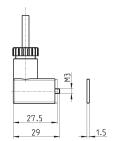
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

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.





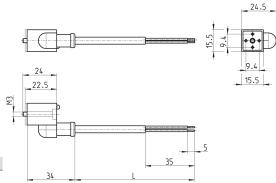
Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 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

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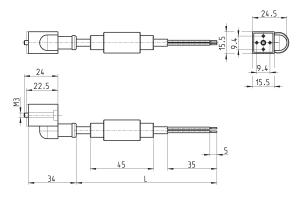
Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics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

## In-lir

#### 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