Series PD directly operated solenoid valves

New models

2/2-way - Normally Closed (NC)



Please note that all Series PD 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.

The Series PD directly operated solenoid valves are available in the 2/2-way normally closed (NC) version. Pneumatic interfaces allow installation on manifolds in horizontal or vertical position. Also available with threaded connections.

GENERAL DATA

TECHNICAL FEATURES

Function

direct acting poppet type Operation **Pneumatic connections** on subbase - M5 threads Orifice diameter 0.8 ... 2.5 mm Flow coefficient kv (l/min) 0.39 ... 1.93 Operating pressure -0.9 ÷ 4 ... 12 bar

Operating temperature

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

Response time Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

brass - anodized aluminium - POM NBR - FKM - EPDM

Internal parts stainless steel

ELECTRICAL FEATURES

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

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

Power consumption $1\dots 4\,W$

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

Electrical connection industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

New models

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SERIES PD BODY DESIGN 0 0 = single body NUMBER OF POSITIONS 00 = interface NUMBER OF WAYS - FUNCTIONS 2 = 2/2-way - NC 2 MATERIAL - BODY CONNECTIONS A = aluminium body - lateral interface Α AR = aluminium body - lateral interface - electric part revolved by 180° C = aluminium body - bottom interface CR = aluminium body - bottom interface - electric part revolved by 180° DF = POM body - bottom interface DR = POM body - bottom interface - electric part revolved by 180° E = brass body - M5 threaded ports ER = brass body - M5 threaded ports - electric part revolved by 180° ORIFICE DIAMETER 1 1 = Ø 0.8 mm 2 = Ø 1.2 mm 3 = Ø 1.6 mm 4 = Ø 2.0 mm 5 = Ø 2.5 mm SEAL MATERIAL R R = NBR F = FKM E = EPDM ELECTRICAL CONNECTION 5 5 = industrial standard (9.4 mm) VOLTAGE - POWER CONSUMPTION 3 1 = 12 V DC - 1 W 2 = 12 V DC - 2 W 3 = 24 V DC - 1 W5 = 24 V DC - 2 W 8 = 24 V DC - 4 W FIXING = with screws for metal P = with screws for plastics

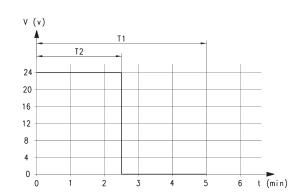
ED definition diagram

OPTIONS

Operating factor lower than 50%

= standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²) OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

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



PD000-2A...

SERIES PD SOLENOID VALVES

Series PD solenoid valve - aluminium body - lateral interface



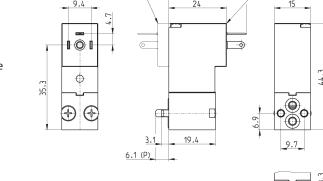
* add - SEAL MATERIAL

- VOLTAGE (see CODING EXAMPLE)

Supplied with: 2x O-Rings 2x M3x20 screws for mounting on metal

2x Ø3x23 screws for mounting on plastic

For vacuum applications connect the suction source to port 2



32.3

PD000-2AR...



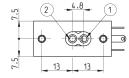
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2A1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2AR1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2A2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2AR2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2A3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2AR3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2A4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2AR4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2A5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50
PD000-2AR5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50

Series PD solenoid valve - aluminium body - bottom interface



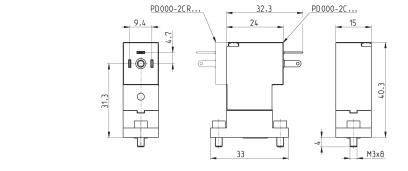
Supplied with: 1x interface seal 2x M3x8 screws for mounting on metal

For vacuum applications connect the suction source to port 2



- SEAL MATERIAL
 VOLTAGE
 (see CODING EXAMPLE)





Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2C1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2CR1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2C2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2CR2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2C3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2CR3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2C4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2CR4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2C5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50
PD000-2CR5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50

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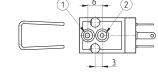
New

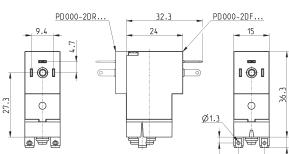
Series PD solenoid valve - POM body - bottom interface



Supplied with: 2x O-Rings 1x mounting clip

For vacuum applications connect the suction source to port 2





	2	1	EVO:
$\overline{\mathbf{A}}$	1	I T	w
12	1	Т	

Mod.	Function	Orifice	kv	Min ÷ max	Power	ED
		Ø (mm)	(l/min)	pressure (bar)	(W)	(%)
PD000-2DF3-E5*	2/2 NC	1.6	0.72	0 ÷ 6	2	100
PD000-2DR3-E5*	2/2 NC	1.6	0.72	0 ÷ 6	2	100

Series PD solenoid valve - brass body - M5 threaded ports

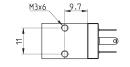


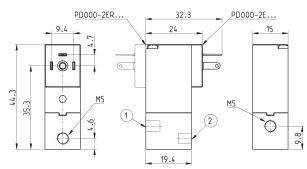
For vacuum applications connect the suction source to port 2











Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2E1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2E1R-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2E2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2E2R-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2E3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2E3R-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100

^{*} add - VOLTAGE (see CODING EXAMPLE)

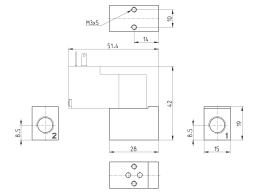


Single sub-base for Series PD lateral interface



Single sub-base suitable for 2-way solenoid valves Series PD and PL models PD000-2A..., PL000-9B... Use solenoid valves with fixing screws for metal (see codification page)

Material: anodized aluminium Connections: G1/8 threads



Mod.

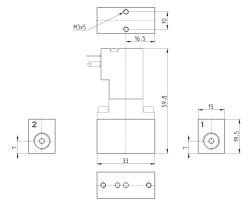
PDA01-1/8

Single sub-base for Series PD bottom interface



Single sub-base suitable for Series PD 2-way solenoid valve models PD000-2C... and PD000-2CR...

Material: anodized aluminium Connections: G1/8 threads



Mod.

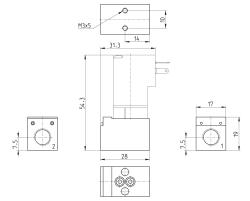
PDC01-1/8

Single sub-base for Series PD bottom interface



Single sub-base suitable for Series PD 2-way solenoid valve models PD000-2DF... and PD000-2DR...

Material: anodized aluminium Connections: G1/8 threads



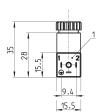
Mod.

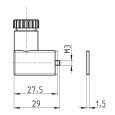
PDD01-1/8

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







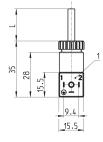
	Mod.	description	colour	working voltage	cable gland	tightening torque
ĺ	125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
	125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
	125-800	connector, without electronics	black	-	PG7	0.3 Nm
	125-701	connector, varistor + Led	transparent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

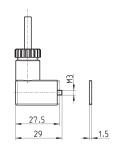
1 = 90° adjustable connector

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.





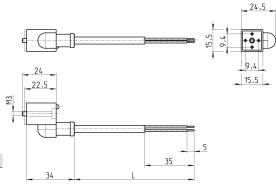
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm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

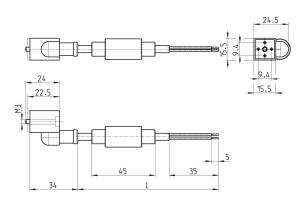




Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics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

Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





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