

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
- Mounting on a single base (M5 connections) or on manifold (M5 or fittings 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 solenoid valves are available in the normally closed, normally open and universal versions. They can be mounted on single sub-bases or manifolds.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time Manual override Installation	2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI direct acting poppet type on subbase 0.81.6 mm 0.300.62 0 ÷ 3.510 bar 0 ÷ 50 °C (FKM) / -50 ÷ 50 °C (low temperature NBR on demand) filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas ON <10 ms - OFF <15 ms mono/bistable - PBT 3/2 versions only in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	brass - PBT - PPS FKM - NBR - EPDM (on demand) brass - stainless steel
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	6 110 V DC - other voltages on demand ±10% 1.2 3 W ED 100% industry standard connector (9.4 mm) IP65 with connector

Special versions available on demand



CODING	EXAMPLE
CODING	

	_					_			_	_	
PL	0	00	-	3	0	3	-	PL	2	3	
PL	SERIES										
0	1 = manifold	o-base (M5 only) or in - valves single side - valves double side	terface								
00	01 = single ba	.8 or Series PD interfa									
3	0 = manifolds 9 = 2/2-way - A = 2/2-way - 3 = 3/2-way - 5 = 3/2-way - 6 = 3/2-way - B = 3/2-way - C = 3/2-way - 7 = 3/2-way -	NO electric part revo NC NC electric part revol NO NO electric part revo NO IN-LINE* NO IN-LINE* electric p	ved by 180° lved by 180° part revolved by 1	180°							
0	B = series PD i MANIFOLD PO 2 = M5 thread 3 = tube Ø 3 n 4 = tube Ø 4 n 6 = M5 thread 7 = tube Ø 3 n	B interface - 3/2-way interface - 2/2-way RTS for P - PL - PN - W I - front outlets nm fittings - front out I - front outlets nm fittings - bottom c nm fittings - bottom c	lets lets outlets								
3	5 = Ø 1.5 mm	(NC version with pres									
PL	PF = PBT body SF = PPS body ST = PPS body		BR seals (on den	nand)							
2	ELECTRICAL CO 2 = industrial	NNECTION standard connection	(9.4 mm)								
3	VOLTAGE - POU 4 = 6 V DC - 1. 5 = 12 V DC - 1 6 = 24 V DC - 1 1 = 6 V DC - 2. 2 = 12 V DC - 2 3 = 24 V DC - 2	L.2 W - PA L.2 W - PA 7 W - PA 2.7 W - PA	OVERMOULDING N	MATERIAL		8 9 A B C	= 6 V DC - 1.2 W = 12 V DC - 1.2 W = 24 V DC - 1.2 W = 6 V DC - 2.2 W = 12 V DC - 2.2 W = 24 V DC - 2.2 W = 24 V DC - 2.2 W = 110 V DC - 3 W	V - PPS V - PPS - PPS V - PPS	pined with all PPS i	models)	
		ws for metal ews for plastics									
		RIDE red or not applicable table (push/turn type)								
	OPTIONS = standar OX1 = for use	d with oxygen (non vo	atile residual les	ss than 550 mg	g/m²)						

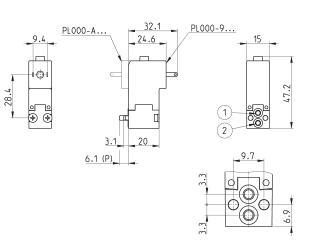
 \pm 3/2 NO IN-LINE version: the position of the ports 1 - 2 - 3 is identical to 3/2 NC version

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)

* add - VOLTAGE - FIXING (see CODING EXAMPLE)





Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-9B7-PF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	PBT	FKM	по	2.7	EV02
PL000-9B7-BF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	brass	FKM	по	2.7	EV02

Series PL solenoid valve - 3/2-way NC



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

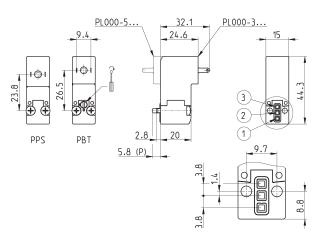
or 2x Ø3x23 screws for mounting on plastic (opt. P)

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

* add - VOLTAGE - FIXING (see CODING EXAMPLE)







Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-30B-PF2*	3/2 NC	0.8	0.30	0 ÷ 10	PBT	FKM	по	1.2	EV03
PL000-30B-PF2*T	3/2 NC	0.8	0.30	0÷10	PBT	FKM	mono/bistable	1.2	EV08
PL000-30B-SF2*	3/2 NC	0.8	0.30	0 ÷ 10	PPS	FKM	по	1.2	EV03
PL000-301-PF2*	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV03
PL000-301-PF2*T	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7	EV08
PL000-301-SF2*	3/2 NC	1.1	0.34	0 ÷ 8	PPS	FKM	по	2.2	EV03
PL000-303-PL2*	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM+NBR	по	2.7	EV03
PL000-303-PF2*T	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM	mono/bistable	2.7	EV08
PL000-306-PL2*	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM+NBR	ПО	2.7	EV03
PL000-306-PF2*T	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM	mono/bistable	2.7	EV08

PL000-4...

Series PL solenoid valve - 3/2-way NO

(opt. P)

EV05

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DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES PL SOLENOID VALVES



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal ٥г 2x Ø3x23 screws for mounting on plastic

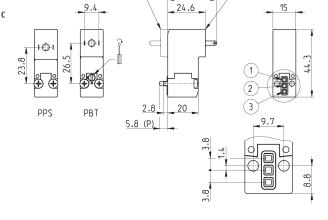
Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

EV09

w

* add - VOLTAGE - FIXING (see CODING EXAMPLE)

Z



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PL000-6...

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-40B-PF2*	3/2 NO	0.8	0.30	0 ÷ 10	PBT	FKM	ПО	2.7	EV05
PL000-40B-PF2*T	3/2 NO	0.8	0.30	0 ÷ 10	PBT	FKM	mono/bistable	2.7	EV09
PL000-40B-SF2*	3/2 NO	0.8	0.30	0 ÷ 10	PPS	FKM	по	2.2	EV05
PL000-401-PF2*	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV05
PL000-401-PF2*T	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7	EV09
PL000-401-SF2*	3/2 NO	1.1	0.34	0 ÷ 7	PPS	FKM	по	2.2	EV05
PL000-405-PF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	по	2.7	EV05
PL000-405-PF2*T	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	mono/bistable	2.7	EV09
PL000-405-SF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PPS	FKM	по	2.2	EV05

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

(opt. P)



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

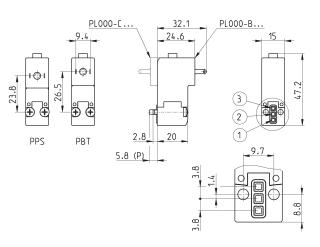
Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

E V 05

W

2

* add - VOLTAGE - FIXING (see CODING EXAMPLE)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-B01-PF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV05
PL000-B01-SF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PPS	FKM	по	2.2	EV05

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Series PL solenoid valve - 3/2-way UNI



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

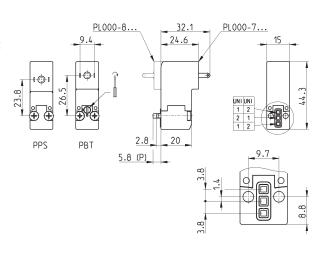
Also available models for T amb. -50 ÷ 50 °C with NBR seals

Vacuum operation with max. pressure reduction

* add - VOLTAGE - FIXING (see CODING EXAMPLE)

> 2 EV64 12(10) 1(3) 3(1)





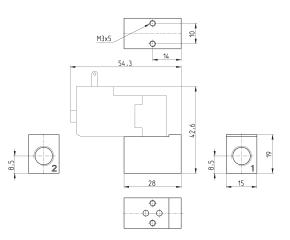
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-705-PF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	по	2.7	EV64
PL000-705-PF2*T	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	mono/bistable	2.7	EV92
PL000-705-SF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PPS	FKM	ПО	2.2	EV64

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



SERIES PL SOLENOID VALVES

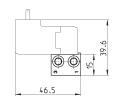
Mod.
PDA01-1/8

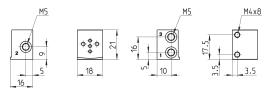
Single sub-base for 3-way solenoid valve size 15 mm



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





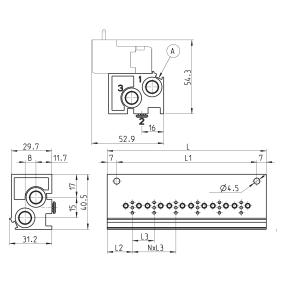
Mod. **P001-02**

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



DIMENSION	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

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Manifold - single side valve - frontal outlets

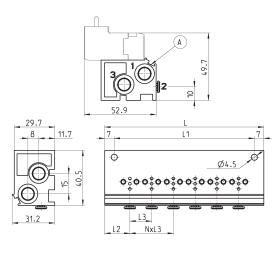


3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Manifold suitable for Series P - PL - PN - W

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

Material: anodized aluminium



A = groove for identification label

A = groove for identification label

* add - MANIFOLD PORTS (see CODING EXAMPLE)

* add - MANIFOLD PORTS (see CODING EXAMPLE)

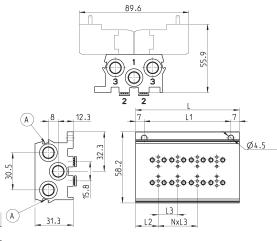
DIMENSIONS											
Mod.	Positions	L	L1	L2	L3	1(P)	3 (R)				
P102-0*	2	53	39	18,5	16	G1/8	G1/8				
P103-0*	3	69	55	18,5	16	G1/8	G1/8				
P104-0*	4	85	71	18,5	16	G1/8	G1/8				
P105-0*	5	101	87	18,5	16	G1/8	G1/8				
P106-0*	6	117	103	18.5	16	G1/8	G1/8				

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



DIMENSION	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					

Manifold - double side valve - frontal outlets

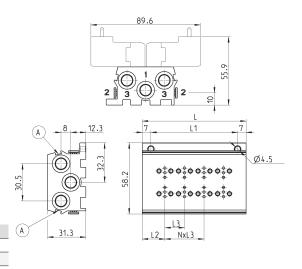


Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

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	
D212_0*	12	117	103	18 5	16	61/8	61/8	



- MANIFOLD PORTS (see CODING EXAMPLE)

* add

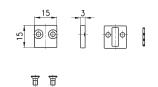
A = groove for identification label

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Position valve cap



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

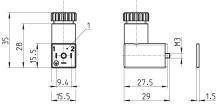


SERIES PL SOLENOID VALVES

Mod. P000-TP

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



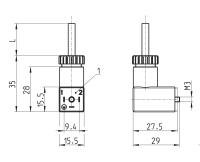


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connector
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

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

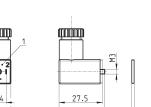


The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



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

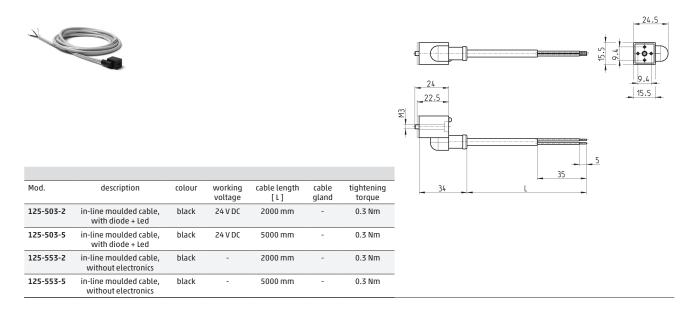
1 = 90° adjustable connector



1.5

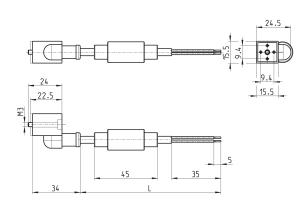


Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



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