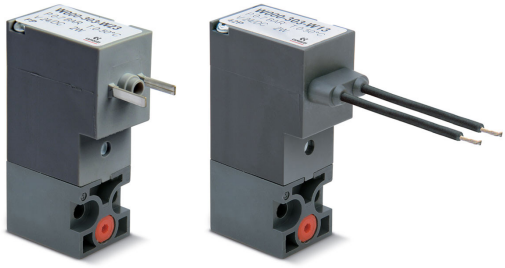
DIRECT ACTING SOLENOID VALVES
SERIES W

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



- Can be mounted on a single base (M5 connections) or on manifold (M5 connections or fittings for Ø3 or Ø4 tube).
- Electrical connection with flyling leads or in compliance to DIN EN 175 301-803-C standard

Series W directly operated solenoid valves are available as 3/2-way either NC or NO.
Both versions can be mounted on single sub-bases or manifolds and they are equipped with a monostable manual override.

General Data

TECHNICAL FEATURES	
Function	3/2 NC - 3/2 NO
Operation	Direct acting poppet type
Pneumatic connections	On subbase with ISO 15218 interface
Orifice diameter	0,8 ... 1,5 mm
Flow coefficient kv (l/min)	0,21 ... 0,54
Operating pressure	0 ÷ 5 ... 10 bar
Operating temperature	0 ÷ 50 °C
Fluid	Filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas
Response time when discharging (ISO 12238)	ON <10 ms - OFF <15 ms
Manual override	Monostable
Installation	In any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	PBT
Seals	PU - NBR - FKM - EPDM
Internal parts	Stainless steel
ELECTRICAL FEATURES	
Voltage	12 ... 48 V DC - Other voltages on demand
Voltage tolerance	±10%
Power consumption	2 W - 1 W (24 V DC only)
Duty cycle	ED 100%
Electrical connection	Connector DIN EN 175 301-803-C (8 mm) - 300 mm flying leads
Protection class	IP65 with connector

Special versions available on demand.

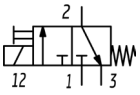
DIRECT ACTING SOLENOID VALVES
SERIES W - CODING EXAMPLES

Coding Example

W	0	00	-	3	0	3	-	W	2	3

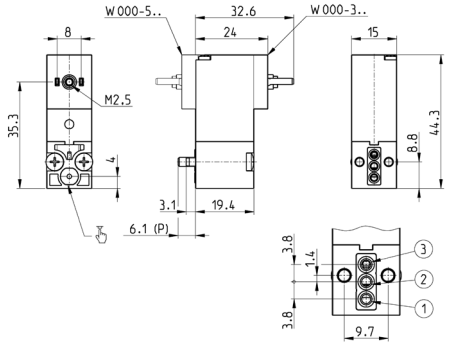
W	SERIES
0	BODY DESIGN 0 = single sub-base (only M5) or interface 1 = single manifold 2 = double manifold
00	NUMBER OF POSITIONS 00 = ISO 15218 interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions
3	NUMBER OF WAYS - FUNCTIONS 0 = manifold or single sub-base 3 = 3/2-way - NC 4 = 3/2-way - NO 5 = 3/2-way - NC electric part revolved by 180° 6 = 3/2-way - NO electric part revolved by 180°
0	VALVE PORTS 0 = ISO 15218 interface MANIFOLD PORTS for P - PL - PN - W Series 2 = M5 thread - front outlets 3 = tube Ø 3 mm fittings - front outlets 4 = tube Ø 4 mm fittings - front outlets 6 = M5 thread - bottom outlets 7 = tube Ø 3 mm fittings - bottom outlets 8 = tube Ø 4 mm fittings - bottom outlets
3	ORIFICE DIAMETER 1 = Ø 0.8 mm 3 = Ø 1.5 mm 5 = Ø 1.1 mm - NC versions 6 = Ø 1.5 mm - NC versions with voltage tolerance -25% ÷ +10% 5 = Ø 0.9 mm - NO versions
W	MATERIALS E = PBT body - EPDM seals F = PBT body - FKM seals W = PBT body - NBR - FKM - PU seals
2	ELECTRICAL CONNECTION 1 = 300 mm flying leads 2 = DIN EN 175 301-803-C (8 mm)
3	VOLTAGE - POWER CONSUMPTION 2 = 12 V DC - 2 W 3 = 24 V DC - 1 W - NC Ø 0.8 mm version only 3 = 24 V DC - 2 W 4 = 48 V DC - 2 W
	FIXING = fixing screws for metal P = fixing screws for plastic
	OPTIONS: = 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)

Solenoid valve - 3/2-way NC - DIN EN 175 301-803-C (8 mm)



EV08A

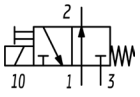
Supplied with:
1x interface seal
2x M 3x20 screws for mounting on metal
2x Ø 3x23 screws for mounting on plastic



Mod.	Function	Orifice Ø [mm]	Kv [l/min]	Min÷max pressure [bar]	Power [W]
W000-301-*23	3/2 NC	0,8	0,21	0 ÷ 10	1
W000-305-*2*	3/2 NC	1,1	0,39	0 ÷ 10	2
W000-303-*2*	3/2 NC	1,5	0,54	0 ÷ 7	2
W000-306-*2*	3/2 NC	1,5	0,39	0 ÷ 3	2
W000-501-*23	3/2 NC	0,8	0,21	0 ÷ 10	1
W000-505-*2*	3/2 NC	1,1	0,39	0 ÷ 10	2
W000-503-*2*	3/2 NC	1,5	0,54	0 ÷ 7	2
W000-506-*2*	3/2 NC	1,5	0,39	0 ÷ 3	2
W000-303-W22	3/2 NC	1,5	0,54	0 ÷ 7	2
W000-306-W23	3/2 NC	1,5	0,39	0 ÷ 3	2

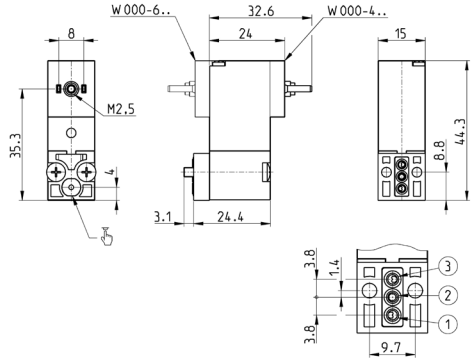
* add
-MATERIALS
-VOLTAGE (see CODING EXAMPLE)

Solenoid valve - 3/2-way NO - DIN EN 175 301-803-C (8 mm)



EV09A

Supplied with:
1x interface for NO with position ports
as per NC (ports 1 and 3 are inverted)
2x interface seals
2x M3x25 screws for mounting on metal



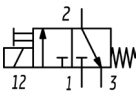
Mod.	Function	Orifice Ø [mm]	Kv [l/min]	Min÷max pressure [bar]	Power [W]
W000-405-*2*	3/2 NO	0,9	0,23	0÷10	2
W000-403-*2*	3/2 NO	1,5	0,39	0÷5	2
W000-605-*2*	3/2 NO	0,9	0,23	0÷10	2
W000-603-*2*	3/2 NO	1,5	0,39	0÷5	2

* add
-MATERIALS
-VOLTAGE (see CODING EXAMPLE)

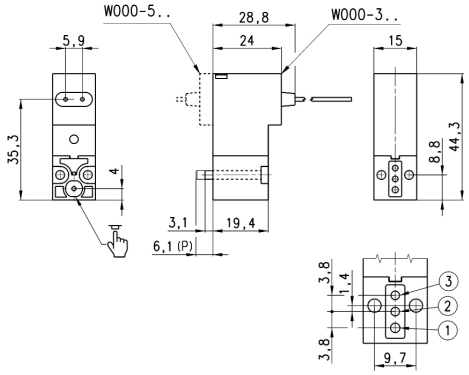
DIRECT ACTING SOLENOID VALVES
SERIES W - DIMENSIONS

Solenoid valve - 3/2-way NC - 300 mm flying leads

Supplied with:
1x interface seal
2x M 3x20 screws for mounting on metal
2x Ø 3x23 screws for mounting on plastic



EV08A

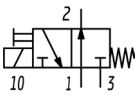


Mod.	Function	Orifice Ø [mm]	Kv [l/min]	Min÷max pressure [bar]	Power [W]
W000-301-*13*	3/2 NC	0,8	0,21	0÷10	1
W000-305-*1*	3/2 NC	1,1	0,39	0÷10	2
W000-303-*1*	3/2 NC	1,5	0,54	0÷7	2
W000-306-*1*	3/2 NC	1,5	0,39	0÷3	2
W000-501-*13	3/2 NC	0,8	0,21	0÷10	1
W000-505-*1*	3/2 NC	1,1	0,39	0÷10	2
W000-503-*1*	3/2 NC	1,5	0,54	0÷7	2
W000-506-*1*	3/2 NC	1,5	0,39	0÷3	2
W000-303-W12	3/2 NC	1,5	0,54	1,5	2
W000-305-W12	3/2 NC	1,1	0,39	0÷10	2

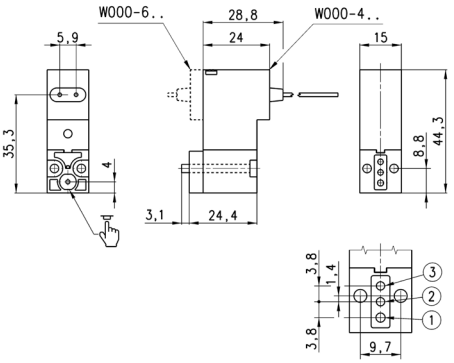
* add
-MATERIALS
-VOLTAGE (see CODING EXAMPLE)

Solenoid valve - 3/2-way NO - 300 mm flying leads

Supplied with:
1x interface for NO with position ports as per NC
(ports 1 and 3 are inverted)
2x interface seals
2x M3x25 screws for mounting on metal



EV09A



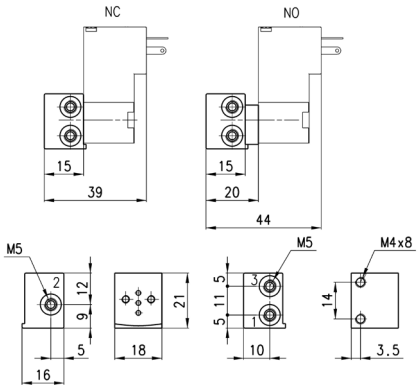
Mod.	Function	Orifice Ø [mm]	Kv [l/min]	Min÷max pressure [bar]	Power [W]
W000-405-*1*	3/2 NO	0,9	0,23	0÷10	2
W000-403-*1*	3/2 NO	1,5	0,39	0÷5	2
W000-605-*1*	3/2 NO	0,9	0,23	0÷10	2
W000-603-*1*	3/2 NO	1,5	0,39	0÷5	2

* add
-MATERIALS
-VOLTAGE (see CODING EXAMPLE)

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

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

Material: anodized aluminium
Connections: M5 threads

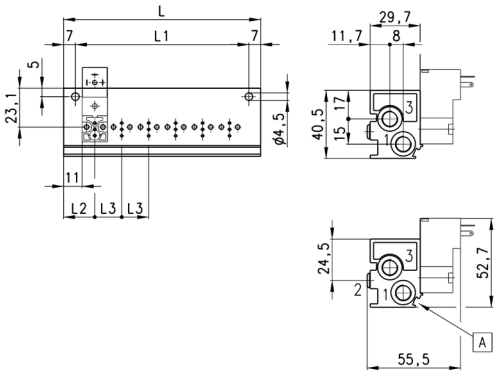


Mod.
P001-02

Manifold - single side valve - bottom outlets

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

Material: anodized aluminium



A= groove for identification label

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

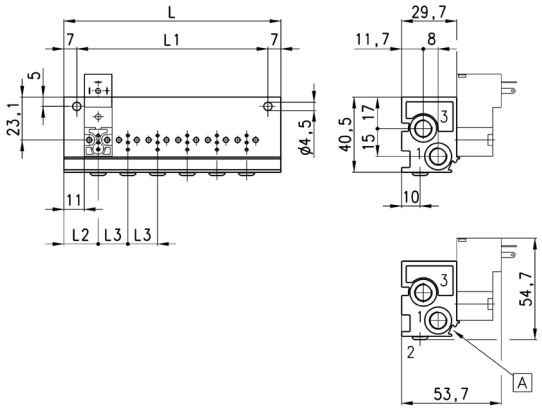
* Add manifold ports (see Coding example)

Manifold - single side valve - frontal outlets

Manifold suitable for 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



A= groove for identification label

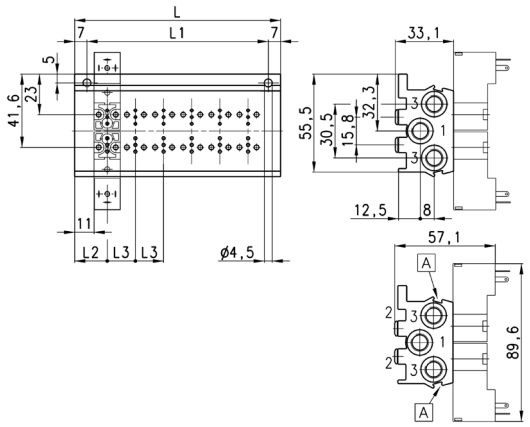
Mod.	Positions	L	L1	L2	L3	1 [P]	3 [R]
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

* Add manifold ports (see Coding example)

Manifold - double side valve - bottom outlets

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

Material: anodized aluminium



A = groove for identification label

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

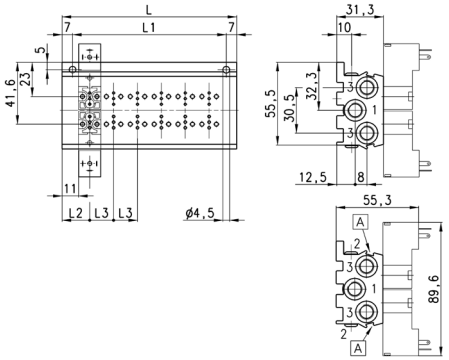
* Add manifold ports (see Coding example)

Manifold - double side valve - frontal outlets

Manifold suitable for 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

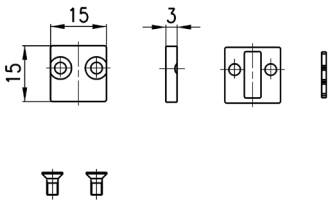


A = groove for identification label

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)

Position valve cap

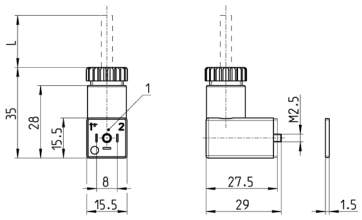


Supplied with:
1x position valve cap
1x interface seal
2x screws

Mod.
P000-TP

Connectors Mod. 126 industrial std. 8 mm

DIN EN 175 301-803-c



1 = 90° adjustable connector

Mod.	Description	Colour	Working voltage	Cable length (L)	Cable gland	Tightening torque
126-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
126-800	connector, without electronics	black	-	-	PG7	0.3 Nm
126-701	connector, varistor + Led	transparent	24 V AC/DC	-	PG7	0.3 Nm