# Series PN directly operated solenoid valves

3/2-way - Normally Closed (NC)



- » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø 3 and 4)
- » Compact design suitable for use in reduced mounting space

Please note that all Series PN 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 PN directly operated solenoid valves are available as 3/2-way NC. They are equipped with a manual override which makes the plants setting easier and they can be mounted on single bases or on manifolds.

### **GENERAL DATA**

# TECHNICAL FEATURES

Function 3/2 No

**Operation** direct acting poppet type

Pneumatic connections on subbase with ISO 12238 interface by means of screws

Nominal diameter 0.8 mm

Nominal flow 12 NI/min (air @ 6 bar  $\Delta$ P 1 bar)

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

Response time (ISO 12238) ON <10 msec - OFF <15 msec

**Installation** in any position

#### MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer Seals PU, NBR, (FKM on demand)

Internal parts stainless steel

#### **ELECTRICAL FEATURES**

**Voltage** 24 ... 205 V DC

Voltage tolerance ±10%

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100%

**Electrical connection** with industrial standard connector (9.4 mm)

Protection class IP65 with connector

#### Special versions available on demand

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CONTROL

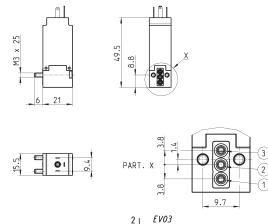
								00111	11021 001101	3111001011	ioia vaivo
CODI	NG EXAMF	LE									
								_	_	-	
PN	0	00	-	3	0	1	-	Р	5	3	
PN	SERIES										
0	BODY DESIGN 0 = single sub-b 1 = single manif 2 = double sideo	ase old									
00	NUMBER OF P 00 = interface 01 = single base 02 ÷ 99 = manif		tions								
3	NUMBER OF W 0 = manifold or 3 = 3-way NC	AYS - FUNCTION single base	IS:								
0	VALVE PORTS 0 = interface (fo	: r single valve only)	)								
	MANIFOLD PORTS (for Series W, P and PN):  2 = M5 side port  3 = Ø 3 tube side port  4 = Ø 4 tube side port  6 = M5 rear ports  7 = Ø 3 tube rear ports  8 = Ø 4 tube rear ports										
1		IETER - MAX PRE 0 bar (NC) 24V or									
Р	MATERIALS: P = PBT body, i	PU poppet seal									
5	ELECTRICAL C 5 = industrial sta	ONNECTION: andard connection	(9.4 mm)								
3	SOLENOID VO 3 = 24V DC 4 = 48V DC 6 = 110V DC 7 = 205V DC	LTAGE:									
		r the mounting on p			)						

2



3/2-way NC solenoid valve





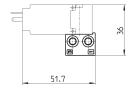


Mod.	Orifice Ø (mm)	kv (l/min)	Qn (NI/min)	Pressure min-max (bar)
PN000-301-P53	0.8	0.18	12	0 ÷ 10



Single sub-base











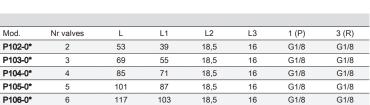


Mod.

P001-02



# Single manifold with rear outlets



29.7 -8 11.7 -7 L1 7 -7 ... L1 7 -7 ... L1 7 -7 ... L1 ... 7 -7 ...

\* = see the type of PORTS in the CODING EXAMPLE TABLE.

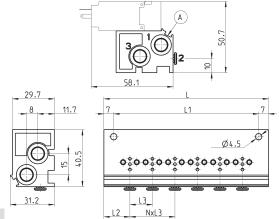
A = groove for electric connection identification

**C**₹



# Single manifold with front outlets

This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



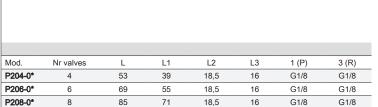
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

\* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



#### Double sided manifold with rear outlets



87

103

\* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



10

12

101

117

P210-0\*

P212-0\*

# Double sided manifold with front outlets

18,5

18,5

This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.

16

16

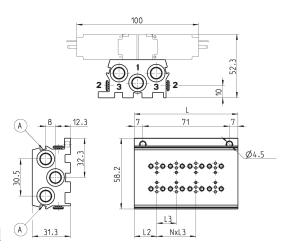
G1/8

G1/8

G1/8

G1/8

Mod.	Nr valves	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



\* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection

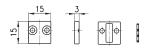
2



Excluder tap



Supplied with: 1x excluder tap 1x interface seal 2x screws

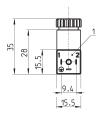


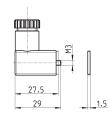
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Mod.



Industrial standard (9.4 mm) connector Mod. 125-...





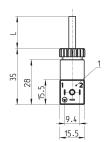
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

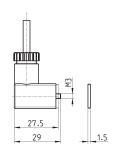
1 = 90° adjustable connector



# Industrial standard (9.4 mm) connector Mod. 125-... 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.





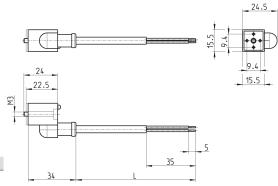
Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000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



# Industrial standard (9.4 mm) in-line connectors with cable

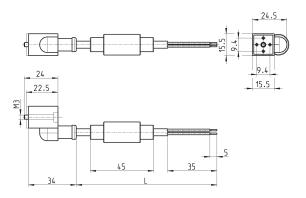




Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics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

# Industrial standard (9.4 mm) 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