

Series M-20

Technical details

Connection Nominal size Temperature range	M5 3 mm -10°C +70°C	axtize I
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	La statistica (Ref.
Protection	IP 65 according to EN 60529	

Electrically operated spool valve. The manual override is detent and is operated by screw driver.

5/2-way-valves



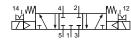
M-20-510-HN-xxx 5/2-way, single solenoid, air spring return

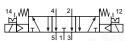
M-20-520-HN-xxx 5/2-way, double solenoid

Please complete:

xxx = electrical option

5/3-way-valves





M-20-530-HN-xxx 5/3-way, center position closed

M-20-533-HN-xxx 5/3-way, center position exhausted

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection ^{*1}	-ххх		
12 V DC	2 W		Form C industrial norm	-411		
24 V DC	2 W		Form C industrial norm	-412		
	*1 Plug sockat pat included suitable plug sockats sag page 02					

¹Plug socket not included, suitable plug sockets see page 03.

Series M-20



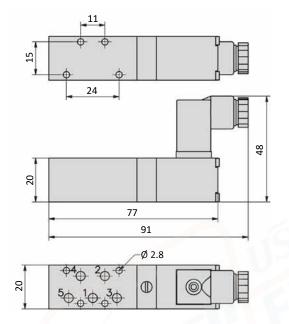
Technical data

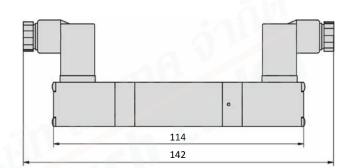
Model-no.:	M-20-510	M-20-520	M-20-530	M-20-533
Operating pressure (bar)	2.5 8	2.5 8	3 8	3 8
Pilot pressure (bar)	2.5 8	2.5 8	3 8	3 8
Flow rate (NI/min)	220	220	220	220
Response time (ms) at 6 bar	on: 12 off: 12	on: 11 off: 11	on: 15 off: 22	on: 15 off: 22
Weight (kg)	0.098	0.156	0.162	0.162

Dimensions

M-20-510-HN

M-20-520-HN, M-20-53x-HN







Plug sockets

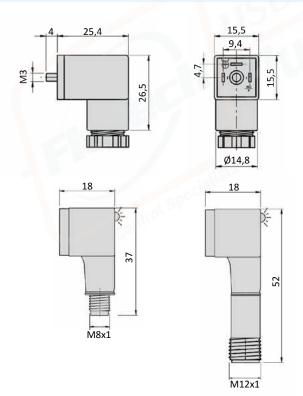
Form C Industrienorm

Baubreite	15 mm								
Kontaktabstand	9,4 mm								
Kontakte	2P + E						1 12	North Party	
Schutzart	IP 65 nach EN 60)529 in Verbi	ndun	g mit Flachdichtun	t Flachdichtung				
Einsatz für Baureihe	M-20, MC-20, M	ID-20, MS-20	20						
Model-no.:	28-ST-02-01	28-ST-09-	112	28-ST-09-127	28-ST	-10-112	28-ST-10-127	28-ST-10-K3-112 *	
Voltage (AC/DC)	0 - 250 V	10 - 50 V		70 - 250 V	24 V		230 V	24 V yes	
Status indicator	no	yes		yes	yes		yes		
Protective circuit	no	without without		no	yes (va	ristor)	yes (varistor)	yes (varistor) 3 m	
Connecting cable	without			without	withou	t	without		
Wire cross section	max. 0.75 mm ²			max. 0.75 mm ²	max. 0.75 mm ²		max. 0.75 mm ²	3 x 0.5 mm²	
Ø Connecting cable	4 - 6 mm	4 - 6 mm		4 - 6 mm	4 - 6 mm		4 - 6 mm		
Model-no.:	28-ST-02-2	-05	2	8-ST-02-2-07					
	age (AC/DC) 24 V 24 V us indicator yes yes					1	-		
Status indicator				ristor)		1	1002	and the second	
Protective circuit						4	-1	N.	
	, , ,								
Connection	M8	IV	112						

* These plug sockets are fitted with integrated flat gaskets.

Abmessungen

Form C Industrienorm



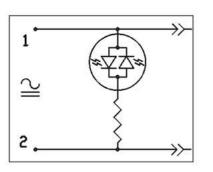
Plug sockets

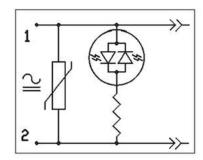


Electrically circuits

Status indicator (LED)

Status indicator (LED) and protective circuit (varistor)









Solenoid coils

Form C industrial norm

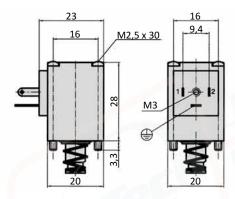
Overall width	20 mm
Contact distance	9,4 mm
Contacts	2P + E
Protection	IP 65 according to EN 60529 with connected plug socket
Duty cycle	100 %
Temperature range*	-20°C+50°C
Voltage tolerance	± 10 %
For use with series	M-20, MS-20, MC-20, MD-20

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

Model-no.:	23-M-20-411	23-M-20-412
Voltage	12 V DC	24 V DC
Power consumption DC	2 W	2 W
Power consumption AC	-	

Dimensions

Form C industrial norm



Voltage code



			- <u>HN *</u> - * * *					
	V		↓└╧═			•		•
Manı	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 ind cation
HNT	non-detent	1	with coil and plug	according to valve	1	DC ports 1/3/(5)	1	12 V
		2				AC	2	24 V
		3	with coil, power consumption different from standard, without plug	shape according valve series	2	ports 1/3/(5)	3	42 V
		4	with coil, without plug	according to valve	2	DC, low power	4	48 V
		5	without coil	no	3	consumption ports 1/3/(5)	5	110 V
		6	without pilot valve	no	Λ	DC	6	115 V
		7	with coil, with enhanced humidity resistance, without plug	according to valve	4	ports 2/(4) AC	7 8	230 V 240 V
		8	with coil, with enhanced humidity resistance, with plug	according to valve	5	ports 2/(4)	9	240 V
		•	ATEX 2GD, intrinsically safe, with plug		6	DC, low power consumption	А	4 V
		9	width 30 mm	23-SP-038		ports 2/(4)	В	6 V
		А	ATEX 3GD, without plug, width 30 mm	23-SP-040	7	without indication ports 2/(4)	С	8 V
		В	ATEX 3GD, with plug, width 30 mm	23-SP-040		ports 27(4)	D	61 V
		С	ATEX 3GD, without plug, width 22 mm	23-SP-041			E	36 V
		D					F	9 V
		Е						
		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				
		I	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				
		К	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				
		М	with coil, with plug with LED, without protec- tive 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						
		U	ATEX 2GD, without coil (for coil 23-SP-036)	no				
		v	ATEX 2GD, Flame proof enclosuresand en- capsulated with casting compound	23-SP-045				
		w	ATEX 2GD / 3GD, without coil (for coil 23-SP-041 and 23-SP-045)	no				
		х	ATEX 3GD, without coil (for coil 23-SP-040 in 230V AC and 115V AC)	no				
		Y	ATEX 2GD, without coil (for coil 23-SP-038)	no				
		Z	ATEX 2GD / 3GD, without coil (for coil 23-SP-040 in 24V DC and 23-SP-037)	no		Not all options are series	suitak	ole for all val
			(10, 300, 20, 51, 0, 10, 10, 274, 10, and 25, 51, -057)					