

Series K8 directly operated solenoid valves

2/2-way - 3/2-way

Normally Closed (NC) and Normally Open (NO)

2

CONTROL



- » Compact design
- » High performances
- » Manifold mounting
- » Long life

Thanks to their particular design these valves can be used in applications where very compact solutions are required as well as high performances.

Series K8 is used to control actuators or very small devices and it is suitable for portable equipments thanks to low power consumption, reduced weight and dimensions.

Series K8 directly operated solenoid valves are available as 2/2 or 3/2-way either NC or NO versions.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	manifold cartridge
Nominal diameter	0.5 - 0.7 mm
Nominal flow	see Kv
Kv (l/min)	0.08 - 0.15
Operating pressure	-1 ÷ 3 ... 7 bar
Operating temperature	0 ÷ +50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time (ISO 12238)	ON <10 msec – OFF <10 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	brass - stainless steel - PBT technopolymer
Seals	FKM
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - 6 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	0.6 W
Duty cycle	ED 100%
Electrical connection	2 Pin 0.5 x 0.5 spacing 4 mm
Protection class	IP00

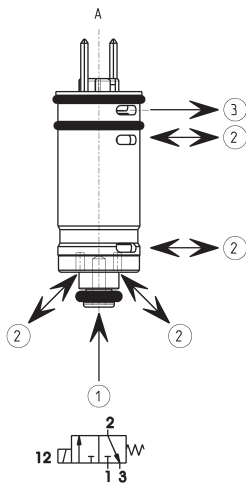
Special versions available on demand

CODING EXAMPLE

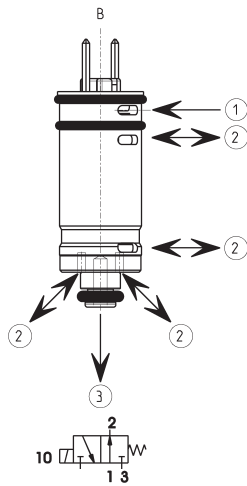
K8	0	00	-	3	0	3	-	K	2	3
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K8	SERIES
0	BODY DESIGN: 0 = single valve
00	NUMBER OF POSITIONS: 00 = valve without seat
3	NUMBER OF WAYS - FUNCTIONS: 0 = single base 3 = 3-way NC 4 = 3-way NO 5 = 2-way NC 6 = 2-way NO
0	MATERIALS AND SEALS: 0 = poppet, FKM seals
3	NOMINAL DIAMETER: 3 = Ø 0.5 mm (working pressure 1 ÷ 7 bar) 6 = Ø 0.5 mm (working pressure -1 ÷ 4 bar) 5 = Ø 0.7 mm (working pressure -1 ÷ 3 bar)
K	MATERIALS: K = stainless steel body, brass cage
2	ELECTRICAL CONNECTION: 2 = pin interface size 4 mm
3	VOLTAGE: 1 = 6V DC (0.6 W) 2 = 12V DC (0.6 W) 3 = 24V DC (0.6 W)

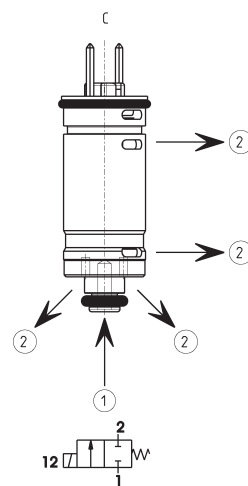
AVAILABLE FUNCTIONS



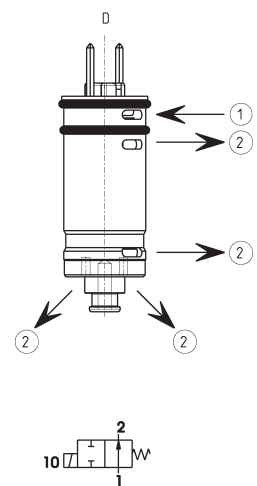
A = 3/2-way valve NC



B = 3/2-way valve NO



C = 2/2-way valve NC



D = 2/2-way valve NO

1 = supply
2 = inlet
3 = exhaust

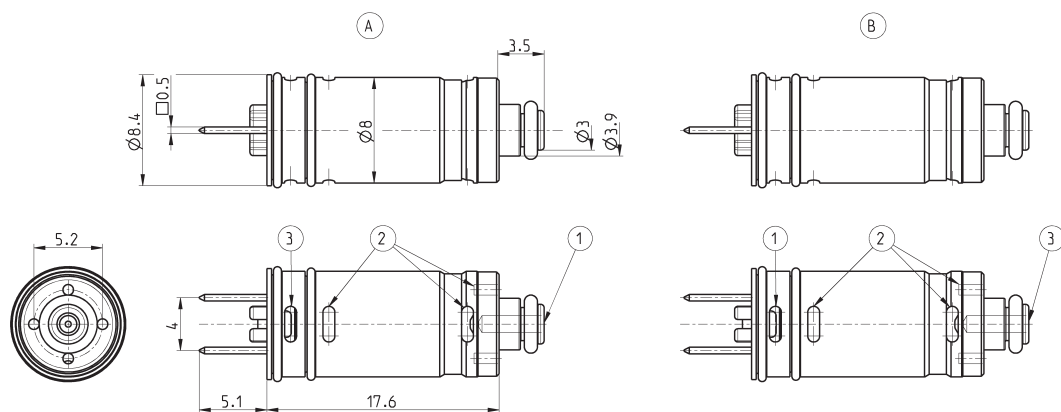
8 mm solenoid valve, 2/2 and 3/2-way NC (A) and NO (B)

* = put in NUMBER OF WAYS - FUNCTIONS (see CODING EXAMPLE)

** = put in VOLTAGE (see CODING EXAMPLE)



LEGEND:
1 = supply
2 = inlet
3 = exhaust

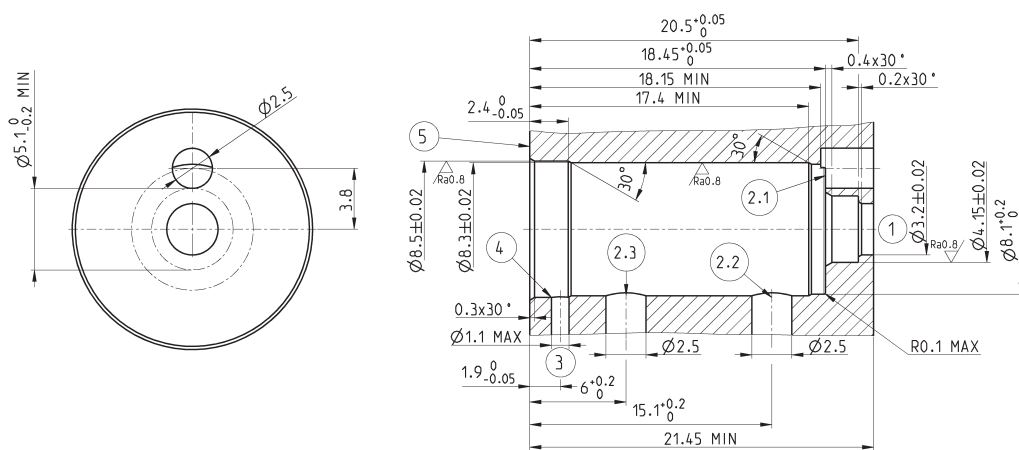


Mod.	Orifice Ø (mm)	Kv (l/min)	Min/max pressure (bar)
K8000-03-K2**	0.5	0.08	1 ÷ 7
K8000-06-K2**	0.5	0.08	-1 ÷ 4
K8000-05-K2**	0.7	0.15	-1 ÷ 3

8 mm solenoid valve seat, 2/2 and 3/2-way NC and NO

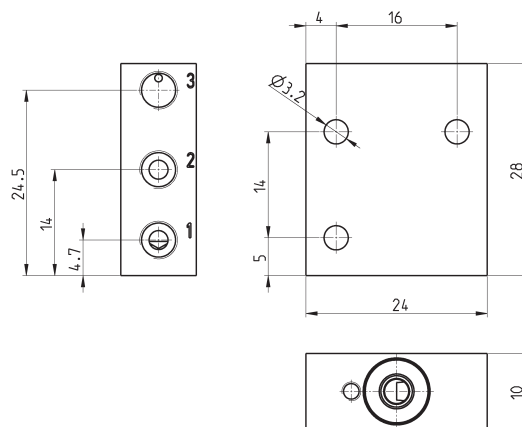
Note: better performances can be achieved if the valve seat holes are in line with the respective valve holes.

LEGEND:
1 = supply
2.1 = advised inlet for NC
2.2 = advised inlet for NC
2.3 = advised inlet for NO
3 = exhaust
4 = free from burrs
5 = surface to be aligned with the upper surface of the valve reinforcement



Single body for Series K8 solenoid valve

Material: anodized aluminium
Pneumatic connections: M5 threads



Mod.

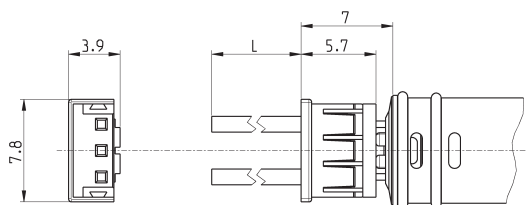
K8303/14C

2

CONTROL

Connector Mod. 120-..

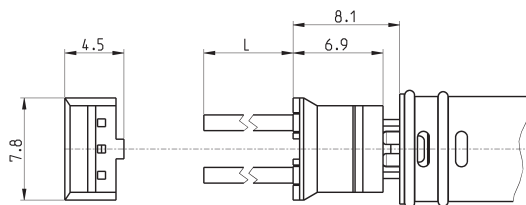
Cable section: 0.25 mm²
Cable external diameter: 1.2 mm
Material for the cable insulation: PVC



Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimped cable	white	600	crimping

Connector with flying leads Mod. 120-J803

Flying leads section: 0.25 mm²
Flying lead external diameter: 1.2 mm
Material for the flying leads insulation: PVC



New

Mod.	description	colour	L = cable length (mm)	cable holding
120-J803	crimped cable connector J	white	300	crimping

Series K8B pilot operated solenoid valves

New

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

2

CONTROL



- » Compact design
- » High flow
- » Manifold mounting
- » Long life

Thanks to their low power consumption and light weight Series K8B solenoid valves are particularly suitable for use with portable equipment too.

Series K8B pilot operated solenoid valves represent the evolution of Series K8 which has been equipped with a flow amplifier. Their particular design makes these valves ideal for use in applications requiring very compact solutions and high flow.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO
Operation	pilot operated poppet type
Pneumatic connections	manifold cartridge - M7 threads - on subbase with M3 screws
Nominal diameter	3.6 mm
Nominal flow	180 Nl/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	2.8
Operating pressure	1 ÷ 7 bar
Operating temperature	0 ÷ +50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time (ISO 12238)	ON <15 msec – OFF <15 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	brass - stainless steel - PBT technopolymer - aluminium
Seals	FKM
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - 6 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	0.6 W
Duty cycle	ED 100%
Electrical connection	2 Pin 0.5 x 0.5 pitch 4mm - JST connector with flying leads L = 300mm
Protection class	IP00

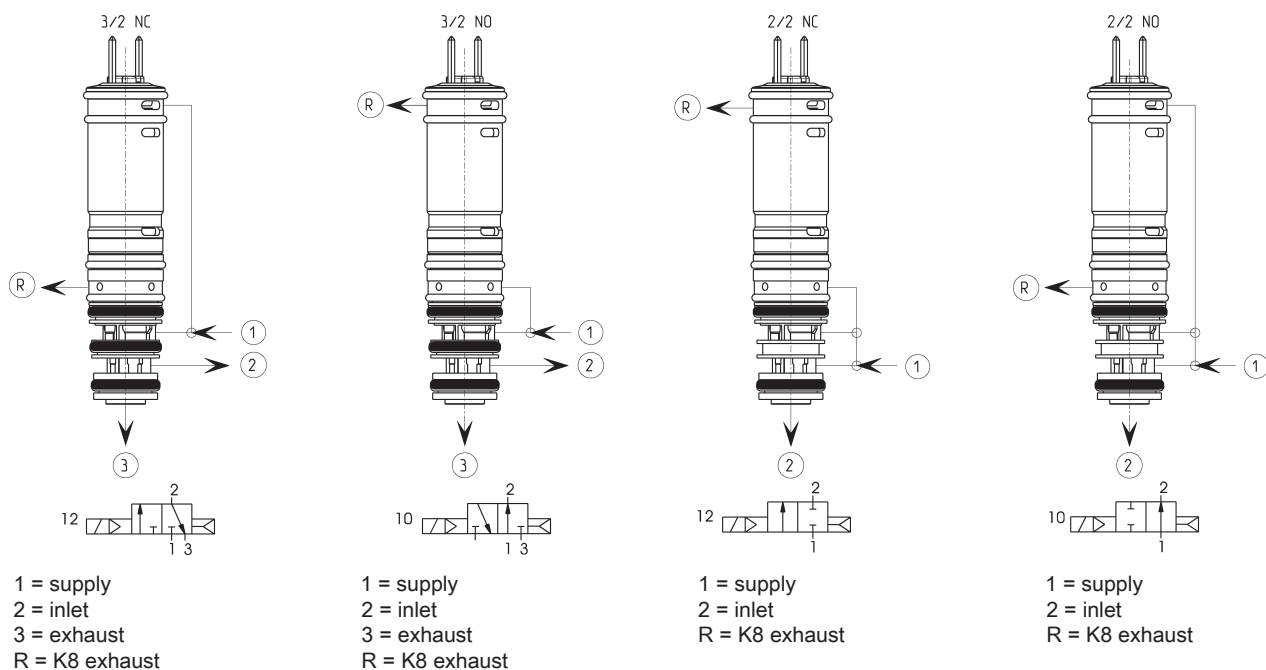
Special versions available on demand

CODING EXAMPLE

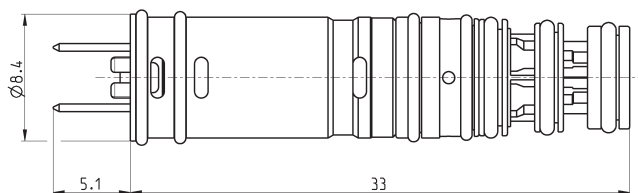
K8B	C5	4	00	-	D4	3	2	N	-	N	00	1A	C003
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K8B	SERIES
C5	BODY DESIGN: C0 = body with interface for subbase C3 = threaded body C5 = cartridge
4	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC 2 = 2/2-way NO 4 = 3/2-way NC 5 = 3/2-way NO
00	PNEUMATIC CONNECTIONS: 00 = cartridge 03 = M7 18 = K8B-type interface, 2-way 19 = K8B-type interface, 3-way
D4	NOMINAL DIAMETER: D4 = Ø 3.6mm
3	SEALS MATERIALS: 3 = FKM
2	BODY MATERIALS: 1 = aluminium 2 = brass
N	MANUAL OVERRIDE: N = not foreseen
N	FIXING ACCESSORIES: N = not foreseen P = screws for plastics M = screws for metal
00	OPTION: 00 = no option
1A	ELECTRICAL CONNECTION: 1A = only pins, pitch 4mm 1B = JST connector, pitch 4mm
C003	VOLTAGE - POWER CONSUMPTION: C001 = 6V DC (0.6 W) C002 = 12V DC (0.6 W) C003 = 24V DC (0.6 W)

AVAILABLE FUNCTIONS



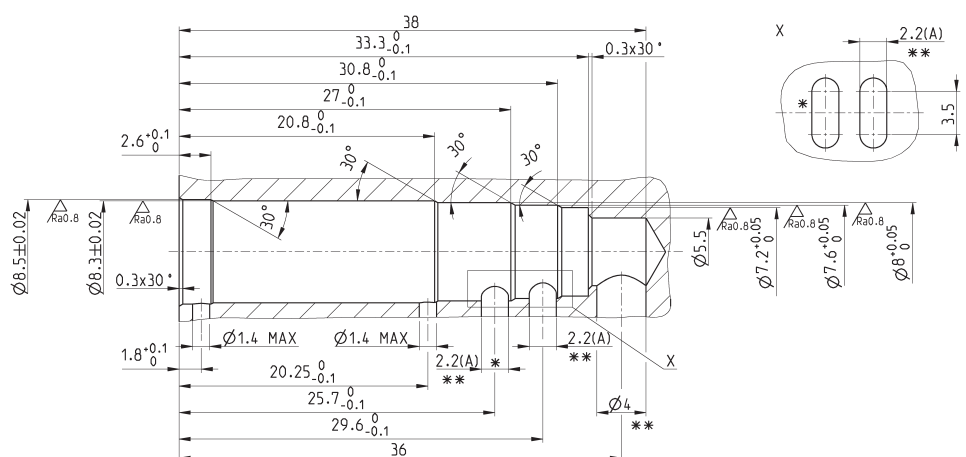
8 mm solenoid valve, 2/2 and 3/2-way NC and NO



Mod.	Function	NOTE
K8BC5100-D432N-N001A*	2/2 NC	* enter the required voltage (see the coding example)
K8BC5200-D432N-N001A*	2/2 NO	* enter the required voltage (see the coding example)
K8BC5400-D432N-N001A*	3/2 NC	* enter the required voltage (see the coding example)
K8BC5500-D432N-N001A*	3/2 NO	* enter the required voltage (see the coding example)

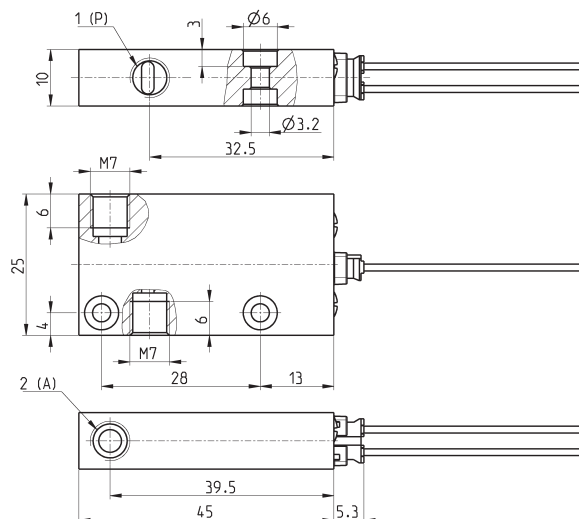
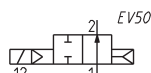
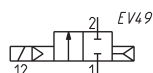
8 mm solenoid valve seat, 2/2 and 3/2-way NC and NO

* = FOR THE 2/2 VERSION THIS OPERATION HAS NOT TO BE PERFORMED



Body with threaded ports, 2/2-way NC and NO

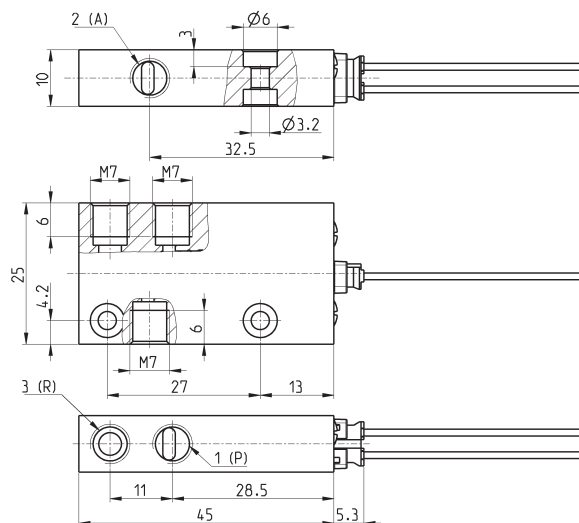
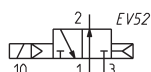
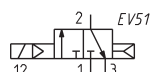
Supplied with:
1x connector with flying leads
Mod. 120-J803 (300mm)



Mod.	Function	Symbol	NOTE
K8BC3103-D431N-N001B*	2/2 NC	EV49	* enter the required voltage (see the coding example)
K8BC3203-D431N-N001B*	2/2 NO	EV50	* enter the required voltage (see the coding example)

Body with threaded ports, 3/2-way NC and NO

Supplied with:
1x connector with flying leads
Mod. 120-J803 (300mm)

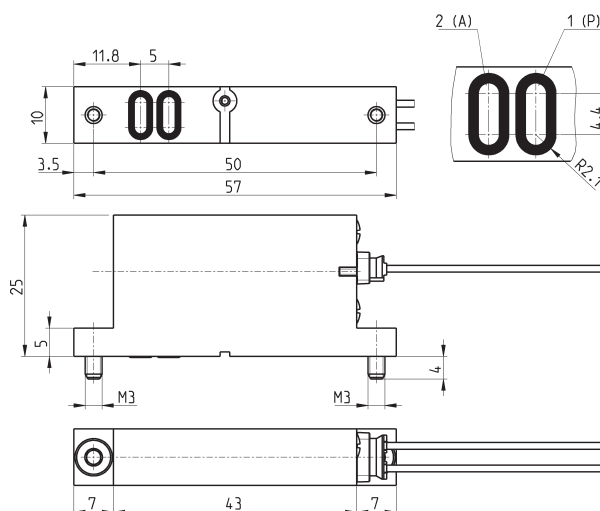
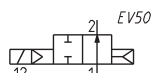
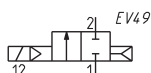


Mod.	Function	Symbol	NOTE
K8BC3403-D431N-N001B*	3/2 NC	EV51	* enter the required voltage (see the coding example)
K8BC3503-D431N-N001B*	3/2 NO	EV52	* enter the required voltage (see the coding example)

Body for subbase, 2/2-way NC and NO



Supplied with:
 1x connector with flying leads
 Mod. 120-J803 (300mm)
 2x interface seals
 2x screws M3x6 UNI 5931
 (for M version)
 or
 2x screws M3x6 UNI 10227
 (for P version)

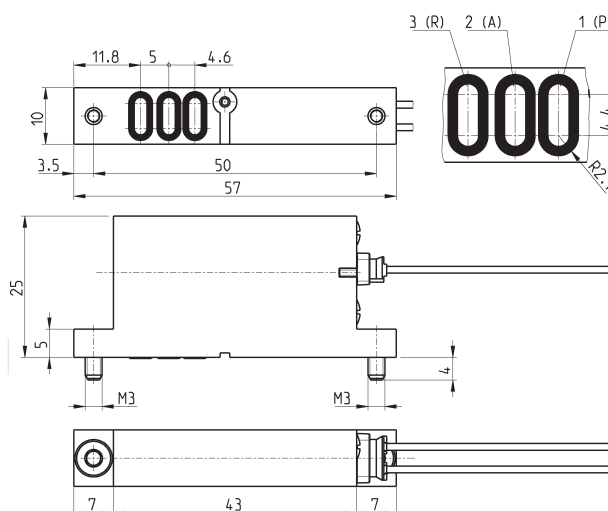
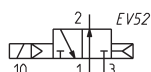
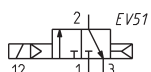


Mod.	Function	Symbol	NOTE
K8BC0118-D431N-*001B**	2/2 NC	EV49	* enter the type of screws - ** enter the required voltage (see the coding example)
K8BC0218-D431N-*001B**	2/2 NO	EV50	* enter the type of screws - ** enter the required voltage (see the coding example)

Body for subbase, 3/2-way NC and NO



Supplied with:
 1x connector with flying leads
 Mod. 120-J803 (300mm)
 3x interface seals
 2x screws M3x6 UNI 5931
 (for M version)
 or
 2x screws M3x6 UNI 10227
 (for P version)

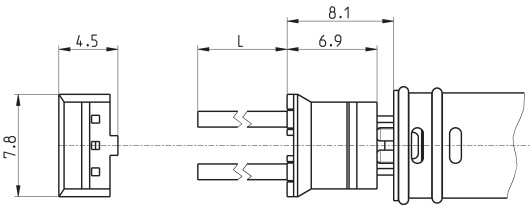


Mod.	Function	Symbol	NOTE
K8BC0419-D431N-*001B**	3/2 NC	EV51	* enter the type of screws - ** enter the required voltage (see the coding example)
K8BC0519-D431N-*001B**	3/2 NO	EV52	* enter the type of screws - ** enter the required voltage (see the coding example)

New

Connector with flying leads Mod. 120-J803

Flying leads section: 0.25 mm²
Flying lead external diameter: 1.2 mm
Material for the flying leads insulation: PVC

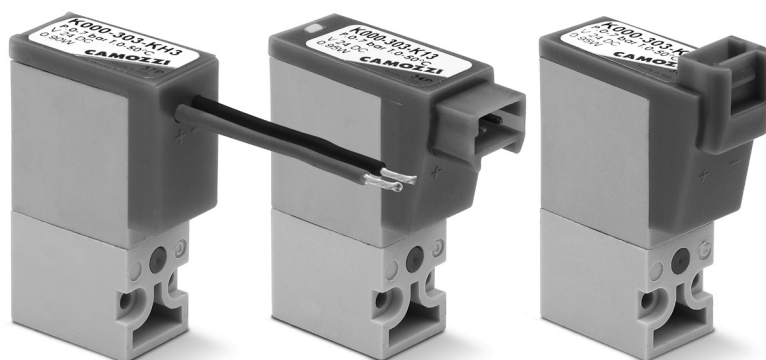


Mod.	description	colour	L = cable length (mm)	cable holding
120-J803	crimped cable connector J	white	300	crimping

Series K directly operated solenoid valves

3/2-way NC and NO.

They can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports).



Series K directly operated solenoid valves are available as 3/2-way either NC or NO versions. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a manual override which makes the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	on subbase by means of screws
Nominal diameter	0.65 mm
Nominal flow	10 Nl/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.15
Operating pressure	0 ÷ 5 (NO) ... 7 bar (NC)
Operating temperature	0 ÷ +50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time	ON <10 msec – OFF <10 msec
Manual override	monostable button
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PBT technopolymer
Seals	NBR (FKM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - 6 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	0.9 W, 0.95 W with LED
Duty cycle	ED 100%
Electrical connection	connector - thin cables L = 300 mm
Protection class	IP50

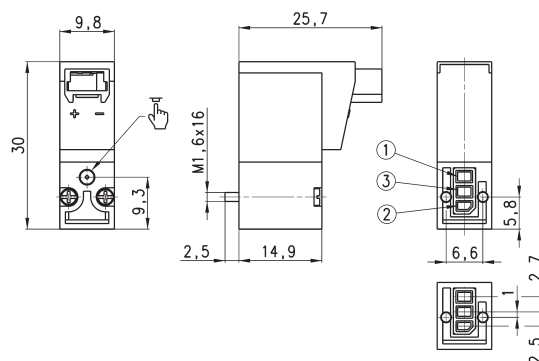
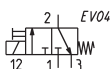
Special versions available on demand

CODING EXAMPLE

K	0	00	-	3	0	3	-	K	2	3	
K	SERIES										
0	BODY DESIGN: 0 = single sub-base (only M5) or interface 1 = manifold										
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (only M5) 02 + 99 = manifold number of positions										
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC 4 = 3-way NO 5 = 3-way NC electric part revolved by 180° 6 = 3-way NO electric part revolved by 180°										
0	PORTS: 0 = interface 2 = M5 side outlets										
3	NOMINAL DIAMETER: 3 = \varnothing 0,65										
K	MATERIALS: K = PBT body, HNBR poppet F = PBT body, FKM poppet										
2	ELECTRICAL CONNECTION: 1 = 90° connection with protection and led 2 = 90° connection with protection 3 = 90° connection B = in-line connection with protection and led C = in-line connection with protection D = in-line connection F = cable (300mm) with protection and led G = cable (300mm) with protection H = cable only (300mm)										
3	SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC										
	FIXING: = standard version for mounting on plastic interface M = with screws for mounting on metal interfaces (on demand).										

3/2-way NC solenoid valve - 90° electrical connection

Supplied with:
 1x interface seal
 2x screws



Mod.

K000-303-K13

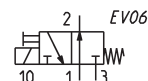
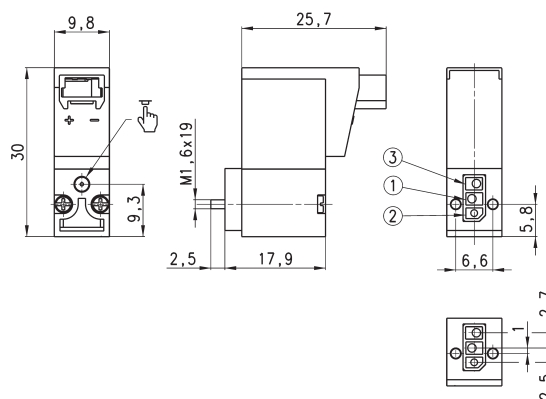
K000-303-K23

K000-303-K33



3/2-way NO solenoid valve - 90° electrical connection

Supplied with:
 1x interface for NO version
 (connections 1 and 3 are inverted)
 2x interface seals for NO version
 2x screws



The interface for NO version is required if the valve is mounted on a manifold. In case of a single or

customised base, on the contrary, it is necessary to use screws M1,6x16 (mod. K303/61).

Mod.

K000-403-K13

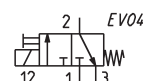
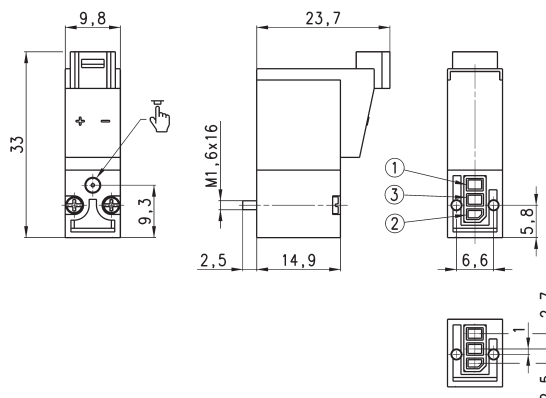
K000-403-K23

K000-403-K33



3/2-way NC solenoid valve - in-line electrical connection

Supplied with:
 1x interface seal
 2x screws



Mod.

K000-303-KB3

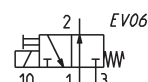
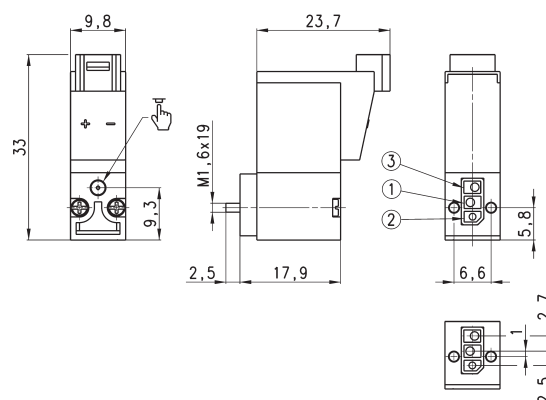
K000-303-KC3

K000-303-KD3



3/2-way NO solenoid valve - in-line electrical connection

Supplied with:
 1x interface for NO version
 (connections 1 and 3 are inverted)
 2x interface seals for NO version
 2x screws



The interface for NO version is required if the valve is mounted on a manifold. In case of a single or

customised base, on the contrary, it is necessary to use screws M1,6x16 (mod. K303/61).

Mod.

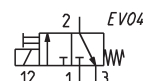
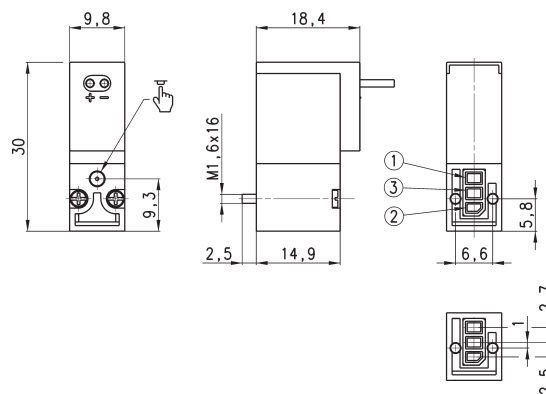
K000-403-KB3

K000-403-KC3

K000-403-KD3

3/2-way NC solenoid valve with cable 300 mm

Supplied with:
1x interface seal
2x screws



Mod.

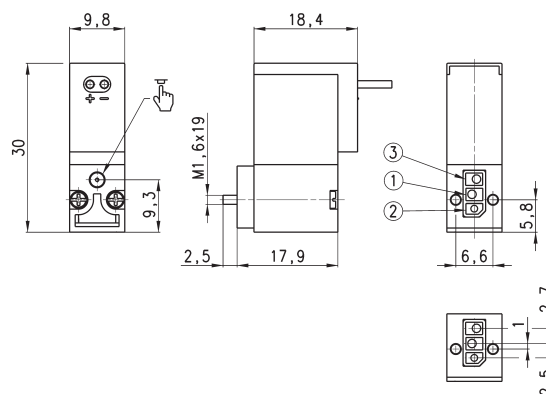
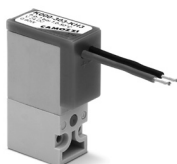
K000-303-KF3

K000-303-KG3

K000-303-KH3

3/2-way NO solenoid valve (with cable 300 mm)

Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals for NO version
2x screws



Mod.

K000-403-KF3

K000-403-KG3

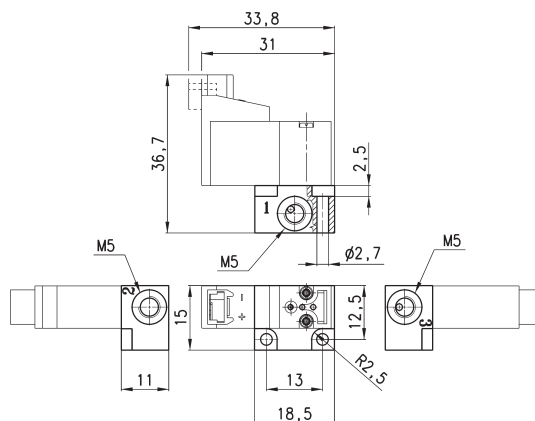
K000-403-KH3

The interface for NO version is required if the valve is mounted on a manifold. In case of a single or

customised base, on the contrary, it is necessary to use screws M1,6x16 (mod. K303/61).

Single sub-base

Note: use solenoid valves with mounting screws on metal interfaces (see codification).



Mod.

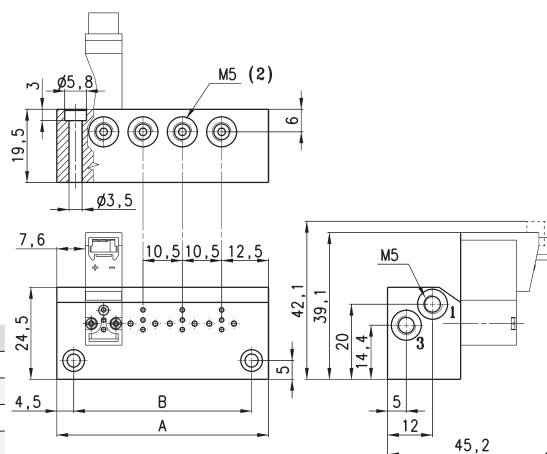
K001-02



Manifold Mod. K1**-02

** Number of positions
With side outlets and conveyed inlet and exhaust.

Note: use solenoid valves with mounting screws on metal interfaces (see codification).

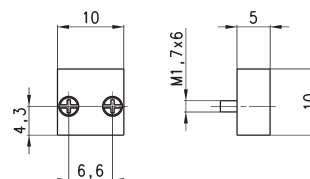


Mod.	A	B	Number of ports
K102-02	35.5	26.5	2
K103-02	46	37	3
K104-02	56.5	47.5	4
K105-02	67	58	5
K106-02	77.5	68.5	6
K107-02	88	79	7
K108-02	98.5	89.5	8
K109-02	109	100	9
K110-02	119.5	110.5	10



Excluder tap

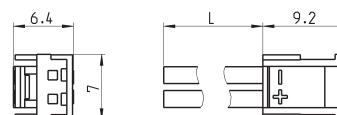
Supplied with:
1x excluder tap
1x interface seal
2x screws



Mod.
K000-TP



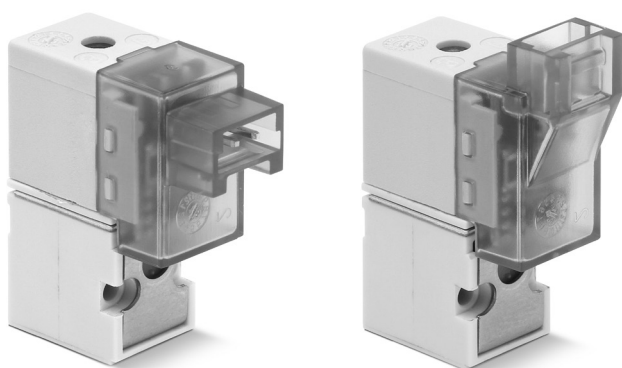
Connector Mod. 121-8..



Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

Series KN directly operated solenoid valves

3/2-way Normally Closed (NC)



- » Low energy consumption
- » Compact design
- » ISO 15218 Interface

Thanks to its low energy consumption and to its compact design, the miniaturized KN solenoid valve can be used in industrial and scientific applications.

Series KN directly operated solenoid valves are available as 3/2-way NC version.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC
Operation	direct acting poppet type
Pneumatic connections	on subbase, ISO 15218 interface by means of screws
Nominal diameter	0.65 mm
Nominal flow	10 NI/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.15
Operating pressure	0 ÷ 7 bar
Operating temperature	0 ÷ +50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time	ON <10 msec - OFF <10 msec
Manual override	monostable button
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PBT technopolymer
Seals	HNBR, NBR (FKM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	1.3 W (inrush), 0.25 W (holding)
Duty cycle	ED 100%
Electrical connection	connector
Protection class	IP50

Special versions available on demand

CODING EXAMPLE

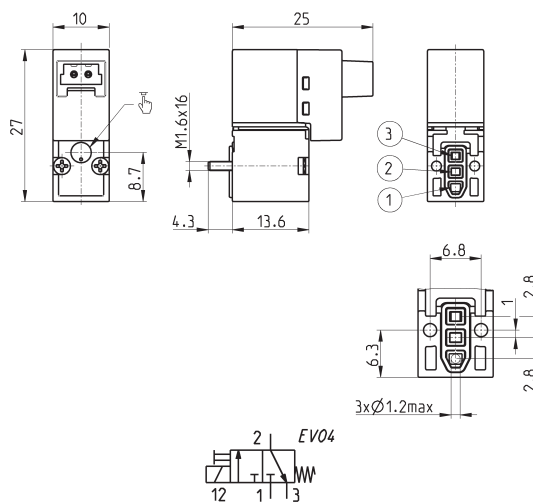
KN	0	00	-	3	0	3	-	K	1	3	
----	---	----	---	---	---	---	---	---	---	---	--

KN	SERIES
0	BODY DESIGN: 0 = single valve
00	NUMBER OF POSITIONS: 00 = interface
3	NUMBER OF WAYS - FUNCTIONS: 3 = 3/2-way NC
0	PORTS: 0 = single valve
3	NOMINAL DIAMETER: 3 = \varnothing 0.65
K	MATERIALS: K = PBT body, HNBR poppet seal, NBR other seals F = PBT body, FKM poppet seal, NBR other seals (FKM upon request)
1	ELECTRICAL CONNECTION: 1 = 90° connection with protection and led B = in-line connection with protection and led
3	SOLENOID VOLTAGE: 2 = 12V DC 3 = 24V DC - 1.3W (inrush), 0.25W (holding) other voltages are available upon request
	FIXING: = with screws for plastics (standard) M = with screws for metal

3/2 way NC solenoid valve - right-angle electrical connection



Supplied with:
 1x interface seal
 2x screws M1.6x16 UNI 10227
 (for standard version) or
 2x screws M1.6x16 UNI 7687 (for M version)



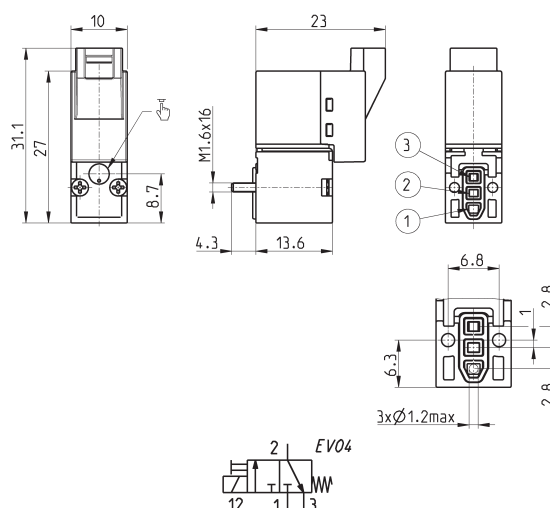
Mod.

KN000-303-K13

3/2 way NC solenoid valve - in-line electrical connection



Supplied with:
 1x interface seal
 2x screws M1.6x16 UNI 10227
 (for standard version) or
 2x screws M1.6x16 UNI 7687 (for M version)



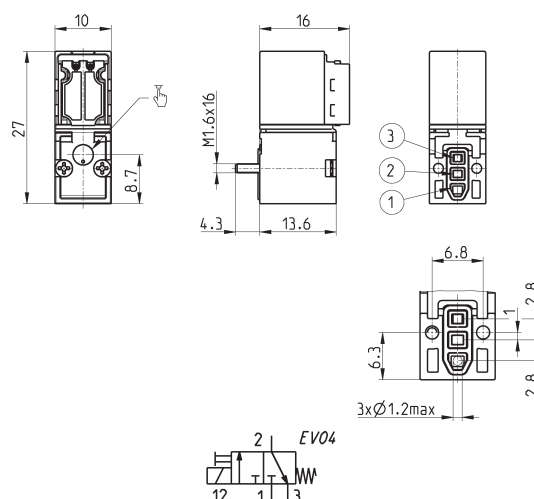
Mod.

KN000-303-KB3

Solenoid valve Mod. KN000-303-KY3N - spare part for Series Y



Supplied with:
 1x interface seal
 2x screws M1.6x16 UNI 10227

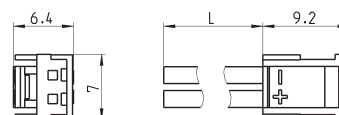
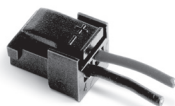


Mod.

KN000-303-KY3N

Connector Mod. 121-8..

This connector can't be used with the solenoid valve
 Mod. KN000-303-KY3N.

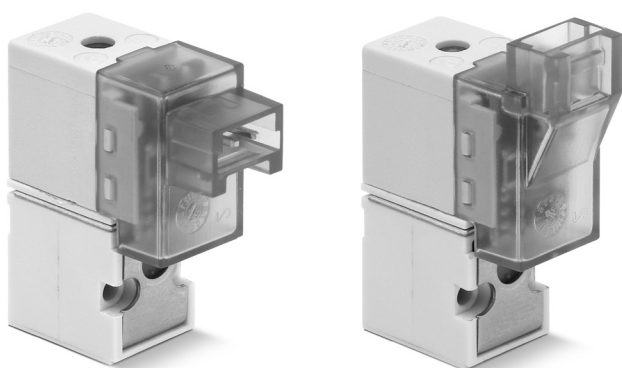


Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

Series KN High Flow directly operated solenoid valves

New

3/2-way Normally Closed (NC)



- » Low energy consumption
- » Compact design
- » High Flow
- » ISO 15218 Interface

Thanks to its low energy consumption and to its compact design, Series KN High Flow solenoid valve can be used in industrial and scientific applications.

Series KN High Flow directly operated solenoid valves are available as 3/2-way NC version.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC
Operation	direct acting poppet type
Pneumatic connections	on subbase, ISO 15218 interface by means of screws
Nominal diameter	1.1 mm
Nominal flow	25 NI/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.39
Operating pressure	0 ÷ 3 ... 7 bar
Operating temperature	0 ÷ +50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time	ON <10 msec - OFF <10 msec
Manual override	monostable button
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PBT technopolymer
Seals	FKM, NBR (FKM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - other voltages on demand
Voltage tolerance	4 W (inrush), 1 W (holding)
Power consumption	ED 100%
Duty cycle	connector
Electrical connection	IP50
Protection class	

Special versions available on demand

CODING EXAMPLE

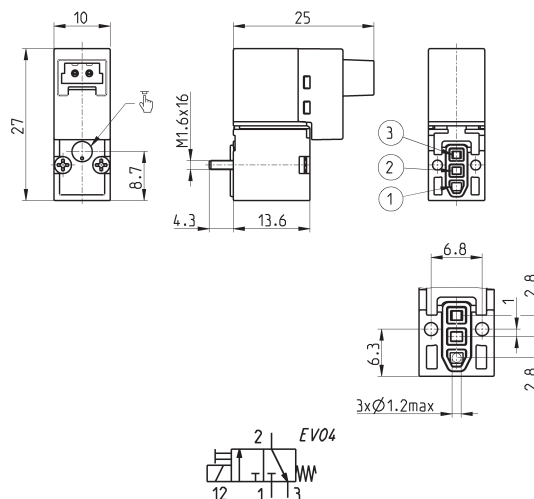
KN	0	00	-	3	0	5	-	F	1	8	
----	---	----	---	---	---	---	---	---	---	---	--

KN	SERIES										
0	BODY DESIGN: 0 = single valve										
00	NUMBER OF POSITIONS: 00 = interface										
3	NUMBER OF WAYS - FUNCTIONS: 3 = 3/2-way NC										
0	PORTS: 0 = single valve										
5	NOMINAL DIAMETER / MAX PRESSURE: 5 = ø 1.1 7 bar 6 = ø 1.1 3 bar										
F	MATERIALS: F = PBT body, FKM poppet seal, NBR other seals (FKM upon request)										
1	ELECTRICAL CONNECTION: 1 = 90° connection with protection and led B = in-line connection with protection and led										
8	SOLENOID VOLTAGE: 2 = 12V DC 8 = 24V DC (4W) inrush (1W holding)										
	FIXING: = with screws for plastics(standard) M = with screws for metal										



3/2-way NC solenoid valve - 90° electrical connection

Supplied with:
1x interface seal
2x screws M1.6x16 UNI 10227
(for standard version)
or
2x screws M1.6x16 UNI 7687 (for M version)



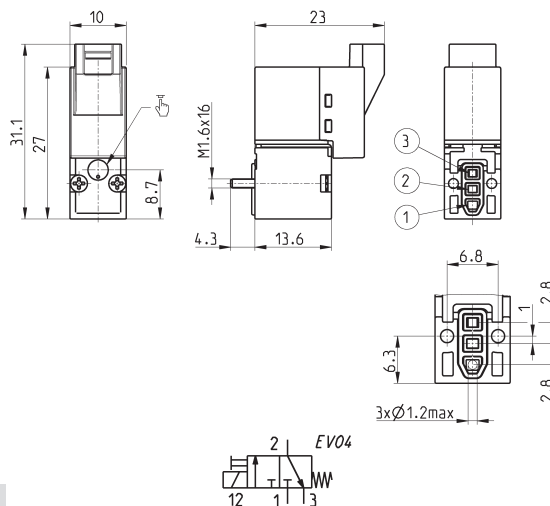
Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
KN000-305-F18	1.1	25	3 ÷ 7
KN000-306-F18	1.1	16 *	0 ÷ 3

* flow measurement at 3 bar ΔP1



3/2-way NC solenoid valve - in-line electrical connection

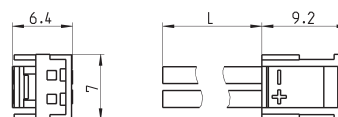
Supplied with:
1x interface seal
2x screws M1.6x16 UNI 10227
(for standard version)
or
2x screws M1.6x16 UNI 7687 (for M version)



Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
KN000-305-FB8	1.1	25	3 ÷ 7
KN000-306-FB8	1.1	16 *	0 ÷ 3

* flow measurement at 3 bar ΔP1

Connector Mod. 121-8..

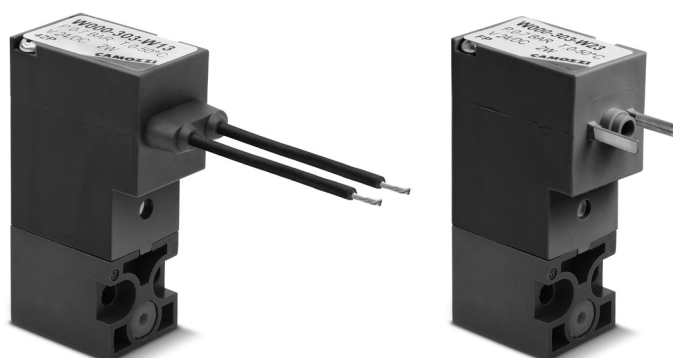


Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

Series W directly operated solenoid valves

3/2-way monostable NC and NO, monostable. The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4).

- » Electrical connection according to DIN 43650
- » High flow rate



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 manual override which make the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	on subbase, ISO 15218 interface by means of screws
Nominal diameter	0.8 ... 1.5 mm
Nominal flow	14 ... 35 NI/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.22 ... 0.54
Operating pressure	0 ÷ 5 ... 10 bar
Operating temperature	0 ÷ +50°C
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <10 msec - OFF <15 msec
Manual override	monostable button
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	12 V DC - 24 V DC - 48 V DC
Voltage tolerance	±10%
Power consumption	2 W - 1 W (24 V DC only)
Duty cycle	ED 100%
Electrical connection	DIN 43650 connector, (C Shape), 8 mm
Protection class	IP65 with connector

Special versions available on demand

CODING EXAMPLE

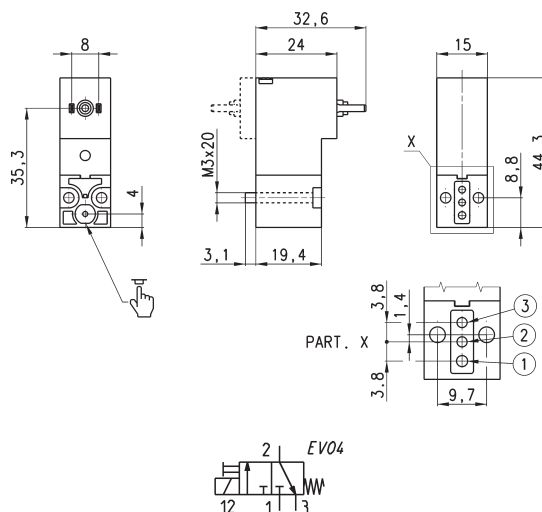
W	0	00	-	3	0	3	-	W	2	3	
---	---	----	---	---	---	---	---	---	---	---	--

W	SERIES										
0	BODY DESIGN: 0 = single sub-base (only M5) or interface 1 = single manifold 2 = double manifold										
00	NUMBER OF POSITIONS: 00 = 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-way NC 4 = 3-way NO 5 = 3-way NC electric part revolved by 180° 6 = 3-way NO electric part revolved by 180°										
0	VALVE PORTS: 0 = interface MANIFOLD PORTS (for Series W, P and PN): 2 = M5 side 3 = tube ø 3 side 4 = tube ø 4 side 6 = M5 rear ports 7 = ø 3 tube rear ports 8 = ø 4 tube rear ports										
3	NOMINAL DIAMETER - MAX PRESSURE 1 = ø 0,8 (1W) 10 bar (NC) 24V only 3 = ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 5 = ø 1,1 NC (2W) 10 bar (NC) ø 0,9 NO (2W) 10 bar (NO)										
W	MATERIALS: W = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)										
2	ELECTRICAL CONNECTION: 1 = cables 300mm (24V DC only) 2 = 2 faston (24V - 48V DC)										
3	SOLENOID VOLTAGE: 2 = 12V DC 3 = 24V DC 4 = 48V DC										
	FIXING: = with screws for metal (standard) P = with screws for plastics										



3/2-way NC solenoid valve, 2 faston (24V DC - 48V DC)

Supplied with:
 1x interface seal
 2x screws M3x20 UNI 8112 (for standard version)
 or
 2x screws M3x23 UNI 10227 (for version P)

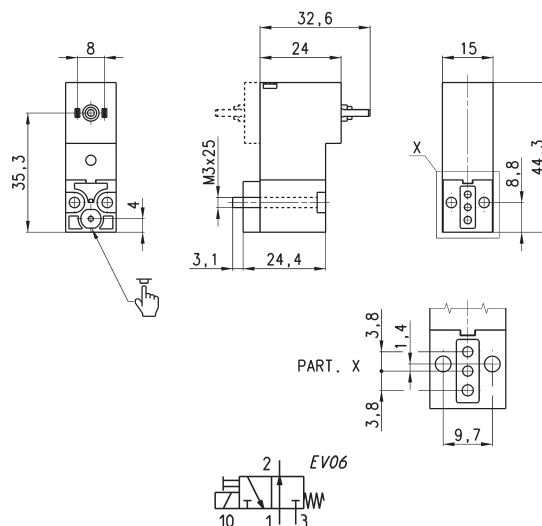


Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
W000-305-W23	1.1	25	0 ÷ 10
W000-303-W23	1.5	35	0 ÷ 7
W000-305-W24	1.1	25	0 ÷ 10
W000-303-W24	1.5	35	0 ÷ 7

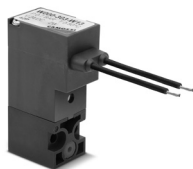


3/2-way NO solenoid valve, 2 faston (24V DC - 48V DC)

Supplied with:
 1x interface for NO version
 (connections 1 and 3 are inverted)
 2x interface seals
 2x screws M3x25 UNI 8112 (for standard version)

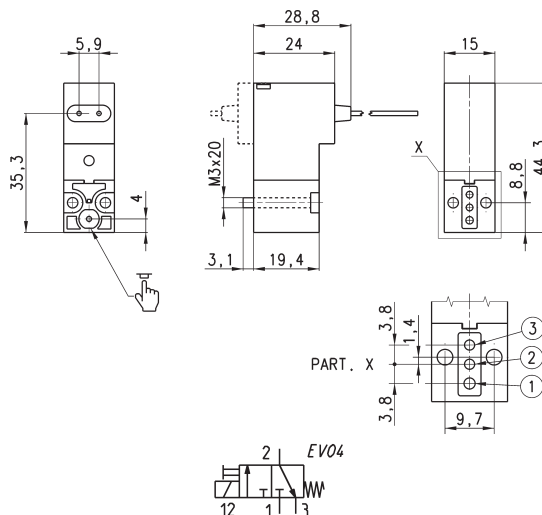


Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
W000-405-W23	0.9	15	0 ÷ 10
W000-403-W23	1.5	23	0 ÷ 5
W000-405-W24	0.9	15	0 ÷ 10
W000-403-W24	1.5	23	0 ÷ 5

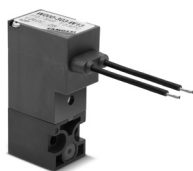


3/2-way NC solenoid valve with cables of 300mm (24V DC only)

Supplied with:
 1x interface seal
 2x screws M3x20 UNI 8112 (for standard version)
 or
 2x screws M3x23 UNI 10227 (for version P)

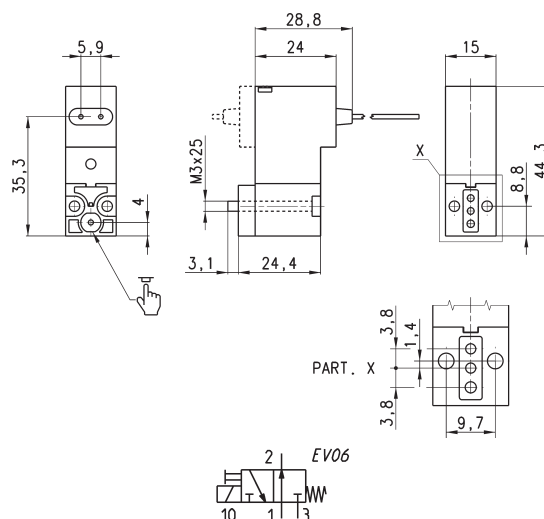


Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
W000-305-W13	1.1	25	0 ÷ 10
W000-303-W13	1.5	35	0 ÷ 7



3/2-way NO solenoid valve with cables of 300mm (24V DC only)

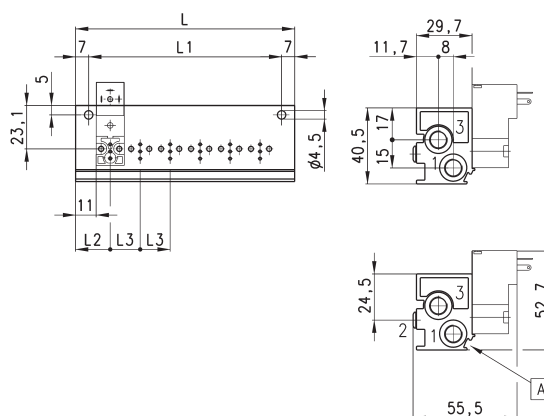
Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals
2x screws M3x25 UNI 8112 (for standard version)



Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
W000-405-W13	0.9	15	0 ÷ 10
W000-403-W13	1.5	25	0 ÷ 5



Single manifold with rear outlets



DIMENSIONS							
Mod.	N° 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

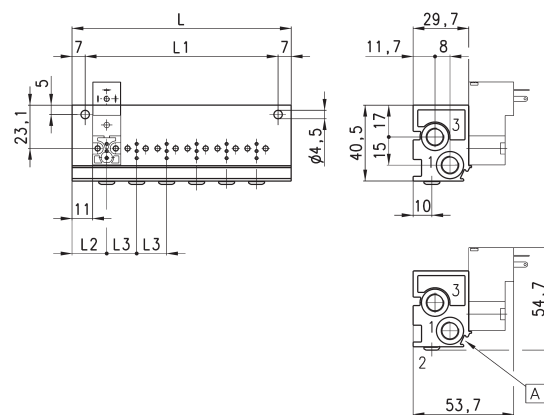
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



Single manifold with front outlets

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

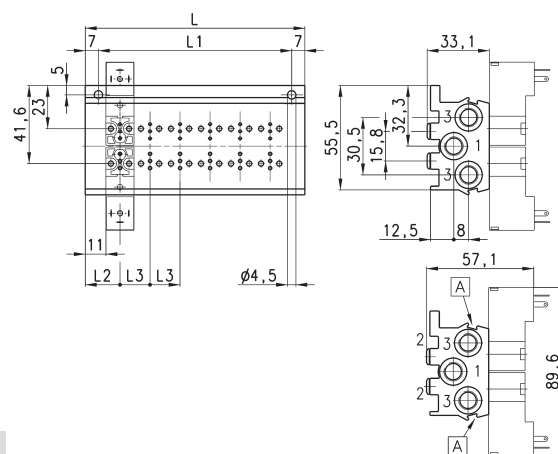


DIMENSIONS							
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with rear outlets



DIMENSIONS

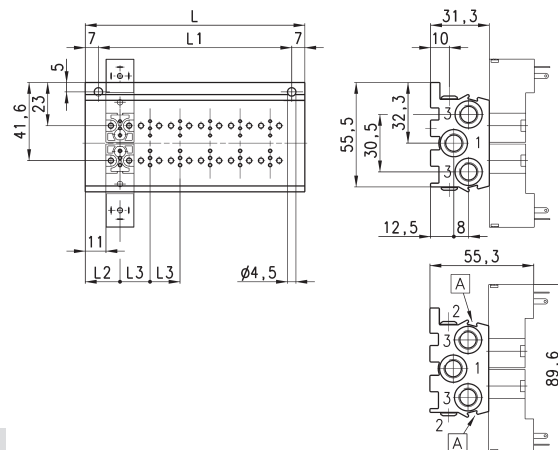
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with front outlets

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



DIMENSIONS

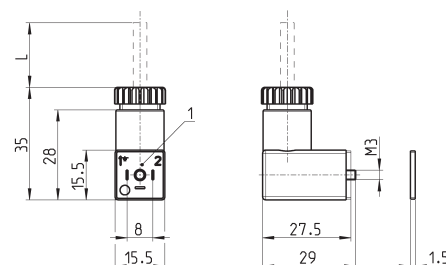
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Connector Mod. 126-... DIN 43650 pin spacing 8 mm

To be used in all DC valves with voltages from 6 to 110 V.

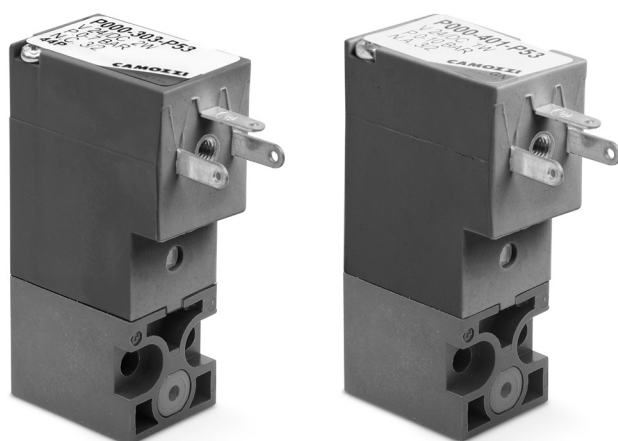


1 = 90° adjustable connector

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

Series P directly operated solenoid valves

3/2-way NC and NO. The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4).



Note: all Series P solenoid valves are basically in DC.
To operate in AC at the same target voltage, the valves need to use the connector Mod. 125-900.

Series P directly operated mini-solenoid valves are available as 3/2-way, either NC or NO. Both versions can be mounted on single bases or on manifolds and they are equipped with a manual override which makes the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	on subbase, ISO 15218 interface by means of screws
Nominal diameter	0.8 ... 1.5 mm
Nominal flow	14 ... 35 NI/min (air @ 6 bar Δ P 1 bar)
Kv (l/min)	0.22 ... 0.54
Operating pressure	0 ÷ 3 ... 10 bar
Operating temperature	0 ÷ +50°C
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <10 msec - OFF <15 msec
Manual override	monostable button
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PBT technopolymer
Seals	FKM, NBR (FKM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	12 ... 110 V DC - 24 ... 110 V AC 50/60 Hz
Voltage tolerance	±10%
Power consumption	2 W - 1 W (24 V DC only)
Duty cycle	ED 100%
Electrical connection	DIN 43650 connector, (C Shape), 9.4 mm
Protection class	IP65 with connector

Special versions available on demand

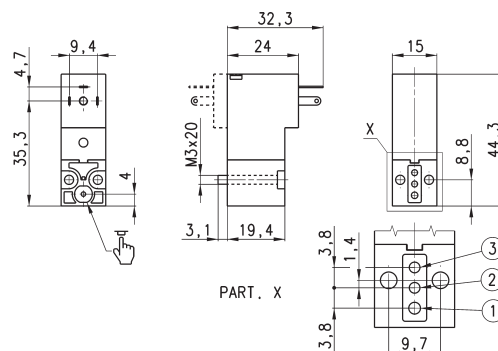
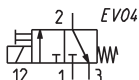
CODING EXAMPLE

P	0	00	-	3	0	3	-	P	5	3	
P	SERIES										
0	BODY DESIGN: 0 = single sub-base (M5 only) or interface 1 = single manifold 2 = double sided manifold										
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 + 99 = manifold number of positions										
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC 4 = 3-way NO 5 = 3-way NC electric part revolved by 180° 6 = 3-way NO electric part revolved by 180°										
0	VALVE PORTS: 0 = interface (for 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										
3	NOMINAL DIAMETER - MAX PRESSURE 1 = ø 0,8 (1W) 10 bar (NC) 24V only 3 = ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 5 = ø 1,1 NC (2W) 10 bar (NC) ø 0,9 NO (2W) 10 bar (NO) 6 = ø 1,5 NC (2W) 3 bar (NC) *										
P	MATERIALS: P = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)										
5	ELECTRICAL CONNECTION: 5 = 3 faston pitch 9,4										
3	SOLENOID VOLTAGE: B = 24V 50/60 Hz 2 = 12V DC 6 = 110V DC C = 48V 50/60 Hz 3 = 24V DC D = 110V 50/60 Hz 4 = 48V DC										
	FIXING: = with screws for metal (standard) P = with screws for plastics										

* Voltage tolerance from +10% to -25%

3/2-way NC solenoid valve

Supplied with:
 1x interface seal
 2x screws M3x20 UNI 8112 (for standard version)
 or
 2x screws M3x23 UNI 10227 (for version P)

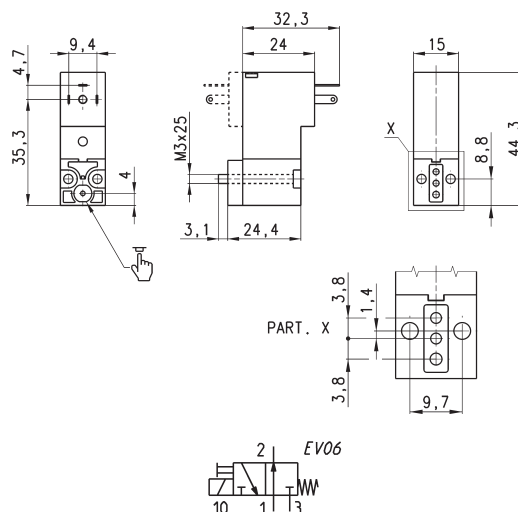


Mod.	Orifice Ø (mm)	Qn (Nl/min)	Pressure min-max (bar)
P000-301-P53	0,8	14	0 + 10
P000-303-P53	1,5	35	0 + 7
P000-305-P53	1,1	25	0 + 10
P000-306-P53	1,5	35	0 + 3



3/2-way NO solenoid valve

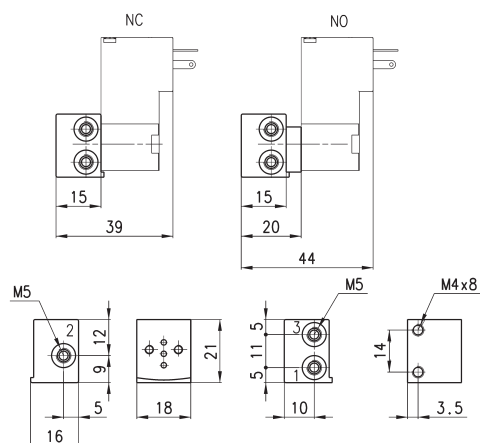
Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals
2x screws M3x25 UNI 8112 (for standard version)



Mod.	Orifice Ø (mm)	QN (NI/min)	Pressure min-max (bar)
P000-405-P53	0.9	15	0 ÷ 10
P000-403-P53	1.5	23	0 ÷ 5



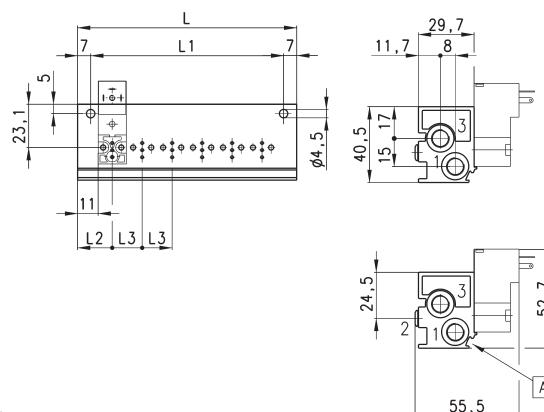
Single sub-base



Mod.
P001-02



Single manifold with rear outlets



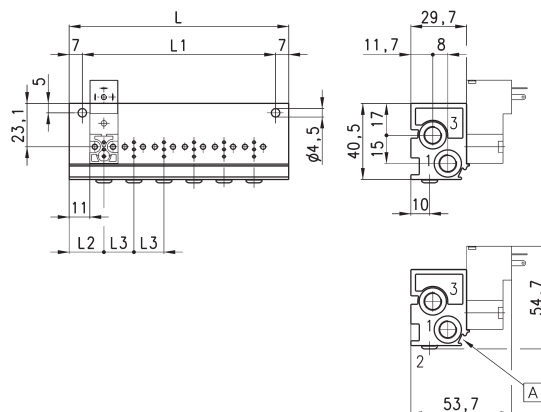
DIMENSIONS							
Mod.	N° Valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Single manifold with front outlets

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

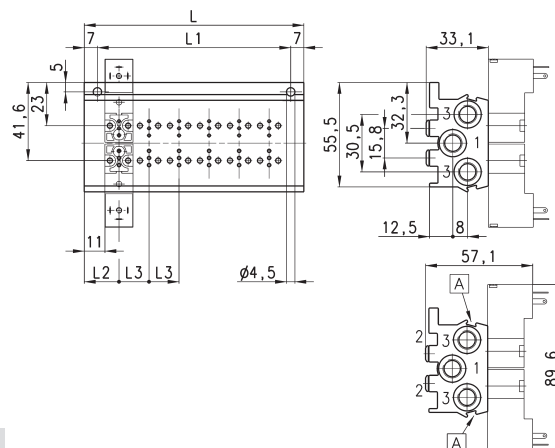


DIMENSIONS							
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with rear outlets



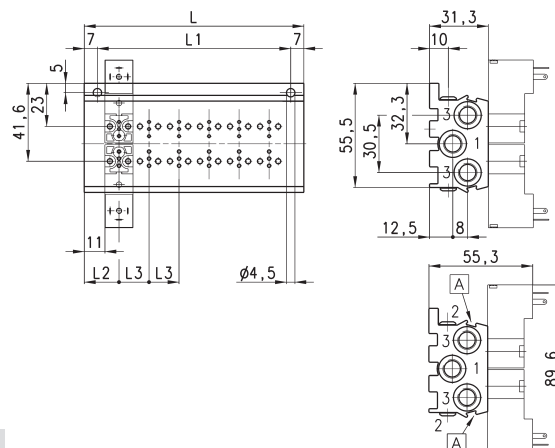
DIMENSIONS							
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with front outlets

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



DIMENSIONS							
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

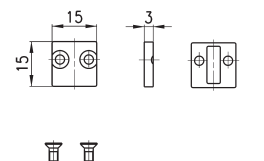
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Excluder tap



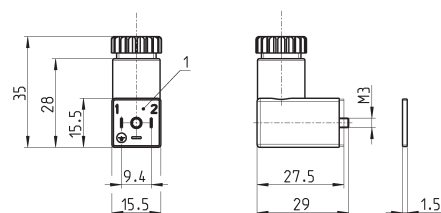
Supplied with:
1x excluder tap
1x interface seal
2x screws



Mod.

P000-TP

Connector Mod. 125-... DIN 43650 pitch 9.4 mm



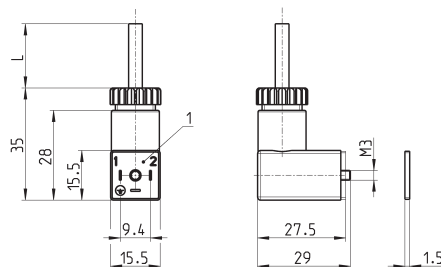
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable



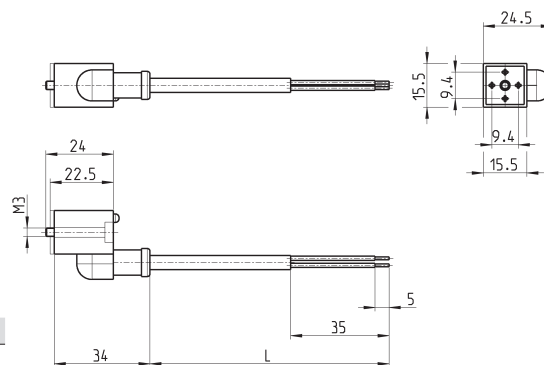
The internal rectifier circuit of the connector
Mod. 125-900 allows to use solenoid valves with
different AC voltage, even if the voltage indicated on
the solenoid valve is DC.



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

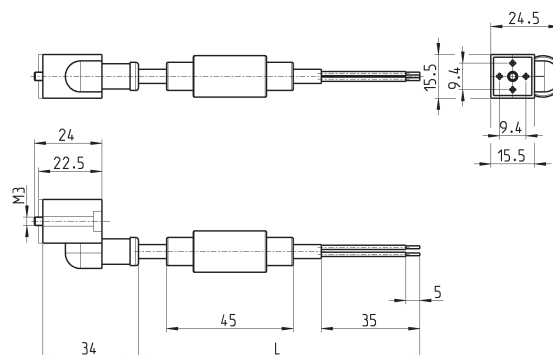
1 = 90° adjustable connector

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

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

Series PL directly operated solenoid valves

3/2-way NC. These solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4).



Note: all Series PL 3-way solenoid valves are basically in DC.
To operate in AC at the same target voltage, the valves need to use the connector Mod. 125-900.

Series PL directly operated mini-solenoid valves are available in the NC version and can be mounted on single bases or on manifolds.

GENERAL DATA

TECHNICAL FEATURES

Function	3/2 NC
Operation	direct acting poppet type
Pneumatic connections	on subbase by means of M3 screws
Nominal diameter	1.5 mm
Nominal flow	35 Nl/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.54
Operating pressure	-0.9 ÷ 3 ... 8 bar
Operating temperature	0 ÷ +50°C
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <10 msec - OFF <15 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PBT technopolymer
Seals	FKM, NBR
Internal parts	stainless steel, NBR

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	2.7 W
Duty cycle	ED 100%
Electrical connection	DIN 43650 connector, (C Shape), 9.4 mm
Protection class	IP65 with connector

Special versions available on demand

CODING EXAMPLE

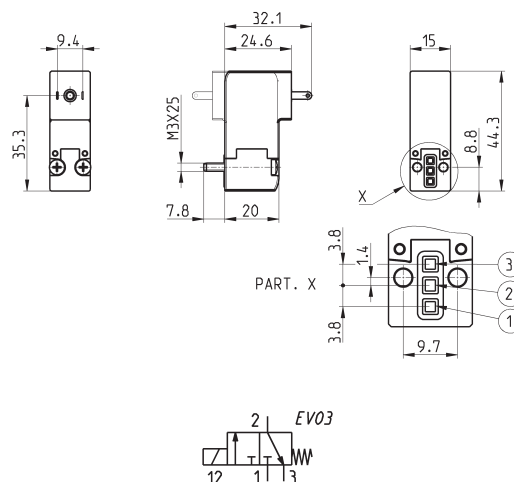
PL	0	00	-	3	0	3	-	PL	2	3
----	---	----	---	---	---	---	---	----	---	---

PL	SERIES
0	BODY DESIGN: 0 = single sub-base (M5 only) or interface 1 = single manifold 2 = double sided manifold
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 + 99 = manifold number of positions
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC 5 = 3-way NC electric part revolved by 180°
0	VALVE PORTS: 0 = interface (for single valve only) MANIFOLD PORTS: 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
3	NOMINAL DIAMETER 3 = ø 1,5 6 = ø 1,5 NC (for use with vacuum)
PL	MATERIALS: PL = technopolymer PBT body, FKM poppet seal, other seals in NBR
2	ELECTRICAL CONNECTION: 2 = 2 faston pitch 9,4
3	SOLENOID VOLTAGE: 2 = 12V DC 3 = 24V DC

3/2-way NC solenoid valve



Supplied with:
1x interface seal
2x screws

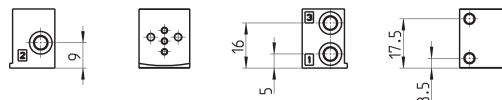
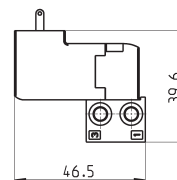


Mod.	Orifice Ø (mm)	Qn (Nl/min)	Pressure min-max (bar)
PL000-303-PL23	1.5	35	3 ÷ 8
PL000-503-PL23	1.5	35	3 ÷ 8
PL000-306-PL23	1.5	24 *	-0.9 ÷ 3
PL000-506-PL23	1.5	24 *	-0.9 ÷ 3

* flow measurement at 3 bar ΔP1



Single sub-base

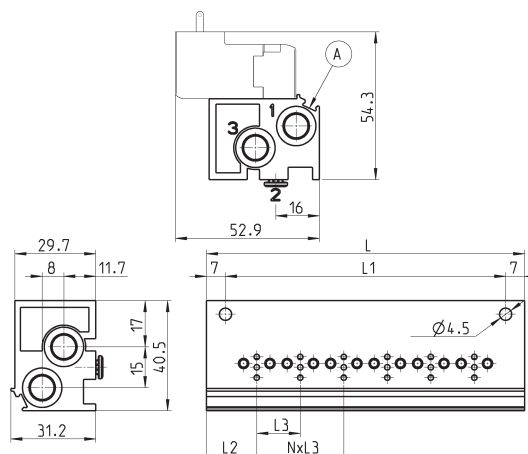


Mod.

P001-02



Single manifold with rear outlets



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

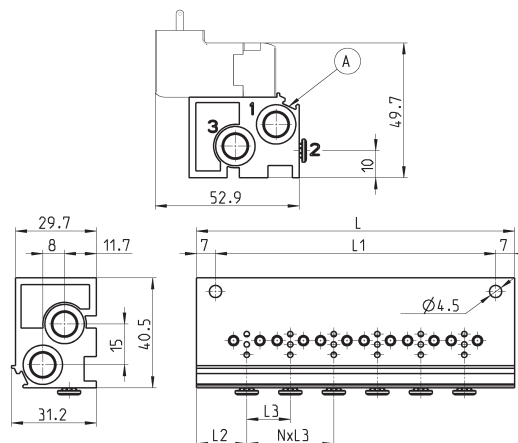
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification



Single manifold with front outlets

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

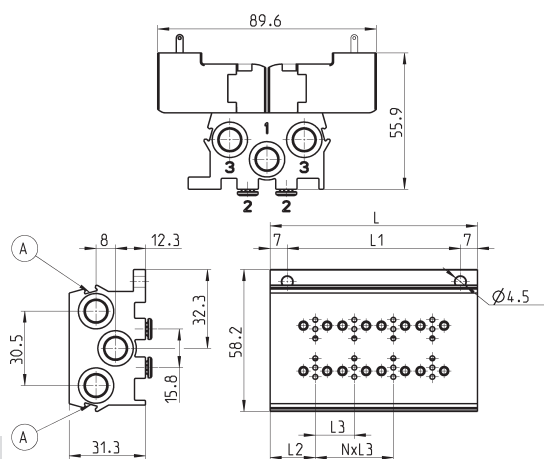


Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with rear outlets



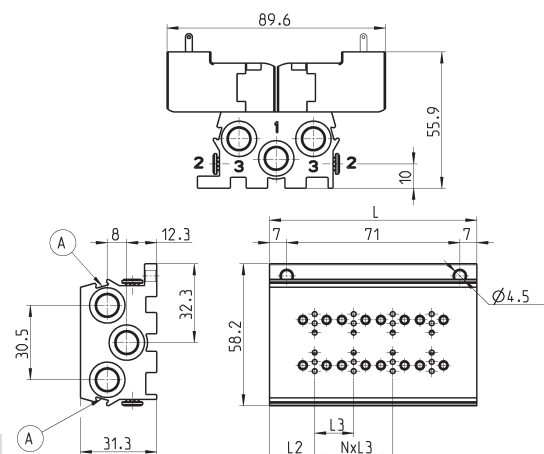
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with front outlets

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



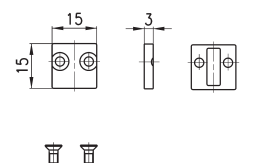
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

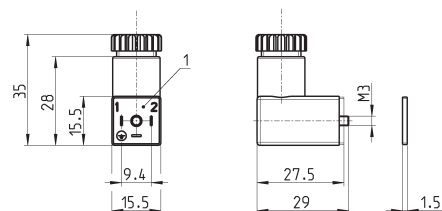
Excluder tap

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



Mod.
P000-TP

Connector Mod. 125-... DIN 43650 pitch 9.4 mm

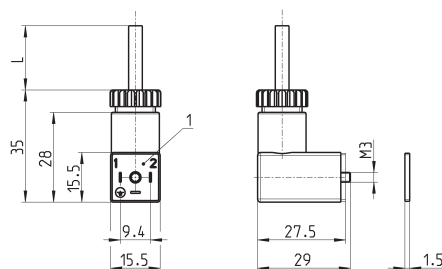


Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable

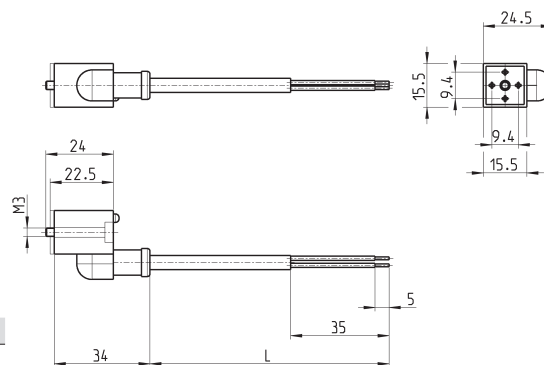
The internal rectifier circuit of the connector
Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



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

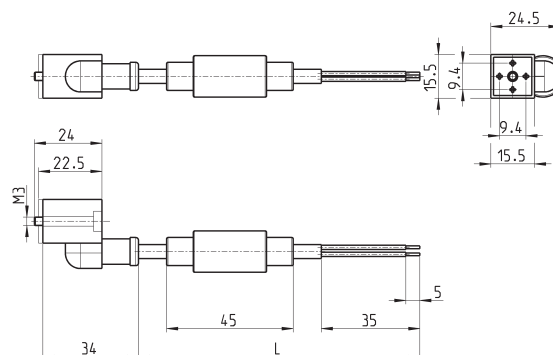
1 = 90° adjustable connector

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

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

Series PN directly operated solenoid valves

3/2-way Normally Closed (NC). The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4).

2

CONTROL



» Compact design suitable for use in reduced mounting space

Note: all Series PN solenoid valves are basically in DC.
To operate in AC at the same target voltage, the valves require the connector 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 NC
Operation	direct acting poppet type
Pneumatic connections	on subbase by means of M3 screws
Nominal diameter	0.8 mm
Nominal flow	12 Nl/min (air @ 6 bar Δ P 1 bar)
Kv (l/min)	0.19
Operating pressure	0 ÷ 10 bar
Operating temperature	0 ÷ +50°C
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	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	DIN 43650 connector, (C Shaped), 9.4 mm
Protection class	IP65 with connector

Special versions available on demand

CODING EXAMPLE

PN	0	00	-	3	0	1	-	P	5	3	
----	---	----	---	---	---	---	---	---	---	---	--

PN

SERIES

0

BODY DESIGN:

0 = single sub-base
1 = single manifold
2 = double sided manifold

00

NUMBER OF POSITIONS:

00 = interface
01 = single base (M5 only)
02 ÷ 99 = manifold number of positions

3

NUMBER OF WAYS - FUNCTIONS:

0 = manifold or single base
3 = 3-way NC

0

VALVE PORTS:

0 = interface (for 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

NOMINAL DIAMETER - MAX PRESSURE

1 = ø 0,8 (1W) 10 bar (NC) 24V only

P

MATERIALS:

P = PBT body, PU poppet seal

5

ELECTRICAL CONNECTION:

5 = 3 faston pitch 9,4

3

SOLENOID VOLTAGE:

3 = 24V DC
4 = 48V DC
6 = 110V DC
7 = 205V DC

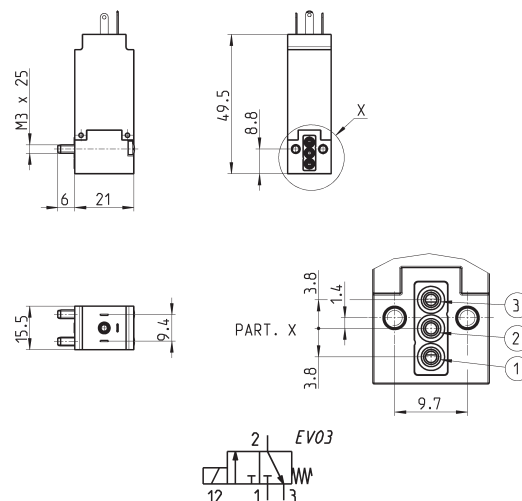
FIXING:

= standard for the mounting on plastic interfaces
M = with screw for the mounting on metal interface (on demand)



3/2-way NC solenoid valve

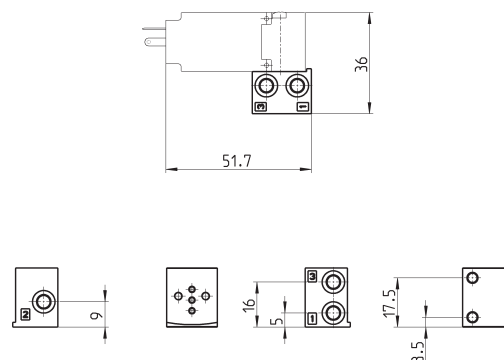
Supplied with:
1x interface seal
2x screws



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



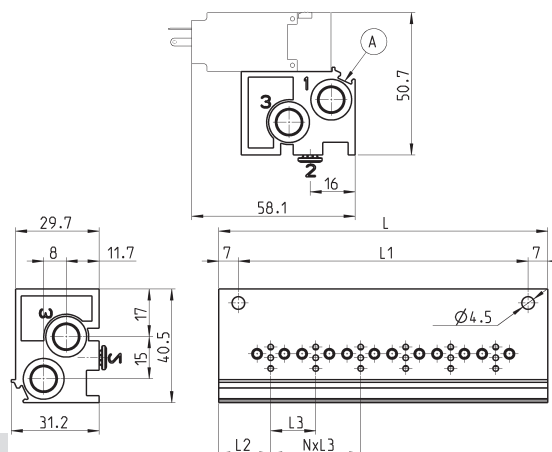
Single sub-base



Mod.
P001-02



Single manifold with rear outlets



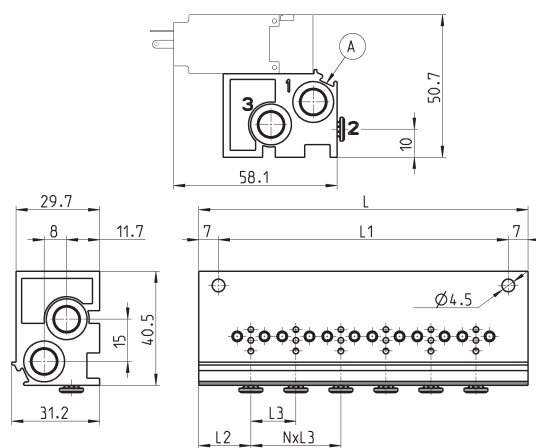
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Single manifold with front outlets

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

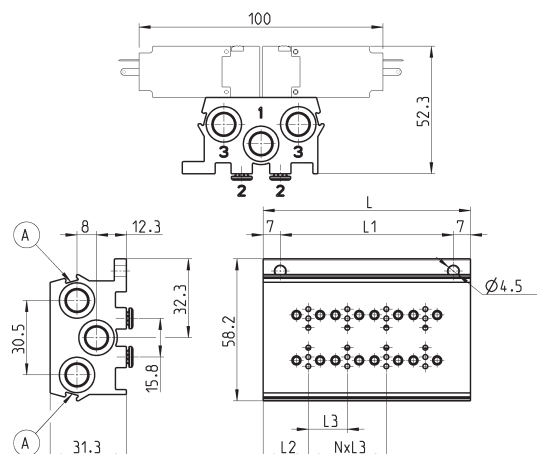


Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided manifold with rear outlets



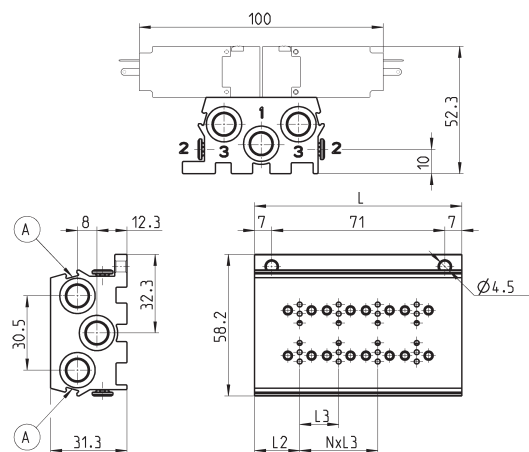
Mod.	Nr valves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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

A = groove for electric connection identification

Double sided 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)
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

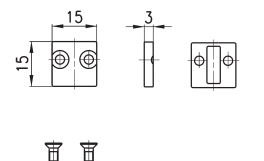
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Excluder tap



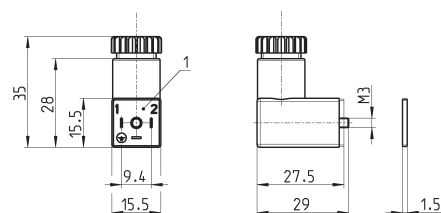
Supplied with:
1x excluder tap
1x interface seal
2x screws



Mod.

P000-TP

Connector Mod. 125-... DIN 43650 pitch 9.4 mm



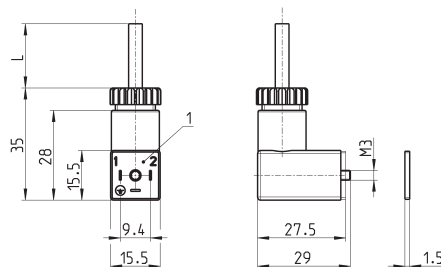
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable



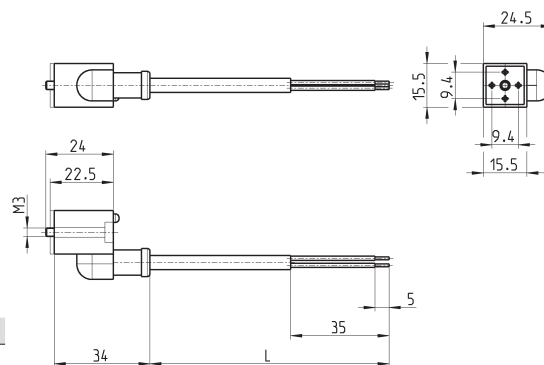
The internal rectifier circuit of the connector
Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



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

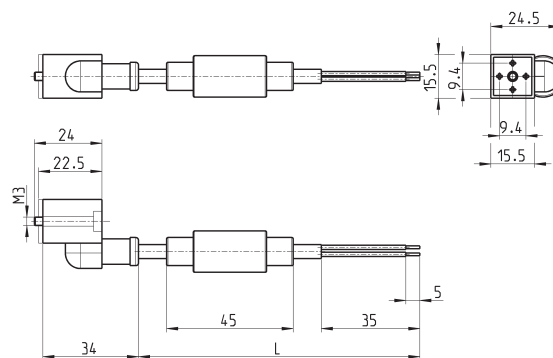
1 = 90° adjustable connector

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

In-line connectors with bridge rectifier

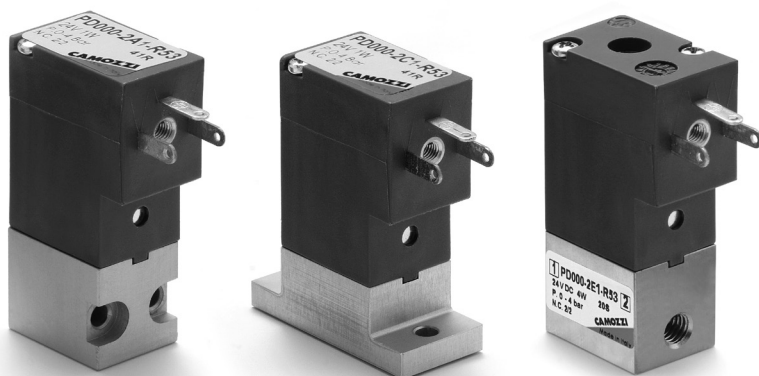


Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-903-2	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	2000 mm	-	0.3 Nm
125-903-5	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	5000 mm	-	0.3 Nm

Series PD directly operated solenoid valves

New

2/2-way Normally Closed (NC)



Note: all Series PD 2/2-way solenoid valves are basically in DC.
To operate in AC at the same target voltage, the valves need to use the connector Mod. 125-800 or Mod. 125-900.

This directly operated solenoid valve is available as 2/2-way, NC, in several sizes and in three different versions.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC
Operation	direct acting poppet type
Pneumatic connections	on subbase by means of M3 screws - M5 threads
Nominal diameter	0.8 ... 2.5 mm
Nominal flow	25 ... 125 NI/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.39 ... 1.93
Operating pressure	-0.9 ÷ 4 ... 12 bar
Operating temperature	0 ÷ +50°C
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <10 msec - OFF <15 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	brass, anodized aluminium
Seals	NBR, (FKM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - other voltages on demand
Voltage tolerance	1 and 2 W ±10% - 4 W ±5%
Power consumption	1 ... 4 W
Duty cycle	ED 100% (1 and 2 W) - ED 50% (4W) see the ED definition diagram
Electrical connection	DIN 43650 connector, (C Shape), 9.4 mm
Protection class	IP65 with connector

Special versions available on demand

CODING EXAMPLE

PD	0	00	-	2	A	1	-	R	5	3	
----	---	----	---	---	---	---	---	---	---	---	--

PD	SERIES
0	BODY DESIGN: 0 = single body
00	NUMBER OF POSITIONS: 00 = interface
2	NUMBER OF WAYS - FUNCTIONS: 2 = 2-way NC
A	BODY MATERIALS AND VALVE PORTS: A = aluminium body, rear pneumatic interface C = aluminium body, low pneumatic interface E = brass body, M5 ports (for ø up to 1.6mm)
1	NOMINAL DIAMETER: 1 = ø 0.8 2 = ø 1.2 3 = ø 1.6 4 = ø 2 5 = ø 2.5
R	POPPET SEAL MATERIALS: R = NBR F = FKM (on request)
5	ELECTRICAL CONNECTION: 5 = 3 faston pitch 9,4
3	SOLENOID VOLTAGE: 1 = 12V DC 1W 2 = 12V DC 2W 3 = 24V DC 1W 5 = 24V DC 2W 8 = 24V DC 4W
	FIXING: = with screws for metal (standard) P = with screws for plastics

2

CONTROL

ED definition diagram

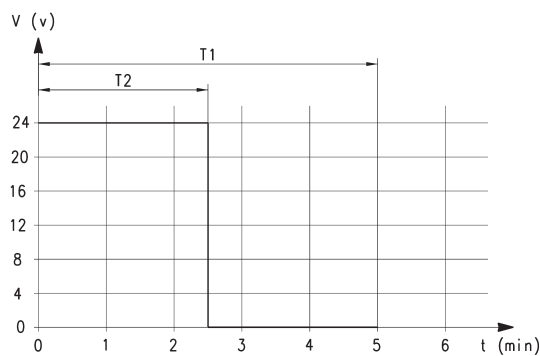
Operating factor lower than 50%

T1 = cycle time (5 minutes max)

T2 = energizing time

t = time (minutes)

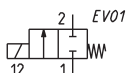
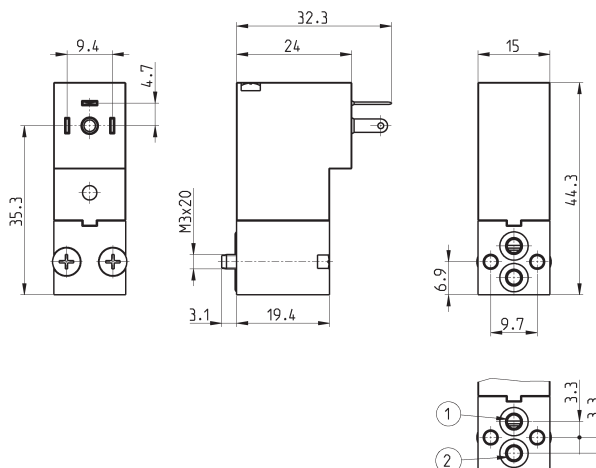
V = working voltage (volt)

ED = $T2/T1 \times 100$ 



2/2-way NC solenoid valve, rear pneumatic interface

Supplied with:
2x OR seals
2x screws M3x20 UNI 8112
(for standard version)
or
2x screws M3x23 UNI 10227
(for version P)
For use with vacuum invert channel
1 and channel 2.

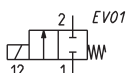
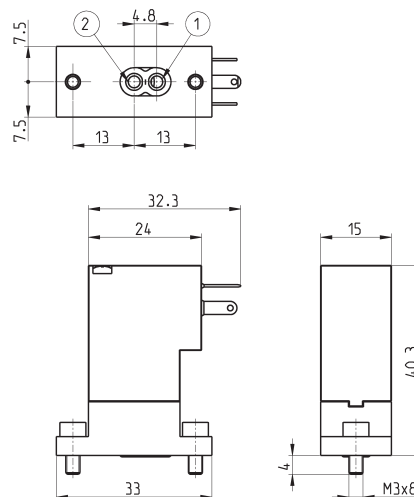


Mod.	Orifice Ø (mm)	Qn (NI/min)	Kv	Pressure min-max (bar)	Consumption (W)	ED (%)
PD000-2A1-R51	0.8	25	-	0 ÷ 12	1	100
PD000-2A1-R53	0.8	25	-	0 ÷ 12	1	100
PD000-2A2-R52	1.2	35	-	0 ÷ 12	2	100
PD000-2A2-R55	1.2	35	-	0 ÷ 12	2	100
PD000-2A3-R52	1.6	45	-	0 ÷ 7	2	100
PD000-2A3-R55	1.6	45	-	0 ÷ 7	2	100
PD000-2A4-R58	2	85	-	0 ÷ 6	4	50
PD000-2A5-R58	2.5	125	-	0 ÷ 4	4	50



2/2-way NC solenoid valve, low pneumatic interface

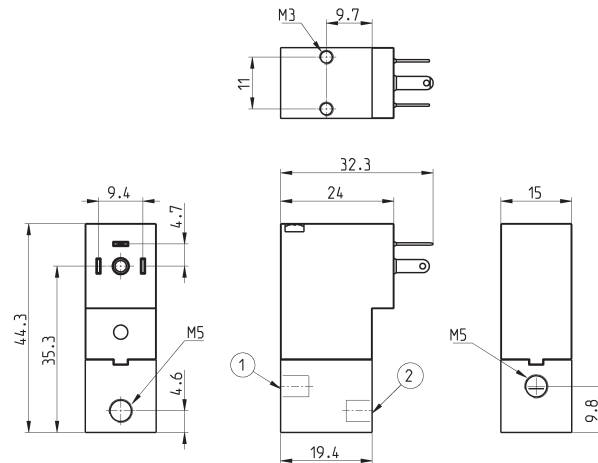
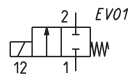
Supplied with:
1x seal
2x screws M3x8 UNI 5931
For use with vacuum invert channel
1 and channel 2.



Mod.	Orifice Ø (mm)	Qn (NI/min)	Kv	Pressure min-max (bar)	Consumption (W)	ED (%)
PD000-2C1-R51	0.8	25	-	0 ÷ 12	1	100
PD000-2C1-R53	0.8	25	-	0 ÷ 12	1	100
PD000-2C2-R52	1.2	35	-	0 ÷ 12	2	100
PD000-2C2-R55	1.2	35	-	0 ÷ 12	2	100
PD000-2C3-R52	1.6	45	-	0 ÷ 7	2	100
PD000-2C3-R55	1.6	45	-	0 ÷ 7	2	100
PD000-2C4-R58	2	85	-	0 ÷ 6	4	50
PD000-2C5-R58	2.5	125	-	0 ÷ 4	4	50

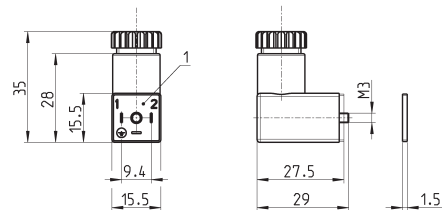
2/2-way NC solenoid valve, M5 ports

For use with vacuum invert channel 1 and channel 2.



Mod.	Orifice Ø (mm)	Qn (Nl/min)	Kv	Pressure min-max (bar)	Consumption (W)	ED (%)
PD000-2E1-R51	0.8	25	-	0 ÷ 12	1	100
PD000-2E1-R53	0.8	25	-	0 ÷ 12	1	100
PD000-2E2-R52	1.2	35	-	0 ÷ 12	2	100
PD000-2E2-R55	1.2	35	-	0 ÷ 12	2	100
PD000-2E3-R52	1.6	45	-	0 ÷ 7	2	100
PD000-2E3-R55	1.6	45	-	0 ÷ 7	2	100

Connector Mod. 125-... DIN 43650 pitch 9.4 mm

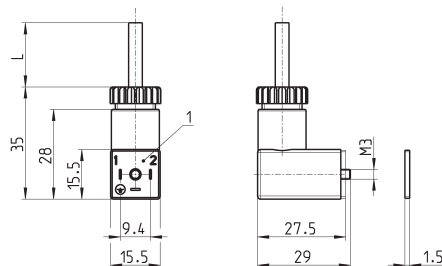


Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable

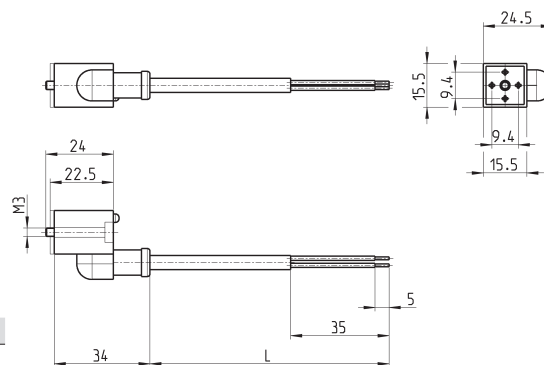
The internal rectifier circuit of the connector
Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



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

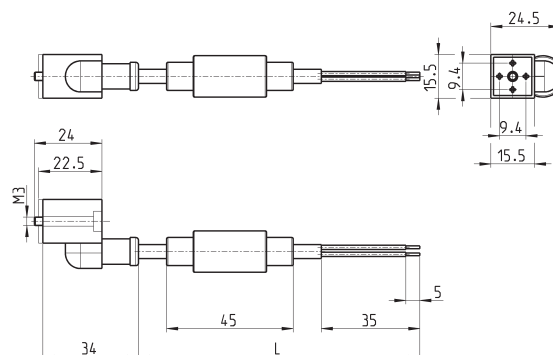
1 = 90° adjustable connector

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

In-line connectors with bridge rectifier

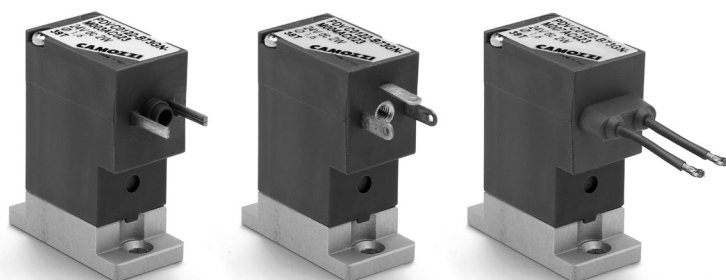


Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-903-2	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	2000 mm	-	0.3 Nm
125-903-5	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	5000 mm	-	0.3 Nm

Series PDV

directly operated solenoid valves with separating diaphragm

2/2-way Normally Closed (NC)



- » Suitable to be used with neutral or aggressive fluids
- » Suitable for specific applications on medical and analytical equipment or instruments
- » Compact design
- » Versions available for vacuum applications

To choose the most suitable model for a specific application, check the chemical compatibility of the medium to control with the available materials of body and seals.

Series PDV directly operated solenoid valve is available with several nominal diameters and in three different versions according to the electrical connection. The separating diaphragm protects the medium from extreme changes of temperature due to heating of the solenoid.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC
Operation	directly operated with separating diaphragm on subbase by means of M3 screws
Pneumatic connections	
Nominal diameter	0.8 ... 2 mm
Flow	see Kv
Kv (l/min)	0.3 ... 0.9
Operating pressure	-0.9 ÷ 0 ... 10 bar
Operating temperature	0 ÷ +50°C
Media	gas and liquids: air, water, reagents, solvents, etc...
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PEEK
Seals	FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage	24 V DC - 12 V DC - other voltages on request
Voltage tolerance	±10%
Power consumption	2 W
Duty cycle	ED 100%
Electrical connection	DIN 43650 connector, (C Form), pitch 9.4 and 8 mm - cable L = 300 mm
Protection class	IP65 with connector

Special versions available on request

CODING EXAMPLE

PDV	C0	1	22	-	B7	3	G	N	-	M	00	4A	C023
-----	----	---	----	---	----	---	---	---	---	---	----	----	------

PDV	SERIES
C0	BODY DESIGN: C0 = body with interface for subbase
1	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC
22	PNEUMATIC CONNECTIONS: 22 = PDV-type interface, 2-way
B7	NOMINAL DIAMETER: A7 = \varnothing 0.8 mm B3 = \varnothing 1.2 mm B7 = \varnothing 1.6 mm C1 = \varnothing 2.0 mm
3	SEAL MATERIAL: 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL: G = PEEK
N	MANUAL OVERRIDE: N = not foreseen
M	FIXING ACCESSORIES: M = screws for metal
00	OPTIONS: 00 = none VC = for vacuum applications
4A	ELECTRICAL CONNECTION: 3A = DIN 43650 connector (C Form), pitch 8 mm 3C = DIN 43650 connector (C Form), pitch 8 mm with coil rotated 180° 4A = DIN 43650 connector (C Form), pitch 9.4 mm 4C = DIN 43650 connector (C Form), pitch 9.4 mm with coil rotated 180° 7A = cables (L = 300 mm) 7C = cables (L = 300 mm) with coil rotated 180°
C023	VOLTAGE - ABSORPTION: C017 = 6V DC 2W C020 = 12V DC 2W C023 = 24V DC 2W

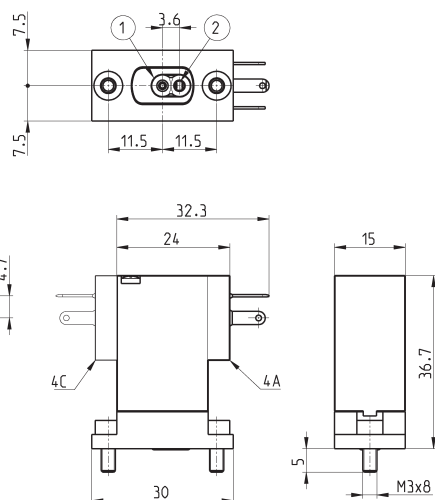
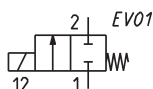


2/2 NC solenoid valve, DIN 43650 connector (C Form) pitch 9.4 mm

Supplied with:
1x seal
2x M3x8 UNI 5931 screws

NOTE IN THE TABLE BELOW:
* to complete the code, add
ELECTRICAL CONNECTION
(4A or 4C options)
and VOLTAGE
(see CODING EXAMPLE)

NOTE IN THE DRAWING:
1 = INLET PORT
2 = OUTLET PORT



Mod.	Nominal diameter Ø (mm)	Kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	FKM
PDVC0122-A73GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	EPDM
PDVC0122-A74GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-A75GN-M00*	0.8	0.30	0 ÷ 6	0.5	PEEK	FFKM
PDVC0122-A75GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B33GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	FKM
PDVC0122-B33GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	EPDM
PDVC0122-B34GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B35GN-M00*	1.2	0.48	0 ÷ 5	0.5	PEEK	FFKM
PDVC0122-B35GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B73GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	FKM
PDVC0122-B73GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	EPDM
PDVC0122-B74GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B75GN-M00*	1.6	0.70	0 ÷ 3	0.5	PEEK	FFKM
PDVC0122-B75GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-C13GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	FKM
PDVC0122-C13GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	EPDM
PDVC0122-C14GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-C15GN-M00*	2.0	0.90	0 ÷ 1.8	0.5	PEEK	FFKM
PDVC0122-C15GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FFKM

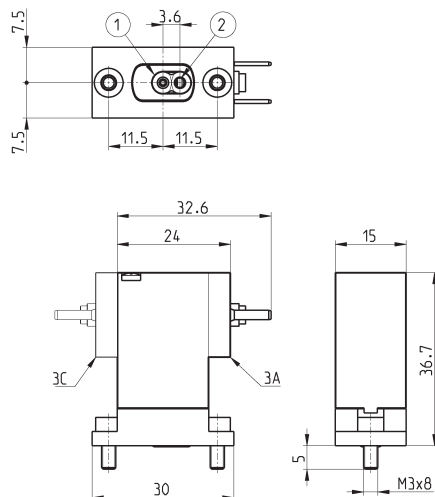
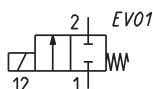
2/2 NC solenoid valve, DIN 43650 connector (C Form) pitch 8 mm



Supplied with:
1x seal
2x M3x8 UNI 5931 screws

NOTE IN THE TABLE BELOW:
* to complete the code, add
ELECTRICAL CONNECTION
(3A or 3C options)
and VOLTAGE
(see CODING EXAMPLE)

NOTE IN THE DRAWING:
1 = INLET PORT
2 = OUTLET PORT



Mod.	Nominal diameter Ø (mm)	Kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	FKM
PDVC0122-A73GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	EPDM
PDVC0122-A74GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-A75GN-M00*	0.8	0.30	0 ÷ 6	0.5	PEEK	FFKM
PDVC0122-A75GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B33GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	FKM
PDVC0122-B33GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	EPDM
PDVC0122-B34GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B35GN-M00*	1.2	0.48	0 ÷ 5	0.5	PEEK	FFKM
PDVC0122-B35GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B73GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	FKM
PDVC0122-B73GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	EPDM
PDVC0122-B74GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B75GN-M00*	1.6	0.70	0 ÷ 3	0.5	PEEK	FFKM
PDVC0122-B75GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-C13GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	FKM
PDVC0122-C13GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	EPDM
PDVC0122-C14GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-C15GN-M00*	2.0	0.90	0 ÷ 1.8	0.5	PEEK	FFKM
PDVC0122-C15GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FFKM

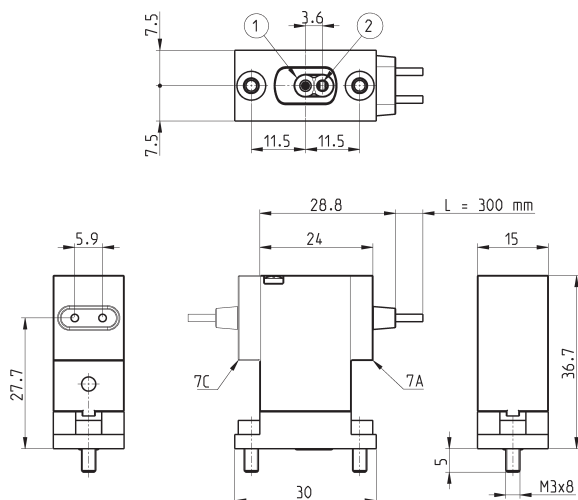
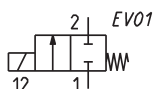


2/2 NC solenoid valve, electrical connection with 300mm cable

Supplied with:
1x seal
2x M3x8 UNI 5931 screws

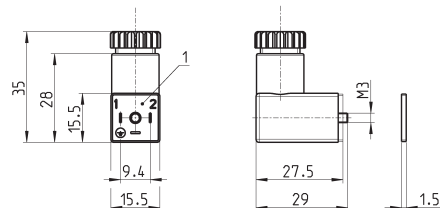
NOTE IN THE TABLE BELOW:
* to complete the code, add
ELECTRICAL CONNECTION
(7A or 7C options)
and VOLTAGE
(see CODING EXAMPLE)

NOTE IN THE DRAWING:
1 = INLET PORT
2 = OUTLET PORT



Mod.	Nominal diameter Ø (mm)	Kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	FKM
PDVC0122-A73GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.30	0 ÷ 10	1.6	PEEK	EPDM
PDVC0122-A74GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-A75GN-M00*	0.8	0.30	0 ÷ 6	0.5	PEEK	FFKM
PDVC0122-A75GN-MVC*	0.8	0.30	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B33GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	FKM
PDVC0122-B33GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.48	0 ÷ 8	1.6	PEEK	EPDM
PDVC0122-B34GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B35GN-M00*	1.2	0.48	0 ÷ 5	0.5	PEEK	FFKM
PDVC0122-B35GN-MVC*	1.2	0.48	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-B73GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	FKM
PDVC0122-B73GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.70	0 ÷ 4.5	1.6	PEEK	EPDM
PDVC0122-B74GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-B75GN-M00*	1.6	0.70	0 ÷ 3	0.5	PEEK	FFKM
PDVC0122-B75GN-MVC*	1.6	0.70	-0.9 ÷ 0	-0.9	PEEK	FFKM
PDVC0122-C13GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	FKM
PDVC0122-C13GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.90	0 ÷ 2.5	1.6	PEEK	EPDM
PDVC0122-C14GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	EPDM
PDVC0122-C15GN-M00*	2.0	0.90	0 ÷ 1.8	0.5	PEEK	FFKM
PDVC0122-C15GN-MVC*	2.0	0.90	-0.9 ÷ 0	-0.9	PEEK	FFKM

Connector Mod. 125-... DIN 43650 pitch 9.4 mm



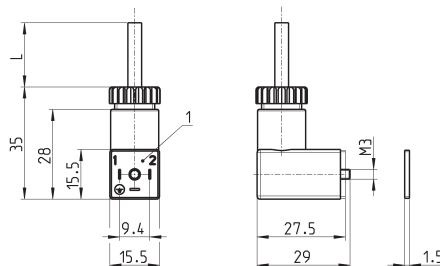
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable



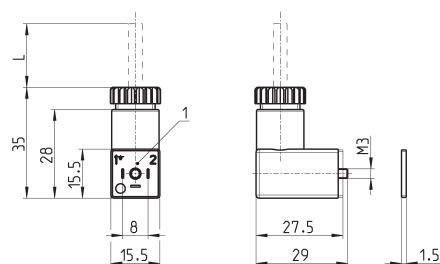
The internal rectifier circuit of the connector
Mod. 125-900 allows to use solenoid valves with
different AC voltage, even if the voltage indicated on
the solenoid valve is DC.



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

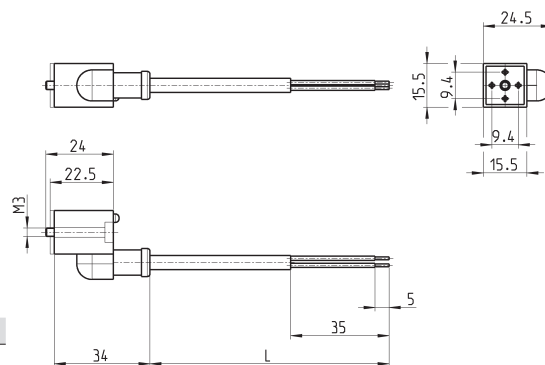
Connector Mod. 126-... DIN 43650 pitch 8 mm



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

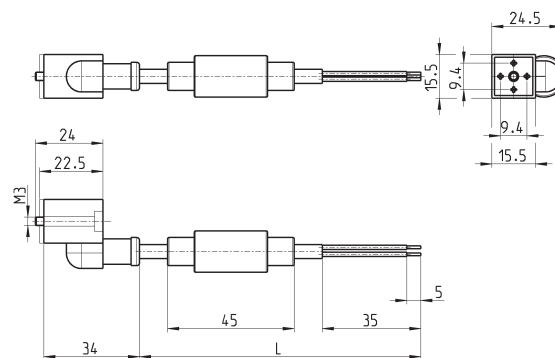
1 = 90° adjustable connector

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

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

Series A directly operated solenoid valves

2/2-way, 3/2-way NC and NO.

Monostable - bistable (with magnetic memory)

Ports M5 - G1/8 - R1/8 - cartridge $\varnothing 4$



The solenoid can be easily and quickly replaced without interfering with the pressurised part of the valve. On the same mechanical part different types of solenoids can be interchanged. The choice of solenoids determines the performance of the solenoid valve in terms of consumption and pressure.

Series A solenoid valves are of the directly operated type and can be used with dry or lubricated air. They are available in the 2/2 and 3/2-way versions with normally closed (NC) or normally open (NO) operation.

As shown in the following tables, they are supplied in different versions according to the type of body, threaded ports and orifice. They can thus satisfy various operating and installation requirements.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	M5, G1/8, R1/8 threads - $\varnothing 4$ fitting - CNOMO interface
Nominal diameter	1.5 ... 2.5 mm
Nominal flow	40 ... 130 Nl/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	0.62 ... 2.0
Operating pressure	-0.9 ... 15 bar
Operating temperature	0 ÷ +60°C (with dry air -20°C)
Media	filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <15 msec - OFF <25 msec
Manual override	see tables
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	nickel-plated brass - PBT technopolymer
Seals	HNBR, FKM
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	12 ... 110 V DC - 24 ... 380 V AC 50/60 Hz
Voltage tolerance	$\pm 10\%$ (DC) / $-15\% \div +10\%$ (AC)
Power consumption	3 ... 5 W (DC) / 3.5 ... 7 VA (AC)
Duty cycle	ED 100%
Electrical connection	F (155°C)
Protection class	DIN 43650 connector, (A, B Shape) IP65 with connector

Special versions available on demand

CODING EXAMPLE

A	3	3	1	-	0	C	2	-	U7	7
---	---	---	---	---	---	---	---	---	----	---

A	SERIES																																		
3	BODY DESIGN: 1 = base (24x24 mm) interface rotatable through 360° 2 = base (24x24 mm) fixed interface 3 = threaded body 4 = rapid exhaust body 5 = base with ISO standard interface, fixed body in technopolymer 6 = (16x16 mm) interface rotatable through 360° A = single manifold B = 2-part manifold C = 3-part manifold D = 4-part manifold E = 5-part manifold F = 6-part manifold G = 7-part manifold H = 8-part manifold K = 9-part manifold L = 10-part manifold M = 11-part manifold N = 12-part manifold P = 13-part manifold R = 14-part manifold S = 15-part manifold																																		
3	NUMBER OF PORTS: 2 = 2 way 3 = 3 way																																		
1	FUNCTION: 1 = NC 2 = NO 3 = NO in line																																		
0	PORTS: <table><tr><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td>0</td><td>M5</td><td>M5</td><td>M5</td></tr><tr><td>1</td><td>G1/8</td><td>G1/8</td><td>M5</td></tr><tr><td>3</td><td>M5</td><td>R1/8</td><td>M5</td></tr><tr><td>4</td><td>M5</td><td>R1/8</td><td>M5 with manual override</td></tr><tr><td>A</td><td>swivel O-ring interface</td><td></td><td>M5</td></tr><tr><td>B</td><td>fixed O-ring interface</td><td></td><td>M5</td></tr><tr><td>C</td><td>cartridge Ø 4</td><td></td><td></td></tr></table>				1	2	3	0	M5	M5	M5	1	G1/8	G1/8	M5	3	M5	R1/8	M5	4	M5	R1/8	M5 with manual override	A	swivel O-ring interface		M5	B	fixed O-ring interface		M5	C	cartridge Ø 4		
	1	2	3																																
0	M5	M5	M5																																
1	G1/8	G1/8	M5																																
3	M5	R1/8	M5																																
4	M5	R1/8	M5 with manual override																																
A	swivel O-ring interface		M5																																
B	fixed O-ring interface		M5																																
C	cartridge Ø 4																																		
C	NOMINAL DIAMETER: C = Ø 1,5 D = Ø 2 E = Ø 2,5																																		
2	BODY MATERIAL: 2 = nickel-plated brass 3 = technopolymer																																		
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22																																		
7	SOLENOID VOLTAGE: See the solenoids section on page 2/2.35.01																																		

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

Valve function 2/2: for vacuum application connect the vacuum in "2"

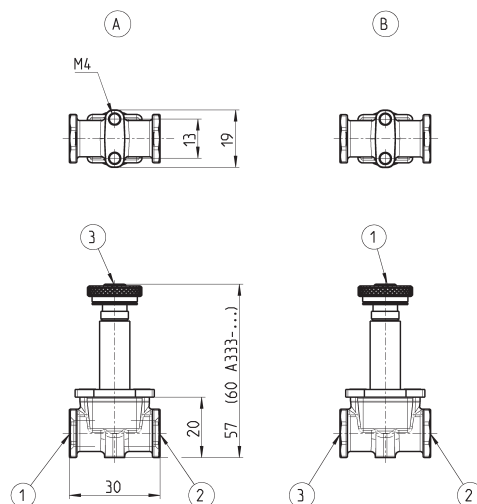
Valve function 3/2: for vacuum application connect the vacuum in "1"

Note: for solenoid Mod. G90 (2/2 NO) contact our technical department

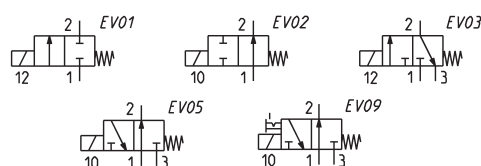
Mod.	Solenoids 3W working pressure (bar)	Solenoids 4-5 W working pressure (bar)	Solenoids 3,5 VA working pressure (bar)
	allowed pressure with solenoids DC - 3 W	allowed pressure with solenoids DC - 4-5 W	allowed pressure with solenoids AC - 3,5 VA
Valve function 2/2 NC			
A321-0C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1D2	- 0,9 ÷ 4	- 0,9 ÷ 9	- 0,9 ÷ 9
A321-1E2	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
Valve function 2/2 NO			
A322-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A322-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
Valve function 3/2 NC			
A331-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-3C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-4C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A431-1C2	2 ÷ 10	2 ÷ 10	2 ÷ 10
A531-BC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A631-AC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
AA31-CC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-CC3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
Valve function 3/2 NO			
A332-0C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A332-1C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A333-0C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
A333-1C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
AA33-0C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
AA33-0C3	- 0,9 ÷ 7	-	- 0,9 ÷ 8
AA33-CC3	- 0,9 ÷ 7	-	- 0,9 ÷ 8

2/2 and 3/2-way solenoid valves Mod. A32 and Mod. A33

Available in the 2/2-way version, NC or NO, as well as in the 3/2-way version, NC, NO or NO in line. In the 3/2 NC version connection 1 is on the body (fig. A), whereas in the 3/2 NO version is on the M5 thread of the tube (fig. B).



Mod.	Conn. 1	Conn. 2	Conn. 3	Function	Orifice Ø mm	Qn (Nl/min)	Symbol
A321-0C2-*	M5	M5	-	2/2 NC	1,5	50	EV01
A321-1C2-*	G1/8	G1/8	-	2/2 NC	1,5	55	EV01
A321-1D2-*	G1/8	G1/8	-	2/2 NC	2	100	EV01
A321-1E2-*	G1/8	G1/8	-	2/2 NC	2,5	130	EV01
A322-0C2-*	M5	M5	-	2/2 NO	1,8	70	EV02
A322-1C2-*	G1/8	M5	-	2/2 NO	1,8	80	EV02
A331-0C2-*	M5	M5	M5	3/2 NC	1,5	50	EV03
A331-1C2-*	G1/8	G1/8	M5	3/2 NC	1,5	60	EV03
A332-0C2-*	M5	M5	M5	3/2 NO	1,5	55	EV09
A332-1C2-*	M5	G1/8	G1/8	3/2 NO	1,5	50	EV09
A333-0C2-*	M5	M5	M5	3/2NO in line	1,5	60	EV05
A333-1C2-*	G1/8	G1/8	M5	3/2NO in line	1,5	60	EV05



Note. For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1.

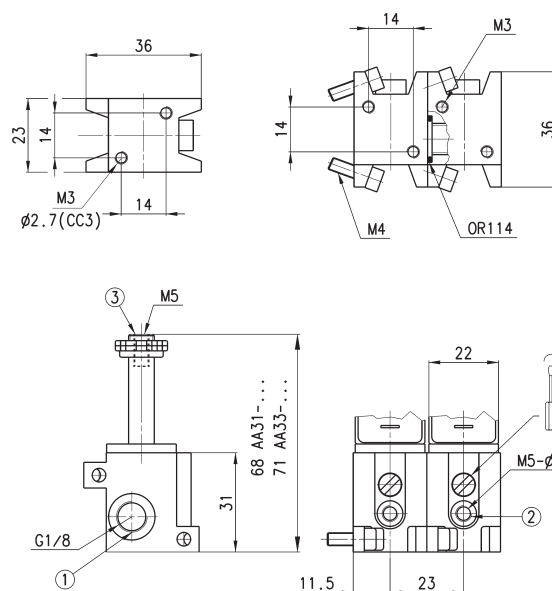
solenoid.

* choose the most suitable

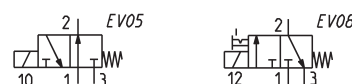
3/2-way solenoid valve Mod. AA31...

The 3/2-way solenoid valves for manifold assembly are available in the NC and NO in line version, with G1/8 ports at the manifold inlet. The inlets can be with M5 threading or with a Ø 4 cartridge.

The solenoid valve is supplied complete with O-ring and screws.



Mod.	Inlet / outlet	Function	Orifice Ø mm	Manual override bistable	Qn (Nl/min)	Symbol
AA31-0C2-*	G1/8 M5	3/2 NC	1,5	Yes	55	EV08
AA31-CC2-*	G1/8 04	3/2 NC	1,5	Yes	55	EV08
AA31-0C3-*	G1/8 M5	3/2 NC	1,5	Yes	55	EV08
AA33-0C2-*	G1/8 M5	3/2 NO in line	1,5	No	55	EV05
AA33-CC2-*	G1/8 04	3/2 NO in line	1,5	No	55	EV05
AA33-0C3-*	G1/8 M5	3/2 NO in line	1,5	No	65	EV05
AA31-CC3-*	G1/8 04	3/2 NC	1,5	Yes	55	EV08
AA33-CC3-*	G1/8 04	3/2 NO in line	1,5	No	65	EV05



Note. For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1.

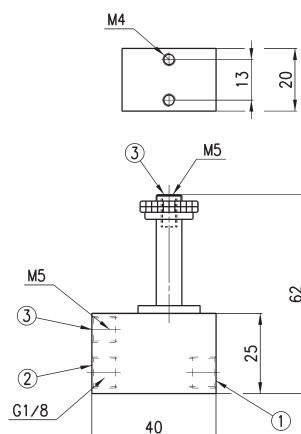
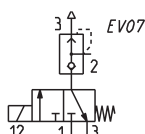
* choose the most suitable solenoid.

3/2-way solenoid valve Mod. A43

The 3/2-way NC solenoid valve, with G1/8 ports, incorporates a rapid exhaust valve. It is particularly suitable for operating small single-acting cylinders.



* choose the most suitable solenoid.



Mod.	Ports	Function	Orifice Ø mm	Qn (NI/min)
A431-1C2*	G1/8 / M5	3/2 NC	1.5	50

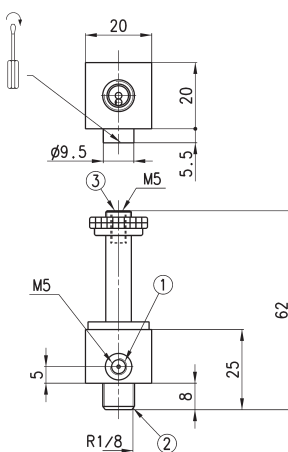
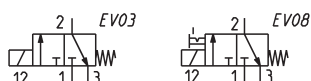
3/2-way solenoid valve Mod. A33

They are particularly suitable for the actuation of small single-acting cylinders and the operation of pneumatic valves with very low operating pressures.



The body has an outlet with a R1/8 male thread which can be screwed directly onto the component to be operated. The inlet port is M5 threaded.

* choose the most suitable solenoid.



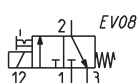
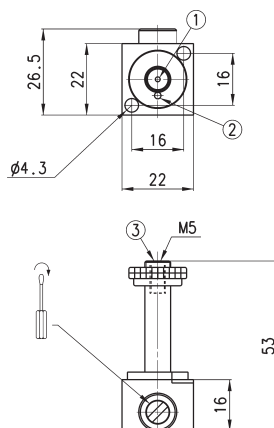
Mod.	Inlet / outlet	Function	Orifice Ø (mm)	Man. override bistable	Qn (NI/min)	Symbol
A331-3C2*	M5 / R1/8	3/2 NC	1,5	no	55	EV03
A331-4C2*	M5 / R1/8	3/2 NC	1,5	yes	55	EV08



* choose the most suitable solenoid.

3/2-way solenoid valve Mod. A63

Equipped with a manual override for a steady operation, it is suitable to be mounted directly onto machine parts by two screws. The sealing is ensured by two concentric O-rings allowing the body a 360° adjustment.



Mod.	Interface	Function	Orifice Ø (mm)	Qn (NI/min)
A631-AC2*	OR	3/2 NC	1,5	40

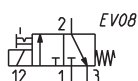
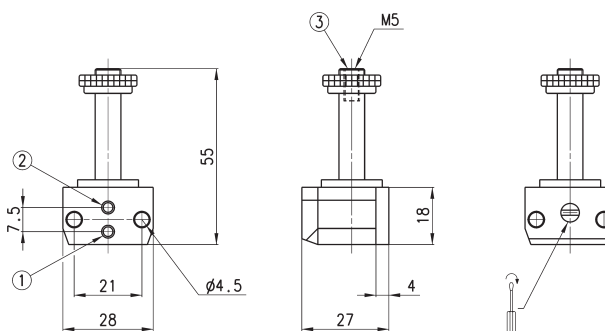


The body only is in technopolymer.

* choose the most suitable solenoid.

3/2-way solenoid valve Mod. A53

Equipped with a manual override for a steady operation, it is suitable to be mounted on Series 9 valves with an ISO interface. The interface which complies CNOMO norms is interchangeable with all ISO versions.



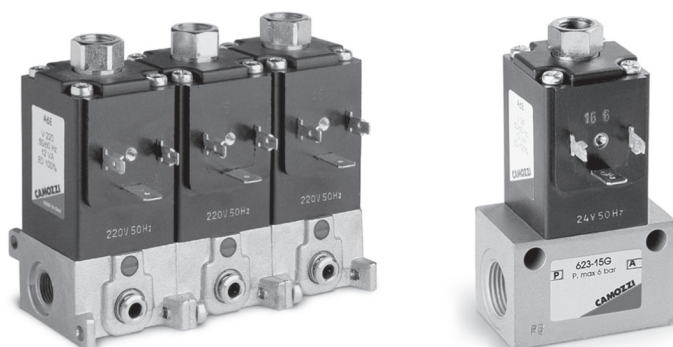
Mod.	Interface	Function	Orifice Ø (mm)	Qn (NI/min)
A531-BC2*	OR	3/2 NC	1,5	40

Series 6 directly operated solenoid valves

New version 

2/2-way - 3/2-way, NC and NO.
Ports G1/8 and G3/8 - cartridge $\varnothing 4$

» Available also in version
for the low temperatures
up to -50°C



The bodies of these valves can be used
either individually or in manifolds.
The latter are provided with G1/8 threaded
ports or an inbuilt diameter 4 cartridge (G3/8
for 2-way only).

Series 6 solenoid valves are available as 2/2 and 3/2-way, either NC
or NO.

These directly operated solenoid valves can be used either with or without lubrication.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO
Operation	direct acting poppet type
Pneumatic connections	G1/8, G3/8 threads - $\varnothing 4$ fitting - CNOMO interface
Nominal diameter	2 ... 4 mm
Nominal flow	80 ... 350 Nl/min (air @ 6 bar ΔP 1 bar)
Kv (l/min)	1.2 ... 8.0
Operating pressure	0 ÷ 4 ... 15 bar
Operating temperature	0 ÷ 60°C (seals in FKM) / -50 ÷ +50°C (seals in NBR)
Media	filtered air, class 5.4.4 (5.1.4 for versions -50°C) according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas
Response time	ON <15 msec - OFF <25 msec
Manual override	see tables
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	nickel-plated brass - anodized aluminium
Seals	FKM (NBR for versions -50°C)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	12 ... 110 V DC - 24 ... 230 V AC 50/60 Hz
Voltage tolerance	$\pm 10\%$ (DC) - $+10\%$ - -15% (AC)
Power consumption	10 W (DC) - 19 VA (inrush AC), 12 VA (holding AC)
Duty cycle	ED 100%
Electrical connection	H (180°C)
Protection class	DIN 43650 connector, (A Shape) IP65 with connector

Special versions available on demand

CODING EXAMPLE

6	3	8	M	-	105	-	A	6	B	
---	---	---	---	---	-----	---	---	---	---	--

6	SERIES:
3	NUMBER OF PORTS AND FUNCTIONS: 0 = interface 2 = 2-way NC 3 = 3-way NC 4 = 3-way NO
8	CONNECTION: 0 = interface 3 = G3/8 8 = G1/8 C = cartridge Ø 4
M	M = manifold
105	TYPE OF BODY: 150 = threaded body 450 = base with rotatable interface 457 = base with fixed interface 101 = single manifold 102 = manifold - 2 pieces 103 = manifold - 3 pieces 104 = manifold - 4 pieces 105 = manifold - 5 pieces 106 = manifold - 6 pieces 107 = manifold - 7 pieces 108 = manifold - 8 pieces 109 = manifold - 9 pieces 110 = manifold - 10 pieces 111 = manifold - 11 pieces 112 = manifold - 12 pieces 113 = manifold - 13 pieces 114 = manifold - 14 pieces 115 = manifold - 15 pieces
A	COIL MATERIAL: A = PPS
6	SOLENOID DIMENSIONS: 6 = 32x32
B	SOLENOID VOLTAGE: B = 24V 50/60Hz C = 48V 50/60 Hz D = 110V 50/60 Hz E = 230V 50/60 Hz 2 = 12V DC 3 = 24V DC 4 = 48V DC 6 = 110V DC
	VERSIONS: = standard LT = for low temperatures

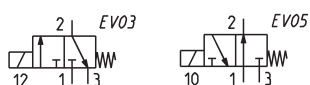
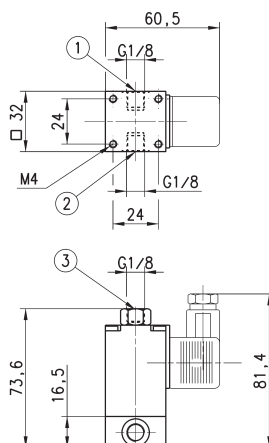
3/2-way NC and NO solenoid valve, G1/8 - Mod. 638 and Mod. 648

These valves are particularly suitable for operating single-acting cylinders or for use as signal valves.



In the mod. 648-150-A6* (NO) connections 1 and 3 are inverted, while the max operating pressure is 6 bar in case a solenoid A6B, A6C, A6D, A6E is chosen.

* = choose the solenoid voltage according to the CODING EXAMPLE



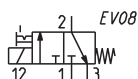
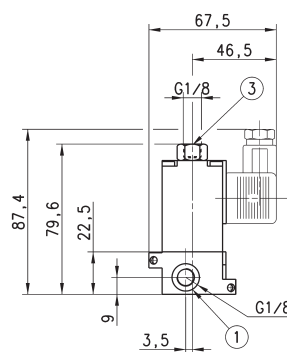
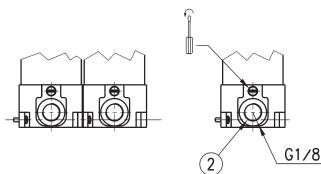
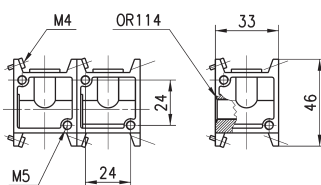
Mod.	Ports	Function	Orifice Ø (mm)	Qn (Nl/min)	Pressure min-max (bar)	Symbol
638-150-A6*	G1/8	NC	2	130	0 ÷ 10 [DC]	EV03
648-150-A6*	G1/8	NO	2	80	0 ÷ 8 [DC] - 0 ÷ 6 [AC]	EV05

3/2-way NC solenoid valve - Mod. 638M and Mod. 63CM

These solenoid valves are equipped with a manual override and are available with G1/8 inlet ports and with G1/8 outlets or with a diameter 4 cartridge. The body is supplied complete with screws and O-ring.



* = choose the solenoid voltage according to the CODING EXAMPLE



Mod.	Inlet	Outlet	Orifice Ø (mm)	Qn (Nl/min)	Pressure min-max (bar)
638M-101-A6*	G1/8	G1/8	2	120	0 ÷ 10
63CM-101-A6*	G1/8	cartridge Ø 4	2	108	0 ÷ 10

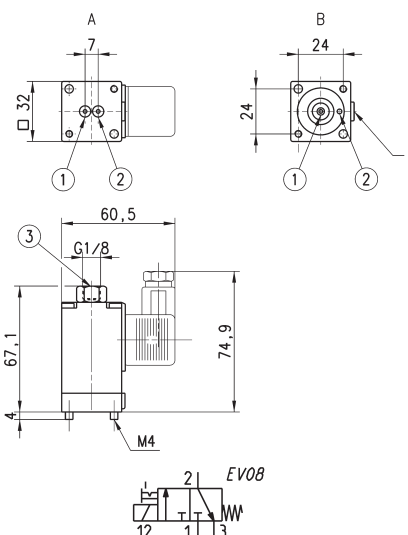


3/2-way NC solenoid valve - Mod. 600

These solenoid valves are equipped with an override and are available with two types of interface:

A = fixed interface

B = swivel interface

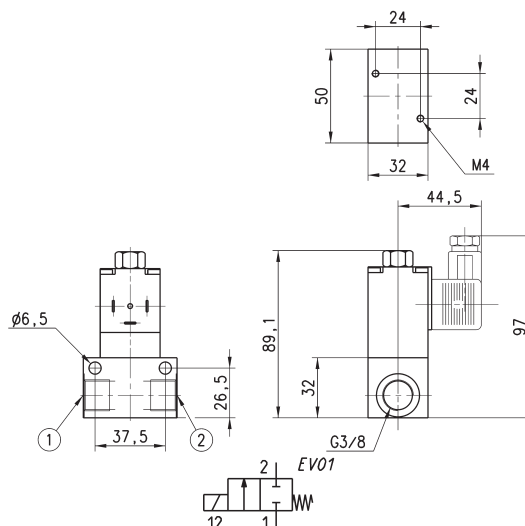


Mod.	Interface	Orifice Ø (mm)	Qn (NI/min)	Pressure min-max (bar)
600-450-A6*	Swivel	2	106	0 ÷ 10
600-457-A6*	Fixed	2	106	0 ÷ 10

* = choose the solenoid voltage according to the CODING EXAMPLE



2/2-way solenoid valves NC, G3/8 - Mod. 623



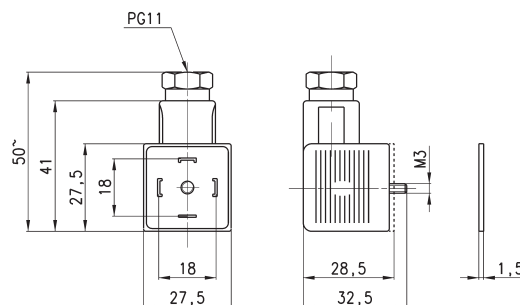
Mod.	Orifice Ø (mm)	Qn (NI/min)	Pressure (bar) min-max [max referred to 50 Hz]
623-15E-A6*	2.5	220	0 ÷ 12 [AC] - 0 ÷ 15 [DC]
623-15F-A6*	3	290	0 ÷ 10 [AC] - 0 ÷ 14 [DC]
623-15G-A6*	4	350	0 ÷ 4 [AC] - 0 ÷ 7 [DC]

* = choose the solenoid voltage according to the CODING EXAMPLE



Connector Mod. 124-... DIN 43650

Protection class IP65



Mod.	description	colour	working voltage	cable holding	tightening torque
124-800	connector, without electronics	black	-	PG9/PG11	0.5 Nm
124-702	connector, varistor + Led	black	110 V AC/DC	PG9/PG11	0.5 Nm
124-701	connector, varistor + Led	black	24 V AC/DC	PG9/PG11	0.5 Nm
124-703	connector, varistor + Led	black	230 V AC/DC	PG9/PG11	0.5 Nm

Series CFB solenoid valves

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



- » Solenoid valves for air and water
- » Great reliability over time, even in heavy working conditions

The valve function is determined by a poppet or by a diaphragm with operation direct or indirect. Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables. They can thus satisfy various requirements in terms of flow rates and working pressures.

Series CFB solenoid valves for general purpose are available in the NC and NO version, 2/2 and 3/2-way.

Special versions are available on demand for the protection against the water hammer or with specific treatments for the interception of aggressive fluids.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO
Operation	direct acting poppet type - servo-assisted with diaphragm
Pneumatic connections	G1/8 ... G2 threads
Nominal diameter	1.4 ... 50 mm
Nominal flow	See Kv
Kv (l/min)	0.14 ... 36.0
Operating pressure	0 ÷ 0.8 ... 22 bar
Operating temperature	-10°C + +90°C ... 140°C
Media	air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)
Response time	ON <15 msec - OFF <25 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	brass (alimentary or anti-limestone nickel-platings on demand)
Seals	NBR (CFB-A) - FKM (CFB-B, CFB-D) - EPDM (on demand)
Internal parts	stainless steel - stainless steel and brass (CFB-D1)

ELECTRICAL FEATURES

Voltage	12 V DC, 24 V DC - 24 V 50 Hz, 110 V 50/60 Hz, 220/230 V 50/60 Hz
Voltage tolerance	±5% (DC) - ±10% (AC)
Power consumption	10 ... 30 W (DC) - 9 ... 29 VA (AC)
Duty cycle	ED 100%
Electrical connection	H (180°C)
Protection class	DIN 43650 connector, (A shape) IP65 with connector

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.

CODING EXAMPLE

CFB	-	A	1	3	L	-	R	1	-	B7	E
-----	---	---	---	---	---	---	---	---	---	----	---

CFB	SERIES
A	OPERATION: A = indirect B = direct with linked diaphragm D = direct
1	NUMBER OF WAYS - POSITIONS: 1 = 2/2-way NO 2 = 2/2-way NC 3 = 3/2-way NC
3	CONNECTIONS: 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2 5 = G3/4 6 = G1 7 = G1 1/4 8 = G1 1/2 9 = G2
L	NOMINAL DIAMETER: A = 1,4 mm B = 2 mm C = 2,5 mm D = 2,8 mm F = 4 mm G = 6 mm J = 8 mm L = 11,5 mm M = 13 mm N = 13,5 mm P = 18 mm R = 26 mm T = 32 mm X = 45 mm Z = 50 mm
R	DIAPHRAGM MATERIAL: R = NBR W = FKM E = EPDM (on demand)
1	BODY MATERIAL: 1 = brass 2 = alimentary anti-limestone nickel-plated brass for high temperatures (on demand) 3 = alimentary nickel-plated brass (on demand)
B7	SOLENOID DIMENSION: B7 = 22 mm B8 = 30 mm B9 = 36 mm
E	SOLENOID VOLTAGE: B = 24V AC 50 Hz D = 110V AC 50/60 Hz E = 230V AC 50/60 Hz 2 = 12V DC 3 = 24V DC
NOTE: for some directly operated 2/2 NO solenoid valves, the solenoid to be used is the B8*K type (see also the TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES on page 2/1.30.03).	

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

For solenoids and their connectors see the section 2/2.35.

Mod. B8/B9 = mod. 124-800

Mod. B7 = mod. 122-800

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
Directly operated solenoid valve, 2/2 and 3/2 NC, 2/2 NO					
CFB-D21C-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21F-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22C-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22F-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22G-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23J-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
CFB-D24J-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
CFB-D24M-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	not available
CFB-D31A-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D31D-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32D-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D11A-W1-	B8BK (15VA)	B8DK (15VA) **	B8EK (15VA) **	B82K (19W)	B83K (19W)
CFB-D12D-W1-	B8BK (15VA)	B8DK (15VA) **	B8EK (15VA) **	B82K (19W)	B83K (19W)
CFB-D13J-W1-	B9B (29VA)	B9D (29VA) **	B9E (29VA) **	not available	not available
Directly operated solenoid valve with constrained diaphragm, 2/2 NC					
CFB-B23L-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B24N-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B25P-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B26R-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
Indirectly operated solenoid valve, 2/2 NC					
CFB-A23L-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A24N-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A25P-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A26R-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A27T-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A28X-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A29Z-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirectly operated solenoid valve, 2/2 NO					
CFB-A13L-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A14N-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A15P-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A16R-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A17T-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A18X-R1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-A19Z-R1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
* B7B solenoid with nominal bifrequency of 50/60 Hz			** only to be used with nominal frequency of 50 Hz		

Directly operated 2/2 NC - NO and 3/2 NC solenoid valve

The direct control of these solenoid valves enables them to work with operating pressures which are equal to zero. Ports: G1/8 and G1/2.

DRAWING LEGEND:

X = NC valve

Y = NO valve

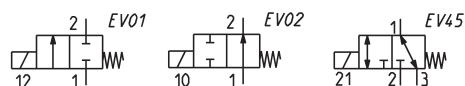
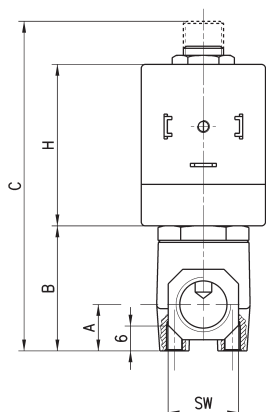
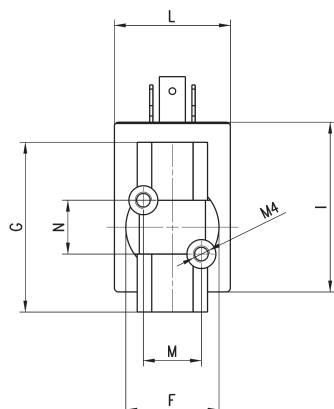


TABLE NOTES:

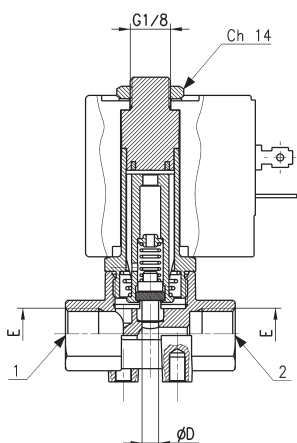
* = choose the suitable solenoid (see the table on page 2/1.30.03).

** = the performances shown in the table refer to the use with inlet from "2" and outlet from "1".

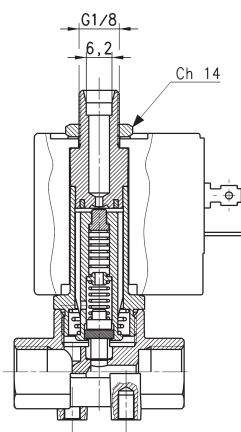
*** = 0 ÷ 4 on demand



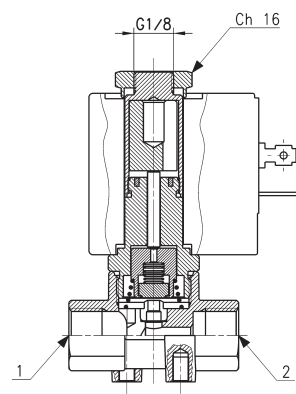
2/2 (X)



3/2



2/2 (Y)



Mod.	Function	Orifice ØD (mm)	Kv [m³/h with water]	Pressure min-max (bar)	A	B	C	E	F	G	SW	H	I	L	N	M	Symbol
CFB-D21C-W1-*	2/2 NC	2.5	0.14	0 ÷ 15 [AC / DC]	11	30	73.8	G1/8	23	41	17	39	41	30	13	14	EV01
CFB-D21F-W1-*	2/2 NC	4	0.25	0 ÷ 6 [AC / DC]	11	30	73.8	G1/8	23	41	17	39	41	30	13	14	EV01
CFB-D22C-W1-*	2/2 NC	2.5	0.14	0 ÷ 15 [AC / DC]	11	30	73.8	G1/4	23	41	17	39	41	30	13	14	EV01
CFB-D22F-W1-*	2/2 NC	4	0.25	0 ÷ 6 [AC / DC]	12	31.5	75	G1/4	26	41	17	39	41	30	13	14	EV01
CFB-D22G-W1-*	2/2 NC	6	0.6	0 ÷ 2.5 [AC / DC] ***	12	31.5	75	G1/4	26	41	17	39	41	30	13	14	EV01
CFB-D23J-R1-*	2/2 NC	8	1	0 ÷ 2 [AC] - 0 ÷ 0.8 [DC]	15	45	89	G3/8	37	55	27	39	47	36	22	22	EV01
CFB-D24J-R1-*	2/2 NC	8	1	0 ÷ 2 [AC] - 0 ÷ 0.8 [DC]	15	45	89	G1/2	37	55	27	39	47	36	22	22	EV01
CFB-D24M-R1-*	2/2 NC	13	2.4	0 ÷ 1 [AC] - /	15	45	89	G1/2	37	55	27	39	47	36	22	22	EV01
CFB-D31A-W1-*	3/2 NC **	1.4	0.06	0 ÷ 14 [AC / DC]	11	30	79.6	G1/8	23	41	17	39	41	30	13	14	EV45
CFB-D31D-W1-*	3/2 NC **	2.8	0.14	0 ÷ 5 [AC / DC]	11	30	79.6	G1/8	23	41	17	39	41	30	13	14	EV45
CFB-D32A-W1-*	3/2 NC **	1.4	0.06	0 ÷ 14 [AC / DC]	11	30	79.6	G1/4	23	41	17	39	41	30	13	14	EV45
CFB-D32D-W1-*	3/2 NC **	2.8	0.14	0 ÷ 5 [AC / DC]	11	30	79.6	G1/4	23	41	17	39	41	30	13	14	EV45
CFB-D11A-W1-*	2/2 NO	1.4	0.07	0 ÷ 22 [AC 50Hz / DC]	11	30	75	G1/8	23	41	17	39	41	30	13	14	EV02
CFB-D12D-W1-*	2/2 NO	2.8	0.20	0 ÷ 7.5 [AC 50Hz / DC]	11	30	75	G1/4	23	41	17	39	41	30	13	14	EV02
CFB-D13J-W1-*	2/2 NO	8	1	0 ÷ 1.5 [AC 50Hz]	15	45	89	G3/8	37	55	27	39	47	36	22	22	EV02



Directly oper. 2/2 NC solenoid valve with linked diaphragm

The diaphragm which is linked to the mobile plunger is a good arrangement between high fluid flow rates and working pressures (zero pressures as well).

Ports: from G3/8 to G1.

The standard diaphragm is supplied in FKM.

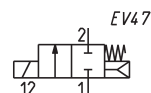
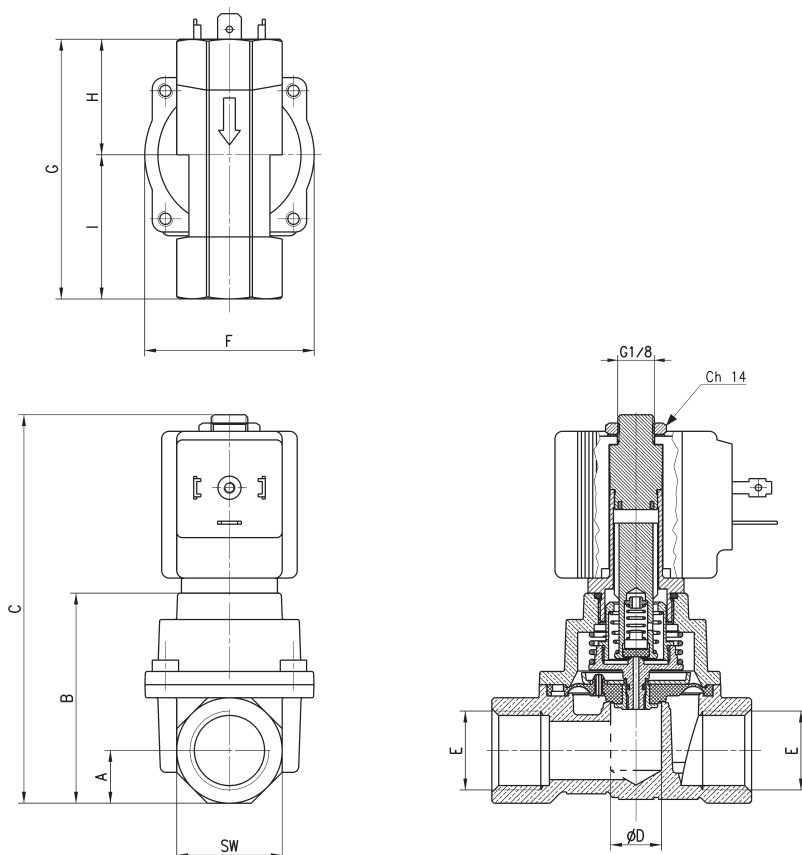


TABLE NOTE:

* = choose the suitable solenoid(see the table on page 2/1.30.03).



Mod.	Function	Orifice ØD (mm)	Kv [m³/h with water]	Pressure min-max (bar)	A	B	C	E	F	G	H	I	SW
CFB-B23L-W1-*	2/2 NC	11.5	2.1	0 ÷ 15 [AC] - 0 ÷ 8 [DC]	14	55.8	103.2	G3/8	45	64	28.2	35.8	28
CFB-B24N-W1-*	2/2 NC	13.5	2.5	0 ÷ 15 [AC] - 0 ÷ 8 [DC]	14	55.8	103.2	G1/2	45	69	30.7	38.3	28
CFB-B25P-W1-*	2/2 NC	18	5	0 ÷ 15 [AC] - 0 ÷ 5 [DC]	21	72	119.4	G3/4	71	93	43.5	49.5	42
CFB-B26R-W1-*	2/2 NC	26	8	0 ÷ 15 [AC] - 0 ÷ 5 [DC]	21	72	119.4	G1	71	93	43.5	49.5	42

Indirectly operated 2/2 NC solenoid valve

The pilot of these indirectly operated solenoid valves controls the diaphragm position through a differential pressure. These valves are therefore particularly suitable for controlling high fluid flow rates and require very low working pressures. Ports: from G3/8 to G2.

The standard diaphragm is supplied in NBR. On demand it can be supplied in FKM or EPDM.

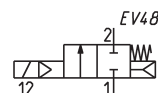
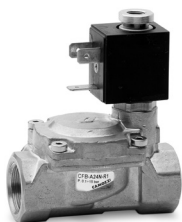
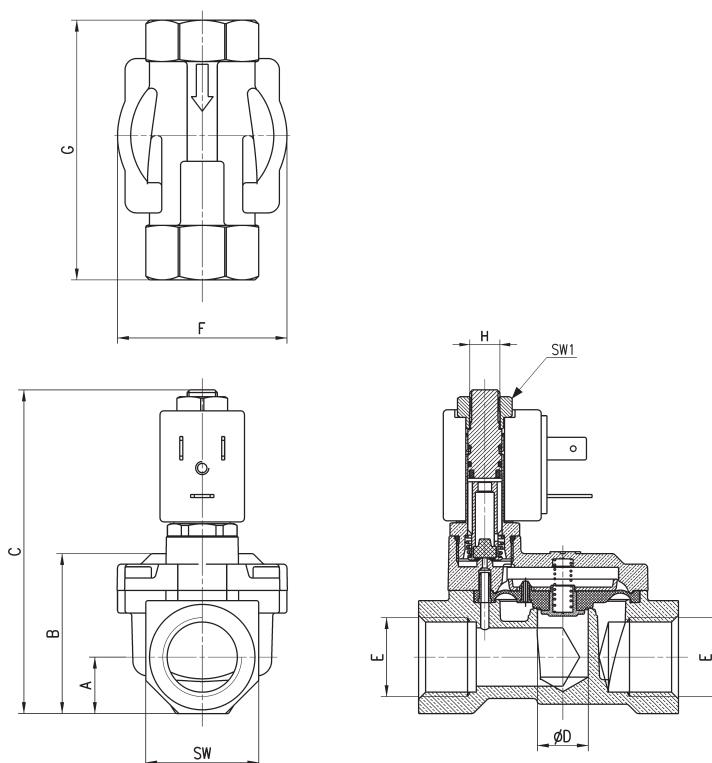


TABLE NOTE:

* = choose the suitable solenoid (see the table on page 2/1.30.03).



Mod.	Function	Orifice ØD (mm)	Kv [m³/h with water]	Pressure min-max (bar)	A	B	C	E	F	G	H	SW	SW1
CFB-A23L-R1-*	2/2 NC	11.5	1.7	0.1 + 15 [AC / DC]	12	32.5	78.5	G3/8	41.9	57	M8x0.75	24	13
CFB-A24N-R1-*	2/2 NC	13.5	3.8	0.1 + 15 [AC / DC]	15	39.7	85.7	G1/2	45	69	M8x0.75	30	13
CFB-A25P-R1-*	2/2 NC	18	5	0.2 + 15 [AC / DC]	18	46.5	91.5	G3/4	54.4	74	M8x0.75	34	13
CFB-A26R-R1-*	2/2 NC	26	11	0.2 + 12 [AC / DC]	22.5	59.8	104.5	G1	71	93	M8x0.75	45	13
CFB-A27T-R1-*	2/2 NC	32	17	0.4 + 12 [AC / DC]	27.5	73.5	130	G1 1/4	86.6	111	G1/8	55	14
CFB-A28X-R1-*	2/2 NC	45	27	0.4 + 10 [AC / DC]	31	85	138.3	G1 1/2	110	138	G1/8	62	14
CFB-A29Z-R1-*	2/2 NC	50	36	0.4 + 10 [AC / DC]	37.5	98.8	152	G2	110	145	G1/8	75	14

Indirectly operated 2/2 NO solenoid valve



The pilot of these indirectly operated solenoid valves controls the diaphragm position through a differential pressure. These valves are therefore particularly suitable for controlling high fluid flow rates and require very low working pressures. Ports: from G3/8 to G2.

The standard diaphragm is supplied in NBR. On demand it can be supplied in FKM or EPDM.

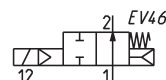
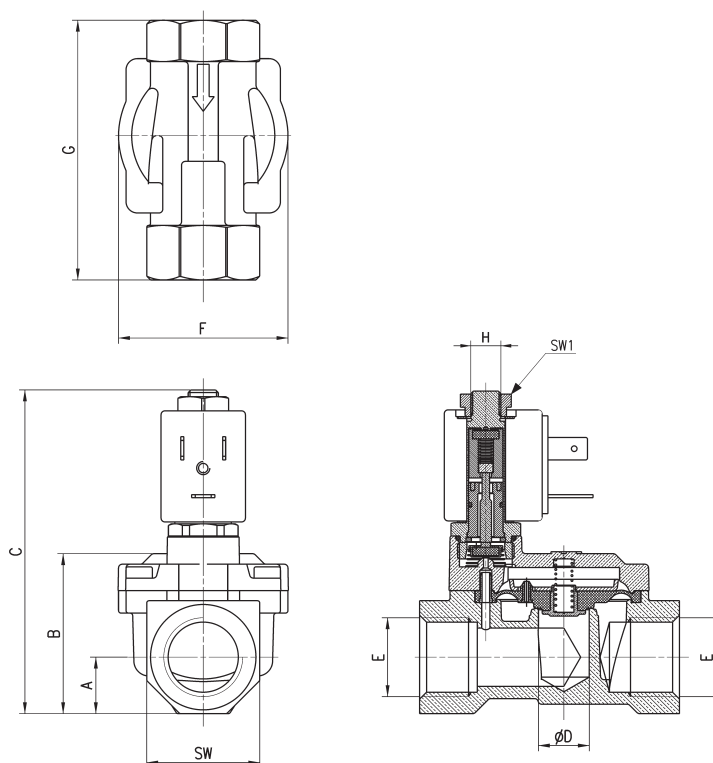


TABLE NOTE:

* = choose the suitable solenoid (see the table on page 2/1.30.03).



Mod.	Function	Orifice ØD (mm)	Kv [m³/h with water]	Pressure min-max (bar)	A	B	C	E	F	G	H	SW	SW1
CFB-A13L-R1-*	2/2 NO	11.5	1.7	0.1 ÷ 15 [AC / DC]	12	32.5	78.5	G3/8	41.9	57	M8x0.75	24	13.5
CFB-A14N-R1-*	2/2 NO	13.5	3.8	0.1 ÷ 15 [AC / DC]	15	39.7	85.7	G1/2	45	69	M8x0.75	30	13.5
CFB-A15P-R1-*	2/2 NO	18	5	0.2 ÷ 15 [AC / DC]	18	46.5	92.7	G3/4	54.4	74	M8x0.75	36	13.5
CFB-A16R-R1-*	2/2 NO	26	11	0.2 ÷ 12 [AC / DC]	22.5	59.8	104.5	G1	71	93	M8x0.75	45	13.5
CFB-A17T-R1-*	2/2 NO	32	17	0.4 ÷ 12 [AC / DC]	27.5	73.5	130	G1 1/4	86.6	111	G1/8	55	14
CFB-A18X-R1-*	2/2 NO	45	27	0.4 ÷ 10 [AC / DC]	31	85	138.3	G1 1/2	110	138	G1/8	62	14
CFB-A19Z-R1-*	2/2 NO	50	36	0.4 ÷ 10 [AC / DC]	37.5	98.8	152	G2	110	145	G1/8	75	14

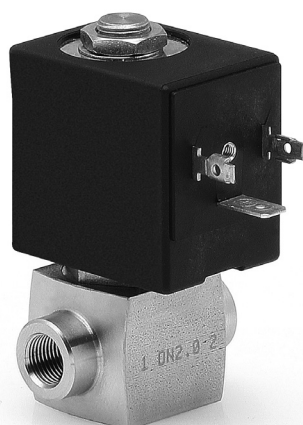
Series CFB stainless steel solenoid valves

New

2/2-way - 3/2-way, Normally Closed (NC)

2

CONTROL



- » Stainless steel version for particularly aggressive environment and fluids
- » High reliability over time, even in hard working conditions
- » Compact dimensions
- » Suitable to control inert and medical gases, alimentary fluids and beverages

The valve function is determined by a poppet and the operation is direct. Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables. They can thus satisfy various requirements in terms of flow rates and working pressures.

Series CFB Stainless Steel directly operated solenoid valves for general purpose, 2/2-way and 3/2-way NC, are the ideal solution for a wide range of applications whereby the environment and fluids used can be particularly aggressive and contaminating. Special versions are available on demand.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 and 3/2 NC
Operation	direct acting poppet type
Pneumatic connections	G1/8 ... G1/2 threads
Nominal diameter	1.5 ... 4 mm
Nominal flow	See Kv
Kv (l/min)	0.08 ... 0.28
Operating pressure	0 ÷ 4 ... 25 bar
Operating temperature	-10°C + +140°C
Media	air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)
Response time	ON <15 msec - OFF <25 msec
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	stainless steel 316L
Seals	FKM (EPDM on demand)
Internal parts	stainless steel

ELECTRICAL FEATURES

Voltage	12 V DC, 24 V DC - 24V AC 50 Hz, 110 V AC 50/60 Hz, 220/230 V AC 50/60 Hz
Voltage tolerance	±5% (DC) - ±10% (AC)
Power consumption	19 W (DC) - 15 VA (AC)
Duty cycle	ED 100%
Electrical connection	H (180°C)
Protection class	DIN 43650 connector, (A Shaped) IP65 with connector

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.

CODING EXAMPLE

CFB	-	D	2	1	A	-	W	X	-	B8	E
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CFB	SERIES
D	OPERATION: D = direct
2	NUMBER OF WAYS - POSITIONS: 2 = 2/2-way NC 3 = 3/2-way NC
1	CONNECTIONS: 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2
A	NOMINAL DIAMETER: A = 1.5 mm B = 2 mm C = 2.5 mm E = 3 mm F = 4 mm
W	SEALS MATERIAL: W = FKM E = EPDM (on demand)
X	BODY MATERIAL: X = stainless steel
B8	SOLENOID DIMENSION: B8 = 30 mm
E	SOLENOID VOLTAGE: B = 24V AC 50 Hz D = 110V AC 50/60 Hz E = 230V AC 50/60 Hz 2 = 12V DC 3 = 24V DC

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

See solenoids and connectors for solenoids in the section 2/2.35.

Mod. B8 = mod.124-800

* = complete the code according to coding example

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
CFB-D21A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)



Directly operated solenoid valve, 2/2 and 3/2 NC

The direct control of these solenoid valves allows to operate with working pressures that are equal to zero.

Ports: from G1/8 to G1/2.

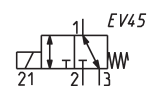
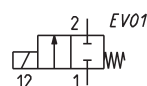
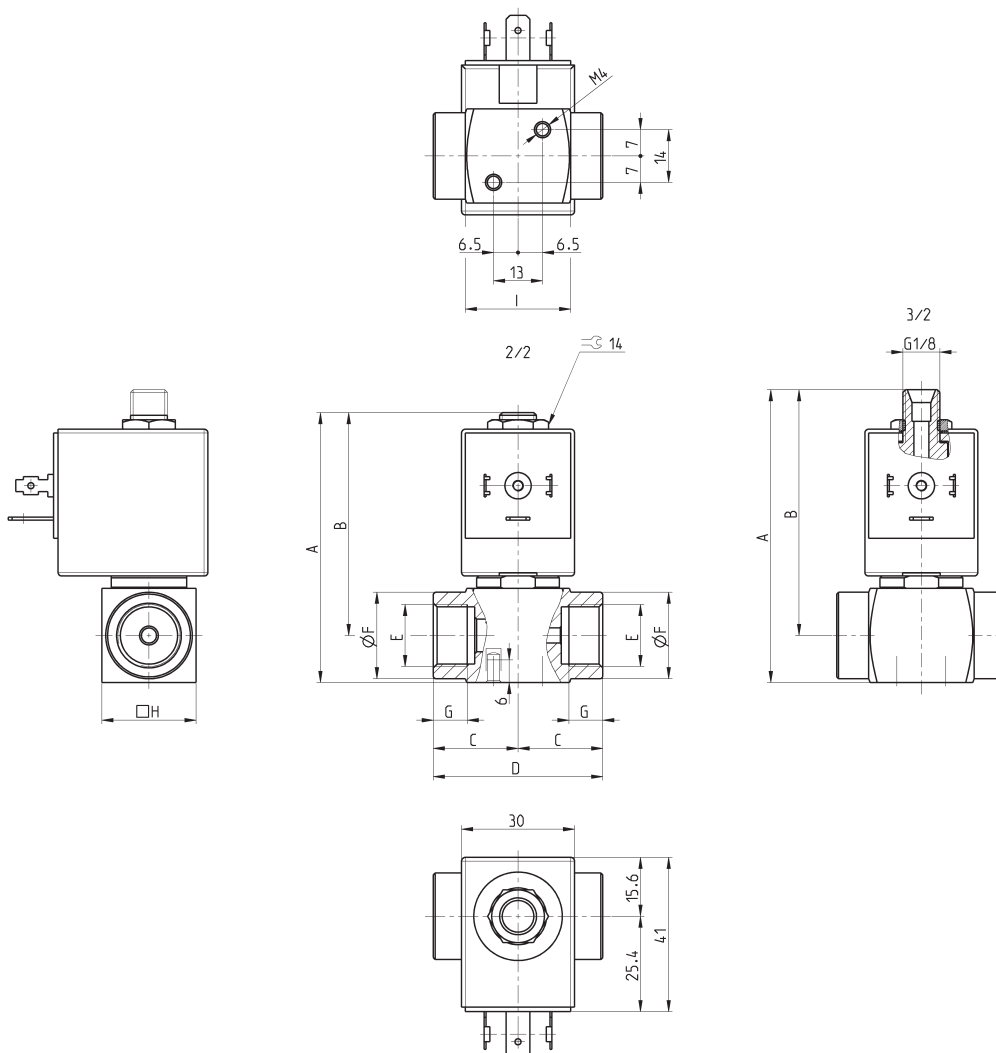


TABLE NOTE:

* = choose the suitable solenoid (see the coupling table).



Mod.	Function	Orifice ØD (mm)	Kv [m³/h with water]	Pressure min-max (bar)	A	B	C	D	E	F	G	H	I	Pneumatic symbol
CFB-D21A-...X-*	2/2 NC	1.5	0.08	0 + 25	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D21B-...X-*	2/2 NC	2	0.10	0 + 22	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D21C-...X-*	2/2 NC	2.5	0.14	0 + 15	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D22B-...X-*	2/2 NC	2	0.10	0 + 22	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D22C-...X-*	2/2 NC	2.5	0.14	0 + 15	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D22E-...X-*	2/2 NC	3	0.18	0 + 10	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D23E-...X-*	2/2 NC	3	0.18	0 + 10	71.7	59.2	22.5	45	G3/8	23	9.5	25	28	EV01
CFB-D23F-...X-*	2/2 NC	4	0.28	0 + 6	71.7	59.2	22.5	45	G3/8	23	9.5	25	28	EV01
CFB-D24E-...X-*	2/2 NC	3	0.18	0 + 10	76.7	61.7	24.5	49	G1/2	27.5	11	30	31	EV01
CFB-D24F-...X-*	2/2 NC	4	0.28	0 + 6	76.7	61.7	24.5	49	G1/2	27.5	11	30	31	EV01
CFB-D32A-...X-*	3/2 NC	1.5	0.08	0+13	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32B-...X-*	3/2 NC	2	0.1	0+9	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32C-...X-*	3/2 NC	2.5	0.14	0+5.5	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32E-...X-*	3/2 NC	3	0.18	0+4	77.8	65.3	21	42	G1/4	18	8	25	28	EV45