

Series M-20

Technical details

Connection M5 Nominal size 3 mm -10°C ... +70°C Temperature range

Medium

Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Alternatively the pressure dew point must be at

least 10 $^{\circ}\text{C}$ 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 and is operated by screw driver.



5/2-way-valves

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

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

Please complete: xxx = electrical option

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 socket not included, suitable plug sockets see page 03.

Series M-20



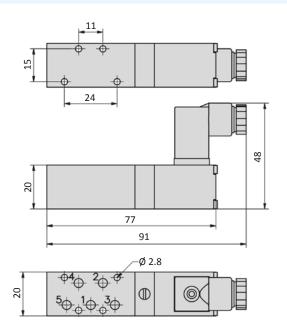
Technical data

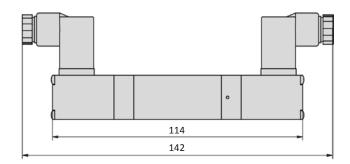
Model-no.:	M-20-510	M-20-520	M-20-530	M-20-533
Operating pressure (bar)	2.5 8	2.5 8	3 8	3 8
Pilot pressure (bar)	2.5 8	2.5 8	3 8	3 8
Flow rate (NI/min)	220	220	220	220
Response time (ms) at 6 bar	on: 12 off: 12	on: 11 off: 11	on: 15 off: 22	on: 15 off: 22
Weight (kg)	0.098	0.156	0.162	0.162

Dimensions

M-20-510-HN

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





O2 Subject to change



Plug sockets

Form C Industrienorm

Baubreite	15 mm		
Kontaktabstand	9,4 mm		CO
Kontakte	2P + E	1 3	
Schutzart	IP 65 nach EN 60529 in Verbindung mit Flachdichtung	14	The state of the s
Finestz für Bauroiko	M 20 MC 20 MD 20 MS 20		

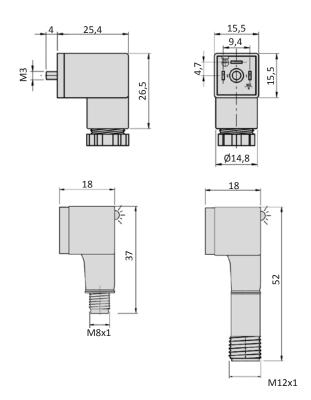
Bestell-Nr.:	28-ST-02-01	28-ST-09-112	28-ST-10-112	28-ST-10-K3-112
Spannung (AC/DC)	0 - 250 V	10 - 50 V	24 V	24 V
Statusanzeige	nein	ja	ja	ja
Schutzbeschaltung	nein	nein	ja (Varistor)	ja (Varistor)
Anschlusskabel	ohne	ohne	ohne	3 m
Kabelquerschnitt	max. 0,75 mm ²	max. 0,75 mm ²	max. 0,75 mm²	3 x 0,5 mm ²
Kabeldurchmesser	4 - 6 mm	4 - 6 mm	4 - 6 mm	
Bestell-Nr.:	28-ST-02-2-05	28-ST-02-2-07		PHILIP.

Bestell-Nr.:	28-ST-02-2-05	28-ST-02-2-07			
Spannung (AC/DC)	24 V	24 V			
Statusanzeige	ja	ja			
Schutzbeschaltung	ja (Varistor)	ja (Varistor)			
Anschluss	M8 Stecker	M12 Stecker			



Abmessungen

Form C Industrienorm



Subject to change 03

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

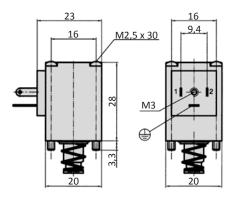


 $^{^{}st}$ The max. applicable operating temperature, depends on the temperature specification of the used valve.

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



04 Subject to change



Voltage code

			- HN * - * * *					
	*		*			•		▼
Manu	ial 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	1	12 V
		2				ports 1/3/(5) AC	2	24 V
		3			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	4	DC	6	115 V
		7	with coil, with enhanced humidity resistance, without plug	according to valve		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	240 0
		9	ATEX 2GD, intrinsically safe, with plug width 30 mm	23-SP-038	6	consumption ports 2/(4)	A	4 V
		Α	ATEX 3GD, without plug, width 30 mm	23-SP-040		without indication	В	6 V
		В	ATEX 3GD, with plug, width 30 mm	23-SP-040	7	ports 2/(4)	С	8 V
		С	ATEX 3GD, without plug, width 22 mm	23-SP-041			D	61 V
		D				E	36 V	
		Ε	ATEX 2GD, encapsulated with casting compound width 22 mm	23-SP-036			F	9 V
		F	with coil, with enhanced humidity resistance, without plug, low temperature version	23-SP-060-1				
		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				
		М	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						
		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				
		Χ	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 s	uitab	le for all valve
		Z	ATEX 2GD / 3GD, without coil (for coil 23-SP-040 in 24V DC and 23-SP-037)	no		series		

Subject to change 01