

Technical details

Connection BM-01: G1/8

BM-02: G1/4

Nominal size BM-01: 5 mm

BM-02: 7 mm

Temperature range

-10°C ... +60°C

Medium

Materials

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.

Body: Al (anodized), plastic, seals: NBR, FKM and PU, inner parts: Al, steel and plastic

Protection IP 65 according to EN 60529



Electrically operated spool valve. The manual override is non-detent (HNT) or detent (HNR) and is operated by bolt or screw driver.

3/2-way valves



BM-01-310-HNR-xxx BM-02-310-HNR-xxx

3/2-way, single solenoid, air spring

return, NC



BM-01-312-HNR-xxx BM-02-312-HNR-xxx

3/2-way, single solenoid, air spring

return, NO



BME-01-311-HNR-xxx BME-02-311-HNR-xxx

3/2-way, single solenoid, external pilot pressure, mechanical spring

return



BM-01-310-HNT-xxx BM-02-310-HNT-xxx

3/2-way, single solenoid, air spring

return, NC



BM-01-312-HNT-xxx BM-02-312-HNT-xxx

3/2-way, single solenoid, air spring return, NO

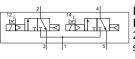
BME-01-311-HNT-xxx BME-02-311-HNT-xxx

3/2-way, single solenoid, external pilot pressure, mechanical spring

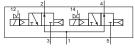
return

Please complete: xxx = electrical option

2 x 3/2-way-valves



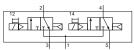
BM-01-310/2-HNR-xxx BM-02-310/2-HNR-xxx 2 x 3/2-way, single solenoid, air spring return, NC



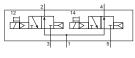
BM-01-312/2-HNR-xxx BM-02-312/2-HNR-xxx 2 x 3/2-way, single solenoid, air spring return, NO



BM-01-314/2-HNR-xxx BM-02-314/2-HNR-xxx



BM-01-310/2-HNT-xxx BM-02-310/2-HNT-xxx 2 x 3/2-way, single solenoid, air spring return, NC



BM-01-312/2-HNT-xxx BM-02-312/2-HNT-xxx 2 x 3/2-way, single solenoid, air spring return, NO



BM-01-314/2-HNT-xxx BM-02-314/2-HNT-xxx 2 x 3/2-way, single solenoid, air spring return, 1 x NC, 1 x NO

Electrical options

				electrical pins on	xx same side of ports
Nominal voltage	Power consumption	Specifics	Plug connection*1	2 or 2 and 4	1, 3 or 1, 3 and 5
12 V DC	1 W		Form C	-461	-431
24 V DC	1 W		Form C	-462	-432
24 V DC	1 W		M12	-N62	-
24 V AC	3 VA		Form C	-452	-422
115 V AC	3 VA		Form C	-456	-426
230 V AC	3 VA		Form C	-457	-427

^{*1} Plug socket not included, suitable plug sockets see page 14.



Technical data

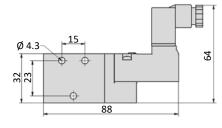
Model-no.:	BM-01-310	BM-01-312	BME-01-311	BM-01-310/2	BM-01-312/2	BM-01-314/2
Operating pressure (bar)	2 8	2 8	-0,95 8	2 8	2 8	2 8
Pilot pressure (bar)	2 8	2 8	3 8	2 8	2 8	2 8
Flow rate (NI/min)	660	600	660	650	550	580
Response time (ms) at 6 bar	on: 19 off: 32	on: 16 off: 30	on: 15 off: 35	on: 18 off: 34	on: 18 off: 34	on: 18 off: 34
Weight (kg)	0,108	0,110	0,115	0,154	0,154	0,154
Model-no.:	BM-02-310	BM-02-312	BME-02-311	BM-02-310/2	BM-02-312/2	BM-02-314/2
Operating pressure (bar)	2 8	2 8	-0,95 8	2 8	2 8	2 8
Pilot pressure (bar)	2 0	2 0				
riiot pressure (bai)	2 8	2 8	3 8	2 8	2 8	2 8
Flow rate (NI/min)	1090	920	3 8	2 8	2 8	2 8 NC: 1050, NO: 920
						NC: 1050,



Dimensions

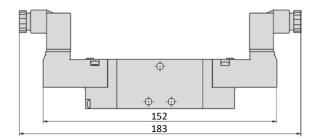
BM-01-31x-HNx

M5 — 104



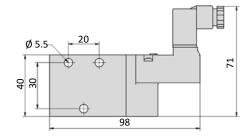


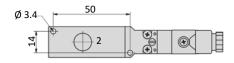
BM-01-31x/2-HNx



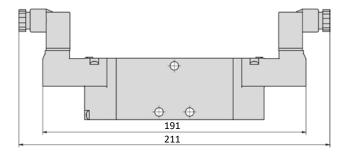
BM-02-31x-HNx

20 113





BM-02-31x/2-HNx



1 = pressure inlet

2,4 = outlets

3,5 = exhausts

6 = pilot air exhaust (only at BM-valves)

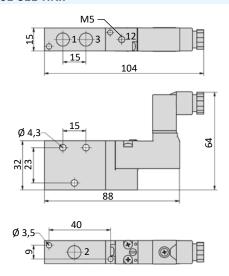
6 = external pilot pressure supply (only at BME-valves)

Plug socket (not included in scope of delivery) can be repositioned by 180°.

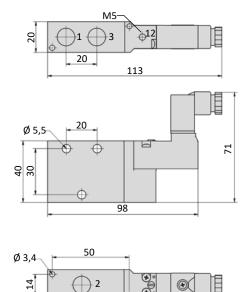


Dimensions

BME-01-311-HNx



BME-02-311-HNx



- 1 = pressure inlet
- 2 = outlets
- 3 = exhausts
- 12 = external pilot pressure supply

Plug socket (not included in scope of delivery) can be repositioned by 180°.



Technical details

Connection BM-01: G1/8

BM-02: G1/4

Nominal size BM-01: 5 mm

BM-02: 7 mm

Temperature range

-10°C ... +60°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.

Body: Al (anodized), plastic, seals: NBR, FKM and PU, inner parts: Al, steel and plastic **Materials**

Protection IP 65 according to EN 60529



Electrically operated spool valve. The manual override is non-detent or detent and is operated by bolt or screw driver.

5/2-way-valves



BM-01-510-HNR-xxx

BM-02-510-HNR-xxx

5/2-way, single solenoid, air spring

return



BM-01-511-HNR-xxx BM-02-511-HNR-xxx

5/2-way, single solenoid, mechanical

spring return



BM-01-520-HNR-xxx BM-02-520-HNR-xxx



5/2-way, double solenoid BME-01-511-HNR-xxx

BME-02-511-HNR-xxx

5/2-way, single solenoid, external pilot pressure, mechanical spring return



BME-01-520-HNR-xxx BME-02-520-HNR-xxx

5/2-way, double solenoid, external

pilot pressure



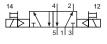
BM-01-510-HNT-xxx BM-02-510-HNT-xxx

5/2-way, single solenoid, air spring return



BM-01-511-HNT-xxx BM-02-511-HNT-xxx

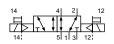
5/2-way, single solenoid, mechanical spring return



BM-01-520-HNT-xxx BM-02-520-HNT-xxx 5/2-way, double solenoid



BME-01-511-HNT-xxx BME-02-511-HNT-xxx 5/2-way, single solenoid, external pilot pressure, mechanical spring

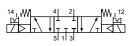


BME-01-520-HNT-xxx BME-02-520-HNT-xxx

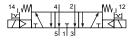
5/2-way, double solenoid, external pilot pressure

Please complete: xxx = electrical option

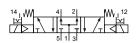
5/3-way-valves



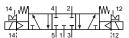
BM-01-530-HNR-xxx BM-02-530-HNR-xxx 5/3-way, center position closed



BM-01-533-HNR-xxx BM-02-533-HNR-xxx 5/3-way, center position exhausted



BM-01-534-HNR-xxx BM-02-534-HNR-xxx



5/3-way, center position pressurized



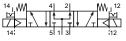
BME-01-530-HNR-xxx BME-02-530-HNR-xxx 5/3-way, center position closed,



external pilot pressure BME-01-533-HNR-xxx



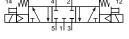
BME-02-533-HNR-xxx 5/3-way, center position exhausted, external pilot pressure



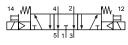
BME-01-534-HNR-xxx BME-02-534-HNR-xxx



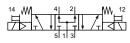
5/3-way, center position pressurized, external pilot pressure



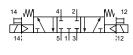
BM-01-530-HNT-xxx BM-02-530-HNT-xxx 5/3-way, center position closed



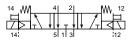
BM-01-533-HNT-xxx BM-02-533-HNT-xxx 5/3-way, center position exhausted



BM-01-534-HNT-xxx BM-02-534-HNT-xxx 5/3-way, center position pressurized



BME-01-530-HNT-xxx BME-02-530-HNT-xxx 5/3-way, center position closed, external pilot pressure



BME-01-533-HNT-xxx BME-02-533-HNT-xxx 5/3-way, center position exhausted,

external pilot pressure

external pilot pressure BME-01-534-HNT-xxx BME-02-534-HNT-xxx 5/3-way, center position pressurized,



Electrical options

				electrical pins on	xx same side of ports
Nominal voltage	Power consumption	Specifics	Plug connection*1	2 and 4	1. 3 and 5
12 V DC	1 W		Form C	-461	-431
24 V DC	1 W		Form C	-462	-432
24 V DC	1 W		M12	-N62	-
24 V AC	3 VA		Form C	-452	-422
115 V AC	3 VA		Form C	-456	-426
230 V AC	3 VA		Form C	-457	-427

^{*1} Plug socket not included. suitable plug sockets see page 14.

Technical data										
Model-no.:	BM-01-510	BM-01-510 BM-01-511		BM-01-520		BME-01-511			BME-01-520	
Operating pressure (bar)	2 8	3 8		2 8		-0.95	8	-0	.95 8	
Pilot pressure (bar)	2 8	3 8		2 8		3 8		2 .	8	
Flow rate (NI/min)	780	800		790		800		79	90	
Response time (ms) at 6 bar	on: 17 off: 32	on: 15 off: 35		on: 13 off: 13		on: 1 off: 3	-		n: 13 f: 13	
Weight (kg)	0.118	0.120		0.156		0.126		0.	168	
Model-no.:	BM-01-530	BM-01-533	BM	-01-534	BME-01	L-530	BME-01-53	33	BME-01-534	
Operating pressure (bar)	3 8	3 8	3 8		-0.95 8	3	-0.95 8		-0.95 8	
Pilot pressure (bar)	3 8	3 8	3 8		3 8		3 8		3 8	
Flow rate (NI/min)	690	670	1030		690		670		1030	
Response time (ms) at 6 bar	on: 17 off: 17	on: 16 off: 43	on: 1 off: 4		on: 17 off: 17		on: 16 off: 43		on: 17 off: 49	
Weight (kg)	0.154	0.154	0.154		0.166		0.166		0.166	
Model-no.:	BM-02-510	BM-02-5	511	BM-0)2-520	BN	ЛЕ-02-511		BME-02-520	
Operating pressure (bar)	2 8	3 8		2 8		-0.95	8	-0	.95 8	
Pilot pressure (bar)	2 8	3 8		2 8		3 8		2 .	8	
Flancemata (NII /maim)	4700	1600		4540		4.000		4 -	- 40	

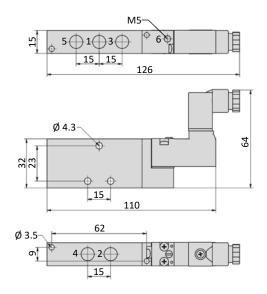
Model-no.:	BM-02-510	BM-02-511	BM-02-520	BME-02-511	BME-02-520
Operating pressure (bar)	2 8	3 8	2 8	-0.95 8	-0.95 8
Pilot pressure (bar)	2 8	3 8	2 8	3 8	2 8
Flow rate (NI/min)	1700	1600	1540	1600	1540
Response time (ms) at 6 bar	on: 23 off: 33	on: 13 off: 35	on: 11 off: 11	on: 13 off: 35	on: 11 off: 11
Weight (kg)	0.220	0.220	0.270	0.220	0.270

Model-no.:	BM-02-530	BM-02-533	BM-02-534	BME-02-530	BME-02-533	BME-02-534
Operating pressure (bar)	3 8	3 8	3 8	-0.95 8	-0.95 8	-0.95 8
Pilot pressure (bar)	3 8	3 8	3 8	3 8	3 8	3 8
Flow rate (NI/min)	1300	1470	1660	1300	1470	1660
Response time (ms) at 6 bar	on: 20 off: 26	on: 26 off: 28	on: 26 off: 33	on: 20 off: 26	on: 26 off: 28	on: 26 off: 33
Weight (kg)	0.260	0.260	0.260	0.260	0.260	0.260

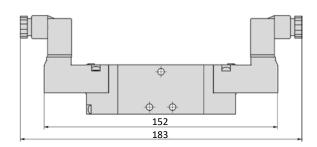


Dimensions

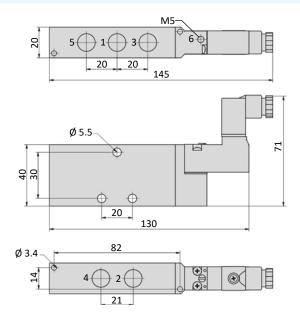
BM-01-51x-HNx, BME-01-51x-HNx



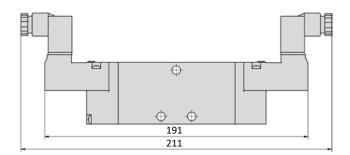
BM-01-520-HNx, BME-01-520-HNx, BM-01-53x-HNx, BME-01-53x-HNx



BM-02-51x-HNx, BME-02-51x-HNx



BM-02-520-HNx, BME-02-520-HNx, BM-02-53x-HNx, BME-02-53x-HNx



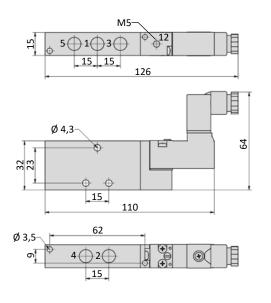
- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 6 = pilot air exhaust

Plug socket (not included in scope of delivery) can be repositioned by 180°.

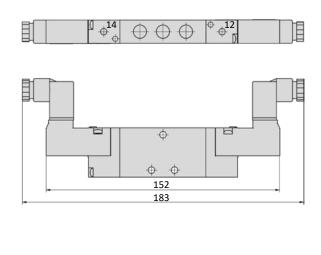


Dimensions

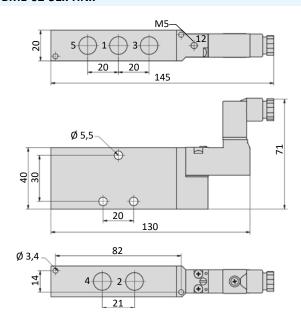
BME-01-51x-HNx



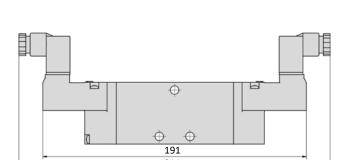
BME-01-520-HNx, BME-01-53x-HNx



BME-02-51x-HNx



BME-02-520-HNx, BME-02-53x-HNx



ф¹²

1 = pressure inlet

2,4 = outlets

3,5 = exhaust

12,14 = external pilot pressure supply

Plug socket (not included in scope of delivery) can be repositioned by 180°.



versions with M8 pilot valve

Technische Merkmale der Baureihe

Connection BM-01: G1/8

BM-02: G1/4

Nominal size BM-01: 5 mm

BM-02: 7 mm

Temperature range -10°C ... +60°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, FKM and PU,

inner parts: Al, steel and plastic

Voltage 24 V DC

Power consumption DC 1 W per pilot valve

Voltage tolerance ± 10 %





Electrically operated spool valve. The valves are equipped with an M8 solenoid system with a non-detent manual override (HNT). The actuation is carried out by means of a suitable tool.

3/2-Wege-Ventile

BM-01-310-HNT-T32 BM-02-310-HNT-T32

3/2-way, single solenoid, air spring

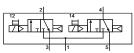
return, NC

BM-01-312-HNT-T32 BM-02-312-HNT-T32

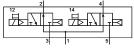
3/2-way, single solenoid, air spring

return, NO

2 x 3/2-Wege-Ventile



BM-01-310/2-HNT-T32 BM-02-310/2-HNT-T32 2 x 3/2-way, single solenoid, air spring return, NC

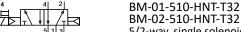


BM-01-312/2-HNT-T32 BM-02-312/2-HNT-T32 2 x 3/2-way, single solenoid, air spring return, NC



BM-01-314/2-HNT-T32 BM-02-314/2-HNT-T32 2 x 3/2-way, single solenoid, air spring return, 1 x NC, 1 x NO

5/2-way-valves



5/2-way, single solenoid, air spring

return

BM-01-511-HNT-T32 BM-02-511-HNT-T32

5/2-way, single solenoid, mechanical

spring return

BM-01-520-HNT-T32 BM-02-520-HNT-T32 5/2-way, double solenoid 5/3-way-valves

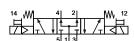


BM-01-530-HNT-T32 BM-02-530-HNT-T32 5/3-way, center position closed



BM-01-533-HNT-T32 BM-02-533-HNT-T32

5/3-way, center position exhausted



BM-01-534-HNT-T32 BM-02-534-HNT-T32

5/3-way, center position pressurized

Series BM-01 and BM-02 versions with M8 pilot valve





Technical data

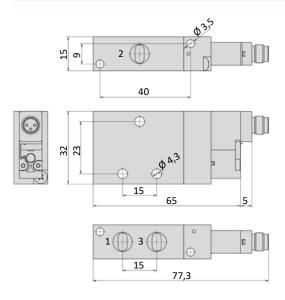
Model-no.:	BM-01-310	BM-01-3	12 BM-01	L-310/2 B	M-01-312/2	BM-01-314/2
Operating pressure (bar)	2 8	2 8	2 8	2	8	2 8
Pilot pressure (bar)	2 8	2 8	2 8	2	8	2 8
Flow rate (NI/min)	660	600	650	550		580
Response time (ms) at 6 bar	on: 19 off: 32	on: 16 off: 30		8 on: 4 off:		on: 18 off: 34
Weight (kg)	0,108	0,110	0,154	0,15	4	0,154
Model-no.:	BM-02-310	BM-02-3	12 BM-02	2-310/2 B	M-02-312/2	BM-02-314/2
Operating pressure (bar)	2 8	2 8	2 8	2	8	2 8
Pilot pressure (bar)	2 8	2 8	2 8	2	8	2 8
Flow rate (NI/min)	1090	920	1050	103		NC: 1050, NO: 920
Response time (ms) at 6 bar	on: 19 off: 23	on: 25 off: 27		2 on: 4 off:		on: 22 off: 24
Weight (kg)	0,150	0,150	0,250	0,25	0	0,250
Model-no.:	BM-01-510	BM-01-511	BM-01-520	BM-01-530	BM-01-533	BM-01-534
Operating pressure (bar)	2 7	3 7	1 7	3 7	3 7	3 7
Pilot pressure (bar)	2 7	3 7	1 7	3 7	3 7	3 7
Flow rate (NI/min)	780	800	790	690	670	1030
Response time (ms) at 6 bar	on: 12 off: 23	on: 12 off: 27	on: 12 off: 12	on: 14 off: 32	on: 14 off: 32	on: 14 off: 32
Weight (kg)	0,098	0,100	0,116	0,114	0,114	0,114
Model-no.:	BM-02-510	BM-02-511	BM-02-520	BM-02-530	BM-02-533	BM-02-534
Operating pressure (bar)	2 7	3 7	2 7	3 7	3 7	3 7
Pilot pressure (bar)	2 7	3 7	2 7	3 7	3 7	3 7
Flow rate (NI/min)	1700	1600	1540	1300	1470	1660
Response time (ms) at 6 bar	on: 12 off: 23	on: 12 off: 27	on: 14 off: 14	on: 16 off: 50	on: 16 off: 50	on: 16 off: 50
Weight (kg)	0,190	0,190	0,210	0,200	0,200	0,200



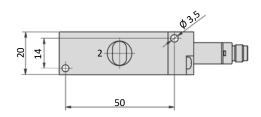
Series BM-01 and BM-02 versions with M8 pilot valve

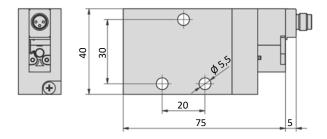
Dimensions

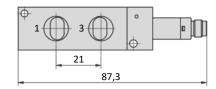
BM-01-31x-HNT-T32



BM-02-31x-HNT-T32







1 = pressure inlet

= outlets

= exhausts

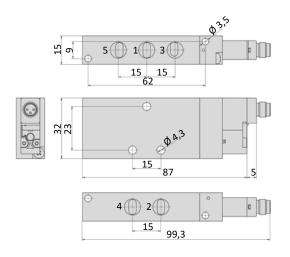
versions with M8 pilot valve

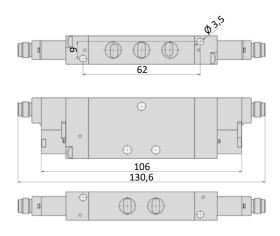


Dimensions

BM-01-51x-HNT-T32

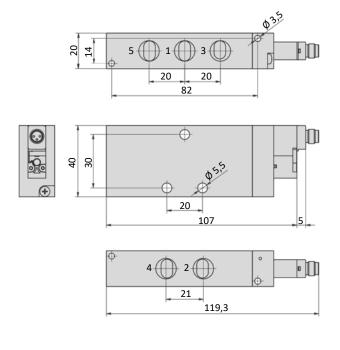
BM-01-520-HNT-T32, BM-01-53x-HNT-T32

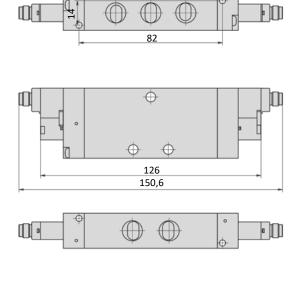




BM-02-51x-HNT-T32

BM-02-520-HNT-T32, BM-02-53x-HNT-T32





1 = pressure inlet 2,4 = outlets 3,5 = exhaust



General information

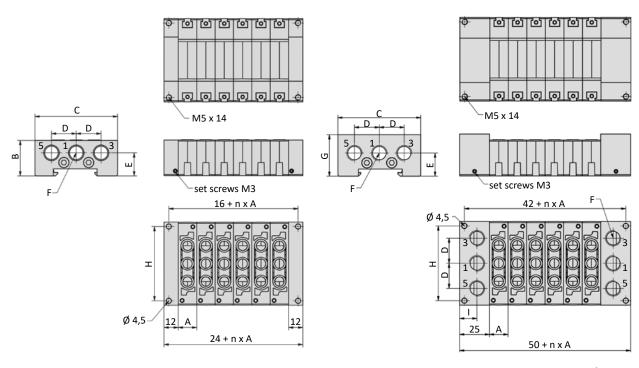
The RF-01-xx/n and RF-02-xx/n manifolds are suitable for the BM-01 and BM-02 valve series. The system is modular and can be extended up to 12 stations. Blanking plates RF-01-V and RF-02-V are available. All mounting screws and gaskets are included.



Dimensions

RF-01-AB, RF-02-AB

RF-01-CD, RF-02-CD



n = number of stations1 = pressure inlet

3,5 = exhausts

Model-no.:	А	В		С	D	E		F	G	F	l	I
RF-01-xx/n	15.7	30)	70	21	19	.5	G1/4	35	62	.5	14.5
RF-02-xx/n	20.5	32	2	90	25	20	0	G3/8	38	8	2	12.5
Model-no.:	nn	02	03	04	05	06	07	08	09	10	11	12
Weight(kg)	RF-01-AB/nn	0.150	0.190	0.230	0.270	0.310	0.350	0.390	0.430	0.470	0.510	0.550
weight(kg)	RF-02-AB/nn	0.230	0.270	0.310	0.350	0.390	0.430	0.470	0.510	0.550	0.590	0.630
Model-no.:	nn	02	03	04	05	06	07	08	09	10	11	12
Weight(kg)	RF-01-CD/nn	0.300	0.340	0.380	0.420	0.460	0.500	0.540	0.580	0.620	0.660	0.700
weight(kg)	RF-02-CD/nn	0.420	0.460	0.500	0.540	0.580	0.620	0.660	0.700	0.740	0.780	0.820

Subject to change $\hspace{1.5cm}1$

Plug sockets



Form C according to DIN EN 175301-803

Overall width	15 mm	
Contact distance	8 mm	
Contacts	2P + E	ATE NOTE OF
Protection	IP 65 according to EN 60529 requires a flat gasket	
For use with series	BM-01. BM-02	

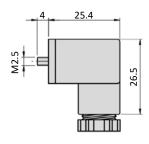
Model-no.:	28-ST-02-1	28-ST-09-1-112	28-ST-09-1-127	28-ST-10-1-112	28-ST-10-1-127	28-ST-10-1-K3-112 *
Voltage (AC/DC)	0 - 250 V	10 - 50 V	70 - 250 V	24 V	230 V	24 V
Status indicator	no	yes	yes	yes	yes	yes
Protective circuit	no	no	no	yes (varistor)	yes (varistor)	yes (varistor)
Connecting cable	without	without	without	without	without	3 m
Wire cross section	max. 0.75 mm²	max. 0.75 mm ²	max. 0.75 mm²	max. 0.75 mm ²	max. 0.75 mm ²	3 x 0.5 mm ²
Ø Connecting cable	4 - 6 mm	4 - 6 mm	4 - 6 mm	4 - 6 mm	4 - 6 mm	

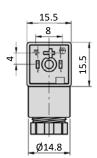
Model-no.:	28-ST-02-1-05
Voltage (AC/DC)	24 V
Status indicator	yes
Protective circuit	yes (varistor)
Connection	M8

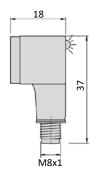


Dimensions

Form C according to DIN EN 175301-803







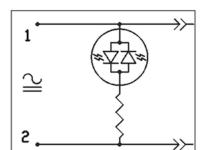
^{*} These plug sockets are fitted with integrated flat gaskets.



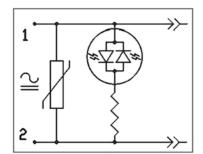
Plug sockets

Electrically circuits

Status indicator (LED)



Status indicator (LED) and protective circuit (varistor)



Pilot valves



Plug connection shape C according to DIN EN 175301-803

Overall width	15 mm
Contact distance	8 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 with connected plug socket
Duty cycle	100 %
Temperature range*	-10°C +50°C
Voltage tolerance	± 10 %
For use with series	BM-01, BM-02

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







3/2-way-valves



23-M-09-19-xxx-R

3/2-way, single solenoid, mechanical spring return, NC, manual override detend

23-M-09-19-xxx-T

3/2-way, single solenoid, mechanical spring return, NC, manual override non-detend

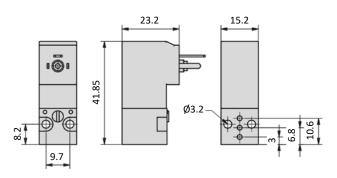
Please complete: xxx = electrical option

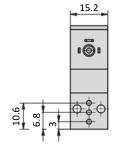
Model-no.:	23-M-09-19-461-y	23-M-09-19-462-y	23-M-09-19-452-y	23-M-09-19-456-y	23-M-09-19-457-y		
Voltage	12 V DC	24 V DC	24 V AC	115 V AC	230 V AC		
Power consumption DC	1 W	1 W	-	-			
Power consumption AC	-	-	3 VA	3 VA	3 VA		
	electric connector on side of manual override						
Model-no.:	23-M-09-19-431-y	23-M-09-19-432-y	23-M-09-19-422-y	23-M-09-19-426-y	23-M-09-19-427-y		
Voltage	12 V DC	24 V DC	24 V AC	115 V AC	230 V AC		
Power consumption DC	1 W	1 W	-	-	-		
Power consumption AC	-	-	3 VA	3 VA	3 VA		
	electric connector opposide of manual override y = manual override (R = detend, T = non-detend)						

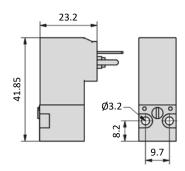
Dimensions

electric connector on side of manual override

electric connector opposite side of manual override









Pilot valves

M12 connection

Overall width	15 mm			
Contact distance	-			
Contacts	M12 plug			
Protection	IP 67 according to EN 60529 with connected plug socket			
Duty cycle	100 %			
Temperature range*	-10°C +50°C			
Voltage tolerance	± 10 %			
For use with series	BM-01, BM-02			



3/2-way-valves



23-M-09-19-xxx-R

3/2-way, single solenoid, mechanical spring return, NC, manual override detend



23-M-09-19-xxx-T

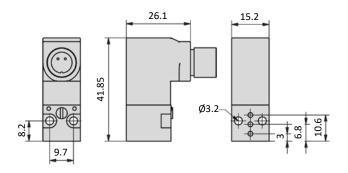
3/2-way, single solenoid, mechanical spring return, NC, manual override non-detend

Please complete: xxx = electrical option

Model-no.:	23-M-09-19-N42-02-T	23-M-09-19-N62-R	23-M-09-19-N62-T		
Voltage	24 V DC	24 V DC	24 V DC		
Power consumption DC	2.5 W	1 W	1 W		
Power consumption AC	-	-	-		
Operating pressure (bar)	010 bar	08 bar	08 bar		
	electric connector on side of manual override				

Dimensions

electric connector on side of manual override



 $^{^{}st}$ The max. applicable operating temperature, depends on the temperature specification of the used valve.

Pilot valves

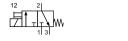


M8 connection

Overall width	10 mm
Contact distance	-
Contacts	M8 plug
Protection	IP 40 according to EN 60529 with connected plug socket
Duty cycle	100 %
Temperature range	-5°C+50°C
Voltage tolerance	± 10 %
For use with series	BM-01, BM-02



3/2-Wege-Ventil

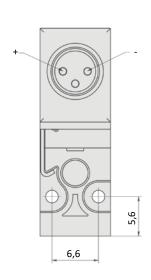


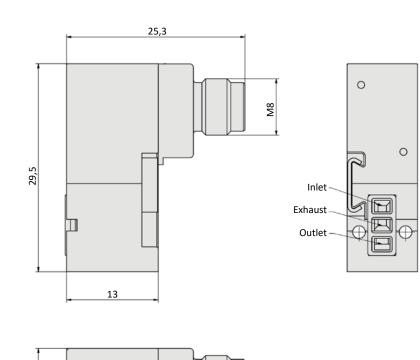
23-M-10-T32-T 3/2-way, single solenoid, mechanical spring return, NC, manual override non-detend

Model-no.:	23-M-10-T32-T				
Voltage	24 V DC				
Power consumption DC	1 W				
Nominal size (mm)	0,7				
Operating pressure (bar)	1,57 bar				

Dimensions

electric connector on side of manual override





10



Voltage code

			- <u>HN *</u> - * * *					
	*							
Manu	ual override		Coil and plug options	Coil type		Manual override osition on side of		Voltage
HN HNR	detent detent	0	ATEX 2GD, encapsulated with casting compound width 30 mm	23-SP-037	0	without indication ports 1/3/(5)	0	without indi- cation
HNT	non-detent	1	with coil and plug	according to valve	1	DC ports 1/3/(5)	1	12 V 24 V
		3	with coil, power consumption different from standard, without plug	shape according valve series	2	AC ports 1/3/(5)	3	42 V
		4	with coil, without plug	according to valve		DC, low power	4	48 V
		5	without coil	no	3	consumption ports 1/3/(5)	5	110 V
		6	without pilot valve	no		DC	6	115 V
		7	with coil, with enhanced humidity resistance, without plug	according to valve	4	ports 2/(4) AC	7	230 V 240 V
		8	with coil, with enhanced humidity resistance, with plug	according to valve	5	ports 2/(4) DC, low power	9	
		9	ATEX 2GD, intrinsically safe, with plug width 30 mm	23-SP-038	6	consumption ports 2/(4)	A B	4 V 6 V
		Α	ATEX 3GD, without plug, width 30 mm	23-SP-040	7	without indication	С	8 V
		В	ATEX 3GD, with plug, width 30 mm	23-SP-040	/ ports 2/(4)		D	61 V
		С	ATEX 3GD, without plug, width 22 mm	23-SP-041			Е	36 V
		D E					F	9 V
		F	with coil, with enhanced humidity resistance, without plug, low temperature version	23-SP-011-1-711 23-SP-011-1-712				
		G						
		Н	with coil shape B according to DIN EN 175301- 803, with plug	23-SP-011-G				
		ı	with coil shape B according to DIN EN 175301- 803, without plug	23-SP-011-G				
		J	with coil shape A according to DIN EN 175301- 803, without plug (if not standard)	23-SP-016				
		K	with coil shape A according to DIN EN 175301-803, with plug (if not standard)	23-SP-016				
		L	with coil, with plug with LED and protective circuit	according to valve				
		M	with coil, with plug with LED, without protective circuit	according to valve				
		Ν	with coil with M12 connection	according to valve				
		0	with coil with M12 connection with LED and protective circuit	according to valve				
		Р	without connector bridge, without plug					
		Q	with coil with with cable	according to valve				
		R	with cable up to 1 m length	according to valve				
		S	with connector bridge, without plug					
		Т	with coil with M8 connection	according to valve				
		U	ATEX 2GD, without coil (for coil 23-SP-036)	no				
		V	ATEX 2GD, Flame proof enclosuresand encapsulated with casting compound	23-SP-045				
		W	ATEX 2GD / 3GD, without coil (for coil 23-SP-041 and 23-SP-045)	no				
		X	ATEX 3GD, without coil (for coil 23-SP-040 in 230V AC and 115V AC)	no				
		Υ	ATEX 2GD, without coil (for coil 23-SP-038)	no		Not all options are	suitah	le for all valve
		Z	ATEX 2GD / 3GD, without coil (for coil 23-SP-040 in 24V DC and 23-SP-037)	no	series			,,