

Series PL directly operated solenoid valves

2/2-way - Normally Open (NO)

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

3/2-way - Universal (UNI)









- » Application sectors:
 - Industrial Automation
 - Life Science
 - Transportation
- » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø3 and Ø4)

Please note that all Series PL 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 PL directly operated mini-solenoid valves are available in the NO version and can be mounted on single bases or on manifolds.

GENERAL DATA

TECHNICAL FEATURES

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

 Pneumatic connections
 on subbase

 Orifice diameter
 0.8 ... 1.6 mm

 Flow coefficient kv (l/min)
 0.30 ... 0.62

 Operating pressure
 0 ÷ 3.5 ... 10 bar

Operating temperature $0 \div 50 \text{ °C (FKM)} / -50 \div 50 \text{ °C (low temperature NBR on demand)}$

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

Response time ON <10 ms - OFF <15 ms

Manual override mono/bistable - PBT 3/2 versions only

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - PBT - PPS

 Seals
 FKM - NBR - EPDM (on demand)

 Internal parts
 brass - stainless steel

ELECTRICAL FEATURES

Voltage 6 ... 110 V DC - other voltages on demand

Voltage tolerance ±10%
Power consumption 1.2 ... 2.7 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

PL	0	00	-	3	0	3	-	PL	2	3	
PL	SERIES										
0	1 = manifold -	base (M5 only) or in valves single side valves double side	terface								
00	01 = single bas	or Series PD interfa									
3	0 = manifolds of 9 = 2/2-way - N A = 2/2-way - N 5 = 3/2-way - N 4 = 3/2-way - N 6 = 3/2-way - N C = 3/2-way - N 7 = 3/2-way - N 1 = 3/2-way -	10 10 electric part revo 1C 1C electric part revo 10 10 electric part revo 10 IN-LINE* 10 IN-LINE* electric	lved by 180° lved by 180° part revolved by	180°							
0	B = series PD in MANIFOLD POR 2 = M5 thread - 3 = tube Ø 4 m 6 = M5 thread - 7 = tube Ø 3 mi	m fittings - front out m fittings - front out	tlets tlets outlets								
3	ORIFICE DIAMET B = Ø 0.8 mm 1 = Ø 1.1 mm 3 = Ø 1.5 mm (I 5 = Ø 1.5 mm		ssure 4 ÷ 8 bar oı	**							

PL

MATERIALS
PL = PBT body - FKM poppet seal - NBR other seals

PF = PBT body - FKM seals
SF = PPS body - FKM seals
ST = PPS body - Low Temperature NBR seals (on demand)

6 = Ø 1.5 mm (NC version with pressure 0 ÷ 3.5 bar only) 7 = Ø 1.6 mm

BF = nickel-planted brass body - FKM seals

ELECTRICAL CONNECTION 2 2 = industrial standard connection (9.4 mm)

VOLTAGE - POWER CONSUMPTION 3

1 = 6 V DC - 2.7 W - PBT 2 = 12 V DC - 2.7 W - PBT 3 = 24 V DC - 2.7 W - PBT A = 6 V DC - 2.2 W - PPS B = 12 V DC - 2.2 W - PPS C = 24 V DC - 2.2 W - PPS

H = 110 V DC - 3 W - PPS

FIXING

= fixing screws for metal

P = fixing screws for plastics

MANUAL OVERRIDE

= not required or not applicable T = mono/bistable (push/turn type)

OPTIONS

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

^{*} 3/2 NO IN LINE version: port position 1 - 2 - 3 are identical to port positions of 3/2 NC versions

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Series PL solenoid valve - 2/2-way NO - series PD interface



Supplied with: 2x O-Rings 2x M3x20 screws for mounting on metal or 2x Ø3x23 screws for mounting on plastic (opt. P)

9.4 PL000-A... 32.1 PL000-9... 15

3.1 20

6.1 (P)

9.7

* add - VOLTAGE - FIXING (see CODING EXAMPLE)

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Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)
PL000-9B7-PF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	PBT	FKM	по	2.7
PL000-9B7-BF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	brass	FKM	no	2.7

Series PL solenoid valve - 3/2-way NC



Supplied with:

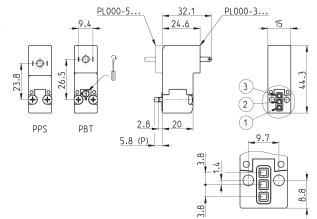
1x interface seal

2x M3x20 screws for mounting on metal or

2x Ø3x23 screws for mounting on plastic (opt. P)

Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

- * add - VOLTAGE - FIXING (see CODING EXAMPLE)
- 2 EV03



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)
PL000-30B-PF2*	3/2 NC	0.8	0.30	0 ÷ 10	PBT	FKM	no	1.2
PL000-30B-PF2*T	3/2 NC	8.0	0.30	0 ÷ 10	PBT	FKM	mono/bistable	1.2
PL000-30B-SF2*	3/2 NC	0.8	0.30	0 ÷ 10	PPS	FKM	no	1.2
PL000-301-PF2*	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	no	2.7
PL000-301-PF2*T	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7
PL000-301-SF2*	3/2 NC	1.1	0.34	0 ÷ 8	PPS	FKM	no	2.2
PL000-303-PL2*	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM+NBR	no	2.7
PL000-303-PF2*T	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM	mono/bistable	2.7
PL000-306-PL2*	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM+NBR	no	2.7
PL000-306-PF2*T	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM	mono/bistable	2.7



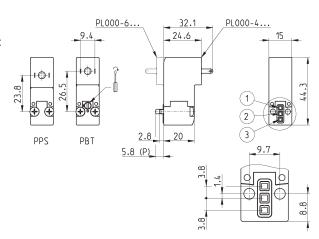
Series PL solenoid valve - 3/2-way NO



Supplied with:
1x interface seal
2x M3x20 screws for mounting on metal
or
2x Ø3x23 screws for mounting on plastic
(opt. P)

Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

- * add - VOLTAGE
- FIXING (see CODING EXAMPLE)



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Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)
PL000-40B-PF2*	3/2 NO	0.8	0.30	0 ÷ 10	PBT	FKM	no	2.7
PL000-40B-PF2*T	3/2 NO	8.0	0.30	0 ÷ 10	PBT	FKM	mono/bistable	2.7
PL000-40B-SF2*	3/2 NO	0.8	0.30	0 ÷ 10	PPS	FKM	no	2.2
PL000-401-PF2*	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	no	2.7
PL000-401-PF2*T	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7
PL000-401-SF2*	3/2 NO	1.1	0.34	0 ÷ 7	PPS	FKM	no	2.2
PL000-405-PF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	no	2.7
PL000-405-PF2*T	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	mono/bistable	2.7
PL000-405-SF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PPS	FKM	no	2.2

Series PL solenoid valve - 3/2-way NO IN-LINE



Supplied with:

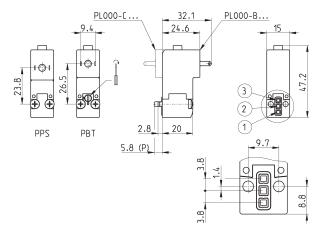
1x interface seal

 $2x\,M3x20$ screws for mounting on metal or

2x Ø3x23 screws for mounting on plastic (opt. P)

Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

- * add - VOLTAGE - FIXING (see CODING EXAMPLE)
 - 2 | EV05



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)
PL000-B01-PF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PBT	FKM	no	2.7
PL000-B01-SF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PPS	FKM	no	2.2

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Series PL solenoid valve - 3/2-way UNI



* add - VOLTAGE

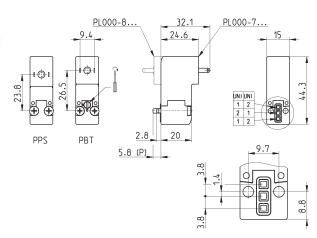
- FIXING (see CODING EXAMPLE) Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or

 $2x \emptyset 3x 23$ screws for mounting on plastic (opt. P)

Also available models for T amb. -50 \div 50 $^{\circ}\text{C}$ with NBR seals

Vacuum operation with max. pressure reduction





Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)
PL000-705-PF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	no	2.7
PL000-705-PF2*T	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	mono/bistable	2.7
PL000-705-SF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PPS	FKM	no	2.2

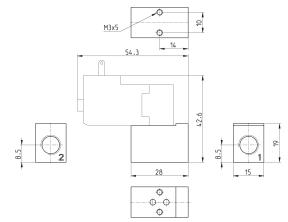


Single sub-base for 15mm size 2 way interface



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.

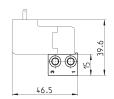
PDA01-1/8

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

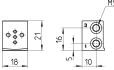


Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads









Mod. P001-02

Single manifold with rear 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

29.7	7 L1
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31.2	L2 NxL3

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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

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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

3 1 2 2 52.9 52.9	
29.7 L	
	•
Ø4.5	
31.2	
L2 NxL3	

* add
- MANIFOLD PORTS
(soo CODING EVAMBLE

A = groove for identification label

DIMENSIONS Mod. Positions L1 L2 L3 1 (P) 3 (R) P102-0 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* 87 18,5 16 G1/8 G1/8 P106-0* 6 117 103 18,5 16 G1/8 G1/8

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

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* add	
- MANIFOLD PORTS	
(see CODING EXAMPLE)	

A = groove for identification label

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

Manifold - double side valve - frontal outlets

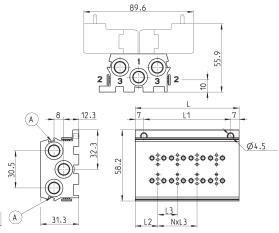


Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

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)

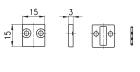
A = groove for identification label



Position valve cap



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



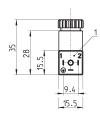
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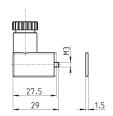
Mod.

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

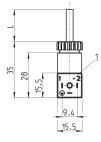
1 = 90° adjustable connector

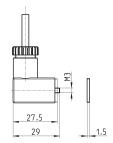
Connector Mod. 125-... - industrial std. 9.4 mm - 90° cable



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



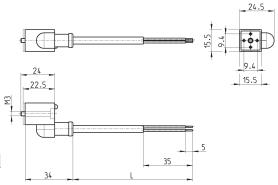


1 = 90° adjustable connector

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

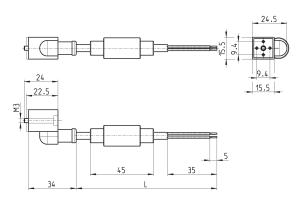




Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics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