

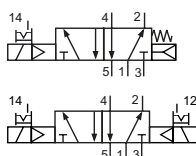
Technical details

Connection	pressure inlets G3/8, exhausts G1/4
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), plastic, seals: NBR, inner parts: Al, steel and plastic
Protection	IP 65 according to EN 60529



Electrically operated spool valve. The manual override is detent/ non-detent. It is operated manually or by screwdriver.

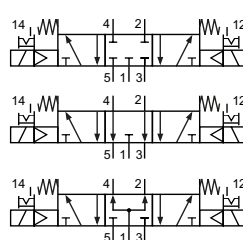
5/2-way-valves



86-MV-5-38-511-xxx
5/2-way, single solenoid, mechanical spring return and air spring return

86-MV-5-38-520-xxx
5/2-way, double solenoid

5/3-way-valves



86-MV-5-38-530-xxx
5/3-way, center position closed

86-MV-5-38-533-xxx
5/3-way, center position exhausted

86-MV-5-38-534-xxx
5/3-way, center position pressurized

Please complete: xxx = electrical option

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx Manual override on same side of ports 2 and 4
24 V DC	3 W		Form B industrial norm	-M42
220 V AC	3.5 VA		Form B industrial norm	-M57

*1 Plug socket with integrated LED are part of delivery

Technical data

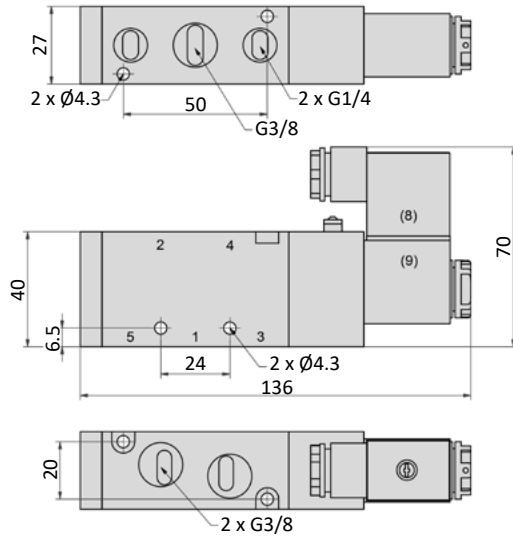
Model-no.:	86-MV-5-38-511	86-MV-5-38-520	86-MV-5-38-530	86-MV-5-38-533	86-MV-5-38-534
Operating pressure (bar)	1.5...8	1.5...8	1.5...8	1.5...8	1.5...8
Nominal size (mm)	6	6	5	5	5
Flow rate (NI/min)	1600	1600	980	980	980
Response time (ms) at 6 bar	20	20	20	20	20
Weight (kg)	0.285	0.395	0.454	0.454	0.454

Series 86-MV-5-38



Dimensions

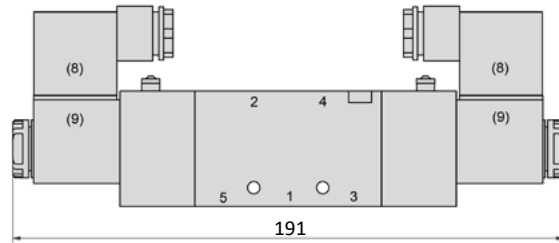
86-MV-5-38-511



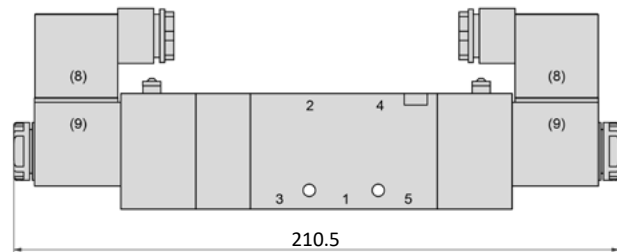
- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts

Plug socket can be repositioned by 180°.
Solenoid coil can be repositioned by 4 x 90°.

86-MV-5-38-520



86-MV-5-38-53x



Accessories



Plug sockets: see page 05



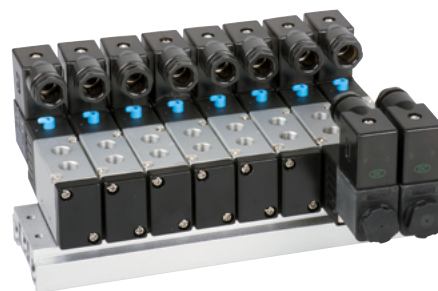
Manifolds: see page 03

General information

Manifolds 86-PRS are available for series 86-MV-5 valves.

The mounting material for the valves (fastening screws and moulded seals) is included in the scope of delivery.

Blind plates for free valve stations 86-PRS-xxx-V are available as a supplement.



Order code

86-PRS-*-*****

Series

Size

100 for series 86-MV-5-18

200 for series 86-MV-5-28, 86-MV-5-14

300 for series 86-MV-5-24, 86-MV-5-38

400 for series 86-MV-5-12

Number of stations

02...20

Size Standard

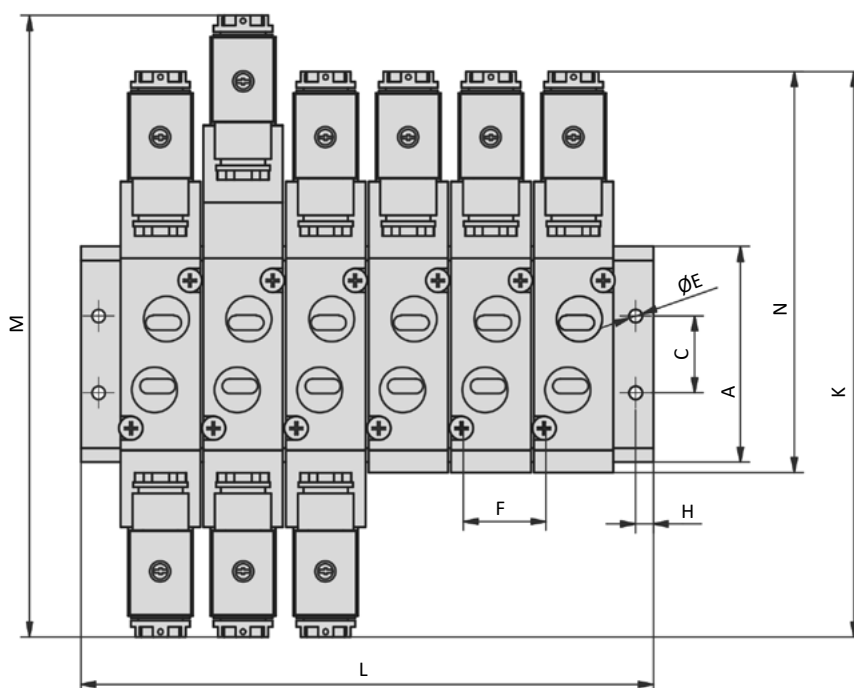
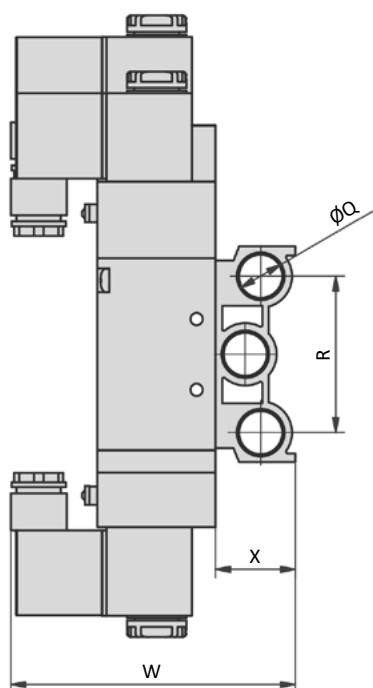
100 02, 04, 06, 08, 10, 12, 14, 16

200 02, 04, 05, 06, 08, 10, 12, 14, 16

300 02, 04, 06

400 02, 04

Dimensions



Voltage code

Series 86-MV-3 and 86-MV-5

- HN * - * * *				
Manual override	Coil and plug options		Coil type	Voltage type Position of the manual override Position of the connector lugs
HN detent and non-detent	1	with coil and plug	according to valve	0 without indication Manual override at 1/3/5
	4	with coil, without plug	according to valve	1 DC Manual override at 1/3/5 Connector lugs at 1/3/5
	5	without coil	no	2 AC Manual override at 1/3/5 Connector lugs at 1/3/5
	7	with coil, with enhanced humidity resistance, without plug	according to valve	4 DC Manual override at 2/4 Connector lugs at 2/4
	8	with coil, with enhanced humidity resistance, with plug	according to valve	5 AC Manual override at 2/4 Connector lugs at 2/4
	H	with coil shape B according to DIN EN 175301-803, with plug	23-SP-011-G	7 without indication Manual override at 2/4
	I	with coil shape B according to DIN EN 175301-803, without plug	23-SP-011-G	A DC Manual override at 1/3/5 Connector lugs at 2/4
	J	with coil shape A according to DIN EN 175301-803, without plug (if not standard)	23-SP-016	B AC Manual override at 1/3/5 Connector lugs at 2/4
	K	with coil shape A according to DIN EN 175301-803, with plug (if not standard)	23-SP-016	D DC Manual override at 2/4 Connector lugs at 1/3/5
	L	with coil, with plug with LED and protective circuit	according to valve	E AC Manual override at 2/4 Connector lugs at 1/3/5
	M	with coil, with plug with LED, without protective circuit	according to valve	
	N	with coil with M12 connection	according to valve	
	O	with coil with M12 connection with LED and protective circuit	according to valve	
	Q	with coil with with cable	according to valve	
	R	with cable up to 1 m length	according to valve	
	T	with pilot valve with M8 connector	according to valve	
		Voltage		
		0	without	
		1	12 V	
		2	24 V	
		3	42 V	
		4	48 V	
		5	110 V	
		6	115 V	
		7	230 V	

Not all options are suitable for all valve series

Plug sockets

Form B industrial norm

Overall width	22 mm
Contact distance	11 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 requires a flat gasket
For use with series	86-MV-5-28, 86-MV-5-14, 86-MV-5-24, 86-MV-5-38, 86-MV-5-12, 86-MV-3, 86-MN-4, 86-MS-3V



Model-no.:	86-ST-04-112	28-ST-04-127
Voltage (AC/DC)	24 V DC	220 V AC
Status indicator	yes	yes
Protective circuit	no	no
Connecting cable	without	without
Wire cross section	max. 1.5 mm ²	max. 1.5 mm ²
Ø Connecting cable	6 - 8 mm	6 - 8 mm

Overall width	22 mm
Contact distance	11 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 requires a flat gasket
For use with series	M-04, M-05, M-07, M-22, KM-09, KM-10, MS-18, KN-05, MN-06, MI-01, MI-02, MI-03



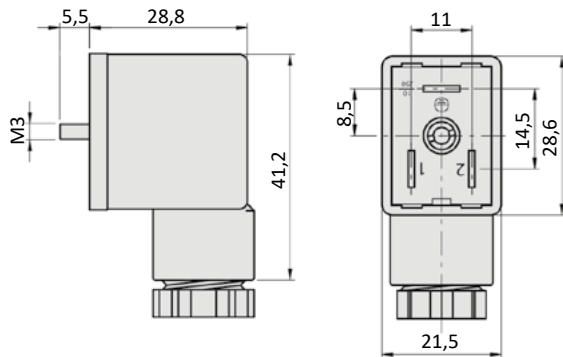
Model-no.:	28-ST-01	28-ST-04-112	28-ST-04-127	28-ST-06-112	28-ST-06-127	28-ST-06-K3-112*	28-ST-06-K3-127*
Voltage (AC/DC)	0 - 250 V	10 - 50 V	70 - 250 V	24 V	230 V	24 V	230 V
Status indicator	no	yes	yes	yes	yes	yes	yes
Protective circuit	no	no	no	yes (varistor)	yes (varistor)	yes (varistor)	yes (varistor)
Connecting cable	without	without	without	without	without	3 m	3 m
Wire cross section	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	3 x 0.75 mm ²	3 x 0.75 mm ²
Ø Connecting cable	6 - 8 mm	6 - 8 mm	6 - 8 mm	6 - 8 mm	6 - 8 mm		

* These plug sockets are fitted with integrated flat gaskets.

Plug sockets

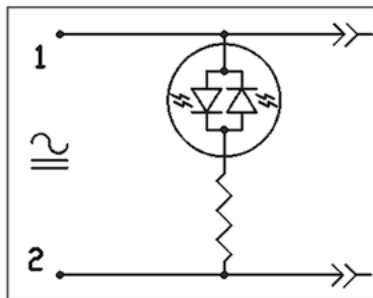
Dimensions

Form B industrial norm

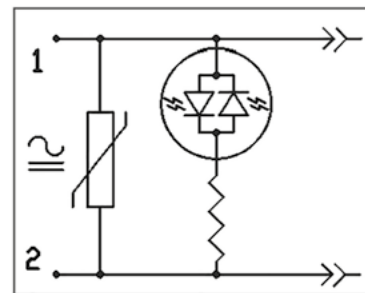


Electrically circuits

Status indicator (LED)



Status indicator (LED) and protective circuit (varistor)



Solenoid coils

Form B industrial norm

Overall width	22 mm
Contact distance	11 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 with connected plug socket
Duty cycle	100 %
Temperature range*	-20°C...+50°C
Voltage tolerance	± 10 %
For use with series	86-MV-5-28, 86-MV-5-14, 86-MV-5-24, 86-MV-5-38, 86-MV-5-12, 86-MV-3, 86-MN-4

* The max. applicable operating temperature depends on the temperature specification of the used valve.



Model-no.:	86-SP-011-412	86-SP-011-427
Voltage	24 V DC	220 V AC
Power consumption DC	3 W	-
Power consumption AC	-	3.5 VA

Overall width	22 mm
Contact distance	11 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 with connected plug socket
Duty cycle	100 %
Voltage tolerance	± 10 %
For use with series	M-04, M-05, M-07, M-22, KM-09, KM-10, MS-18, KN-05, MN-06, MI-01, MI-02, MI-03



Model-no.:	23-SP-011-411	23-SP-011-412	23-SP-011-422	23-SP-011-426	23-SP-011-427	23-SP-012-431	23-SP-012-432
Voltage	12 V DC	24 V DC	24 V AC	115 V AC	230 V AC	12 V DC	24 V DC
Power consumption DC	4.2 W	4.2 W	-	-	-	2.2 W	2.2 W
Power consumption AC	-	-	5 VA	5 VA	5 VA	-	-
Temperature range*	-40°C...+50°C	-40°C...+50°C	-40°C...+50°C	-40°C...+50°C	-40°C...+50°C	-40°C...+50°C	-40°C...+50°C

Model-no.:	23-SP-011-1-711	23-SP-011-1-712	23-SP-011-1-725	23-SP-011-1-727	23-SP-012-1-732
Voltage	12 V DC	24 V DC	110/115 V AC	230 V AC	24 V DC
Power consumption DC	4.2 W	4.2 W	-	-	3 W
Power consumption AC	-	-	6.0 VA/ 7.6 VA	7.9 VA	-
Temperature range*	-40°C...+80°C	-40°C...+80°C	-20°C...+50°C	-20°C...+50°C	-40°C...+80°C
Specifics	enhanced humidity resistance				

* The max. applicable operating temperature depends on the temperature specification of the used valve.

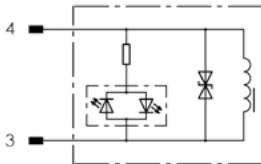
Solenoid coils

M12 connection

Overall width	22 mm
Contact distance	-
Contacts	2P
Protection	IP 65 according to EN 60529 with connected plug socket
Duty cycle	100 %
Temperature range*	-20°C ... +50°C
Voltage tolerance	± 10 %
For use with series	

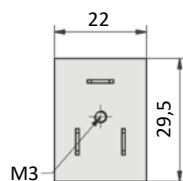
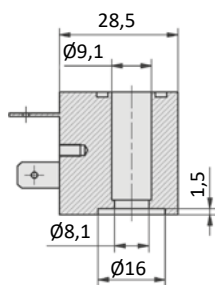


* The max. applicable operating temperature, depends on the temperature specification of the used valve.

Model-no.:	23-SP-011-5-O12	23-SP-012-5-O32
Voltage	24 V DC	24 V DC
Power consumption DC	4.8 W	2.5 W
Power consumption AC	-	-
Specifics	Mounting on manifold not allowed. With integrated LED and protective circuit.	Min. mounting distance for manifold mounting is 20 mm. With integrated LED and protective circuit.
electrical connection		

Dimensions

Form B industrial norm



M12 connection

