



Order of	code
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MI-02-510-HN-412

eries nd		options
Inction	Standard coil ¹⁾	Without coil and plug socket
	411 = 12 V DC, 4.2 W	500 = Power consumption 4.2 W, 7/4 VA
	412 = 24 V DC, 4.2 W	530 = Power consumption 2.2 W^{2}
	422 = 24 V AC, 7/4 VA	Coils with M12 connector and LED
	426 = 115 V AC, 7/4 VA	012 = 24 V DC, 4.8 W
	427 = 230 V AC, 7/4 VA	$O32 = 24 \text{ V DC}, 2.5 \text{ W}^2$
	431 = 12 V DC, 2.2 W ²⁾	032 = 24 V DO, 2.3 W
	432 = 24 V DC, 2.2 W ²⁾	Coils with higher humidity resistance
		712 = 24 V DC, 4.2 W without plug socket
cket see page 5.102.		727 = 230 V AC, 7/4 VA without plug socket

Design, function and technical data

Spool valve actuated by an electrical signal. The mounting screws and seals are included. Please specify required control voltage when ordering.

Valves of this series are available in explosion proof design in accordance with 2014/34/EU (ATEX). For further details see chapter 13 of this catalogue.



²⁾ max. 8 bar (max. 116 psi) at 2.2 W and 2.5 W.



Note:

Accessories for solenoid coils, actuators and plug sockets see page 5.102.

Sub-base mounting



Sub-base will be delivered completely assembled with valves if requested.



Assembled sub-base with *n* stations. ISO 5599/1, VDMA 24345 type C and D **MI-023/n**



Single sub-base, ports on side ISO 5599/1, VDMA 24345 type A MI-021



Single sub-base, all ports on bottom ISO 5599/1, VDMA 24345 type B MI-022



Modular element, one station ISO 5599/1, VDMA 24345 type C MI-023



Endplatten (1 Paar) nach ISO 5599/1, VDMA 24345 Form D MI-02/E



Blind plate for blank valve station **MI-02-V**

Other single elements:

20-1-02-02

Seal disc for use between valve and sub-base.

Accessories for standardized valve series

MI-01 (ISO-1), MI-02 (ISO-2), MI-03 (ISO-3)



Solenoid coils,	actuators		
Solenoid coils	23-SP-011 23-SP-012 23-SP-011-5-012 23-SP-012-5-032 (2)-explosion proof	Standard coil Coil with 2,2 W power consumption Coil with M12 plug connection, 4,8 W, LED and circuit protection Coil with M12 plug connection, 2,5 W, LED and circuit protection Valves with explosion proof actuator see chapter 13	page 4.280 page 4.280 page 4.282 page 4.282
Actuators	23-R-013 23-R-014	Standard actuator Low power actuator	
Plug sockets	28-ST-01 28-ST-04 28-ST-06 28-ST-06-K3	Standard plug socket Plug socket with LED Plug socket with LED and circuit protection Plug socket with LED, circuit protection and cable	page 4.283 page 4.283 page 4.283 page 4.283

User information

Low power consumption coils (2.2 W or 2.5 W) are for pressures up to 8 bar (116 psi) only. Valve actuator 23-R-014 is required. The actuator 23-R-014 is nickel plated. Make sure that the coils with the right power consumption are used.

For outdoor applications or in areas with high humidity, use coil 23-SP-011-1-... or 23-SP-012-1-... (see page 4.280).

The following types are available on request

Coils and sockets with contacts according to DIN EN 175301-803 type B (U-form). Plug sockets with molded cable.



Accessories for electrically operated valves

Solenoid coils







Solenoid coils with connection pattern pursuant to DIN EN 175301-803 Shape B

Order number	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
Standard 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 50 Hz			4 VA	4 VA	4 VA		
Degree of protection	IP 65 according to EN 60529 with connected plug socket						
Duty cycle	100 %	100 %					
Temperature range	- 20 ℃ +	– 20 °C + 50 °C (– 4 °F + 122 °F)					
Voltage tolerance	± 10 %						
Standard for series	MS-18, M-04, M-05, M-07, M-22, KM-09. KM-10, MF-05, MF-07, MN-06, KN-05, MI-01, MI-02, MI-03						

Other voltages on request.

Solenoid coils with connection pattern pursuant to DIN EN 175301-803 Shape B (with enhanced humidity resistance)

Order number	23-SP-011-1-711	23-SP-011-1-712	23-SP-011-1-712	23-SP-011-1-722	23-SP-011-1-725	23-SP-011-1-727	23-SP-012-1-732	
Standard voltage	12 V DC/24 V AC	24 V DC	48 V AC	12 V DC/24 V AC	110 V AC	230 V AC	24 V DC	
Power consumption DC	4.6 W	4.8 W	-	5.5 W	-	-	2.5 W	
Power consumption 50 Hz	7.1 VA	7.1 VA – 7.7 VA 8.9 VA 8.5 VA 7.9 VA						
Degree of protection	IP 65 according to EN 60529 with connected plug socket *1							
Duty cycle	100 %	100 %						
Temperature range	– 20 °C + 50 °C (– 4 °F + 122 °F)							
Voltage tolerance	± 10 %							
Standard for series	KMX-09, KMX-10, ICK-09, ICK-10, KN-55, KNX-55, ICKN-55							

*1: IP67 pursuant to EN 60529 with plug socket and sealing set 20-SP-011/012-02

Solenoid coils with M12 connection, with LED and protective circuit.





Order number	23-SP-011-5-O12	23-SP-012-5-O32			
Standard voltage	24 V DC	24 V DC			
Power consumption	4.8 W 2.5 W				
Degree of protection	IP 65 according to EN 60529 with connected cable				
Duty cycle	100 %				
Temperature range	- 20 ℃ + 50 ℃				
Voltage tolerance	± 10 %				



Plug sockets pursuant to DIN EN 175301-803 Shape B

(2pol. + PE, 21 x 28 mm, Contact distance 11 mm)









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28.5 M3		4
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Order number	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
Standard voltage	all	24 V DC	230 V AC	24 V DC	230 V AC	24 V DC	230 V AC
Protective circuit	no	no	no	yes	yes	yes	yes
Status indicator	without	yes	yes	yes	yes	yes	yes
Degree of protection	IP 65 pursuar	IP 65 pursuant to EN 60529 requires a flat gasket					
Connecting cable	without	without 3 m 3m					3m
Ø Connecting cable	6 – 8 mm	6 – 8 mm –					-
Max. wire cross section	1,5 mm ²	1,5 mm ² –				-	-
for coil	23-SP-011, 23-SP-011-1						