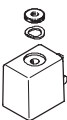
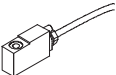
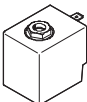


Solenoid coils MSF/MSN1/MD-2/MH-2

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Product range overview

Version	Type	For valve series										➔ Page/ Internet
		MFH	MOFH	JMFH	JMFDH	NVF3	MUFH	MN1H	JMN1H	JMN1DH	VZWM-L	
F solenoid coil												
	MSF	■	■	■	■	■	■	-	-	-	-	4
F solenoid coil for explosive atmospheres (with ATEX certification)												
	MSF...-EX	■	■	■	■	■	■	-	-	-	-	6
N1 solenoid coil												
	MSN1 ¹⁾	-	-	-	-	-	-	■	■	■	-	9
H solenoid coil												
	MH-2	-	-	-	-	-	-	-	-	-	■	11
D solenoid coil												
	MD-2	-	-	-	-	-	-	-	-	-	■	11

1) Free of copper, PTFE and silicone

Note

ATEX certification is only effective in combination with other ATEX-certified components.

→ www.festo.com/en/ex

Solenoid coils MSF/MSN1/MD-2/MH-2

Selection aid

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Solenoid valves and corresponding solenoid coils														
Valve series	Valve type	Solenoid coil												
		D	E	EB	F	H	N1	N2	V	Y	Z	ZB	ZC	
ISO 15407-1	MN2H, JMN2H, JMN2DH	–	–	–	–	–	–	–	■	–	–	–		
ISO 5599-1	MN1H, JMN1H, JMN1DH	–	–	–	–	–	–	■	–	–	–	–	–	–
	MFH, JMFH, JMFDH	–	–	–	■	–	–	–	–	–	–	–	–	–
	MDH, JMDH	■	–	–	–	–	–	–	–	–	–	–	–	–
	MEBH, JMEBH, JMEBDH	–	–	■	–	–	–	–	–	–	–	–	–	–
Namur	NVF3	–	–	–	■	–	–	–	–	–	–	–	–	–
	MN1H	–	–	–	–	–	■	–	–	–	–	–	–	–
Compact Performance	CPE10-M1BH, CPE14-M1BH	–	–	–	–	–	–	–	–	–	–	–	–	■
	CPE18, CPE24	–	–	■	–	–	–	–	–	–	–	–	–	–
Tiger 2000	MFH, JMFH	–	–	–	■	–	–	–	–	–	–	–	–	–
	MVH, JMVH	–	–	–	–	–	–	–	■	–	–	–	–	–
Tiger Classic	MFH, MOFH, JMFH, JMFDH	–	–	–	■	–	–	–	–	–	–	–	–	–
Midi Pneumatic	MEBH, MOEBH, JMEBH	–	–	■	–	–	–	–	–	–	–	–	–	–
	MEH, MOEH, JMEH	–	■	–	–	–	–	–	–	–	–	–	–	–
Directly actuated solenoid valves	MZBH, MOZBH	–	–	–	–	–	–	–	–	–	–	–	■	–
	MEBH, MOEBH	–	–	■	–	–	–	–	–	–	–	–	–	–
	MVH, MOVH	–	–	–	–	–	–	–	■	–	–	–	–	–
	MDH, MODH	■	–	–	–	–	–	–	–	–	–	–	–	–
Miniature valves	MH1	–	–	–	–	–	–	–	–	–	–	–	–	■
Fast-switching valves	MH2, MH3	–	–	–	–	–	–	–	–	–	–	–	–	■
	MH4	–	–	■	–	–	–	–	–	–	–	–	–	–
Smart Cubic	CPASC1	–	–	–	–	–	–	–	–	–	–	–	–	■
VB series	VUVB	–	–	■	–	–	–	–	–	–	–	–	–	–
Micro/Mini Pneumatic	MZH, MOZH, JMZH	–	–	–	–	–	–	–	–	–	–	■	–	–
	MYH, MOYH, JMYH	–	–	–	–	–	–	–	–	■	–	–	–	–
M5 Compact system	MUFH	–	–	–	■	–	–	–	–	–	–	–	–	–
Process directional control valves	VZWM-L	■	–	–	–	■	–	–	–	–	–	–	–	–

Solenoid coils MSF/MSN1

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Type codes

Solenoid coils

Type		MSFG	24DC	OD
MSFG	F solenoid coil, for DC voltage			
MSFW	F solenoid coil, for AC voltage			
MSN1G	N1 solenoid coil, for DC voltage			
MSN1W	N1 solenoid coil, for AC voltage			
Operating voltage				
12DC	12 V DC			
24DC	24 V DC			
24AC/12DC	12 V DC/24 V AC			
24DC/42AC	24 V DC/42 V AC			
42DC	42 V DC			
24AC	24 V AC			
48AC	48 V AC			
110AC	110 V AC			
230AC	230 V AC			
240AC	240 V AC			
Scope of delivery				
OD	Without plug socket			

Solenoid coils, explosion-proof

Type		MSFG	24DC	K5	M	EX
MSFG	F solenoid coil, for DC voltage					
MSFW	F solenoid coil, for AC voltage					
Operating voltage						
24	24 V DC					
24DC	24 V DC					
24AC	24 V AC					
24-50/60	24 V AC, 50/60 Hz					
110AC	110 V AC					
110-50/60	110 V AC, 50/60 Hz					
230AC	230 V AC					
230-50/60	230 V AC, 50/60 Hz					
Cable length						
	1 m					
K5	5 m					
KX	On request					
ATEX specification						
	II 3 GD EEx nA II T1 30°C X					
M	II 2 GD EExm II T5					
Explosion protection						
EX	Explosion-proof to EN 50 028					

Solenoid coils MSF

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Technical data

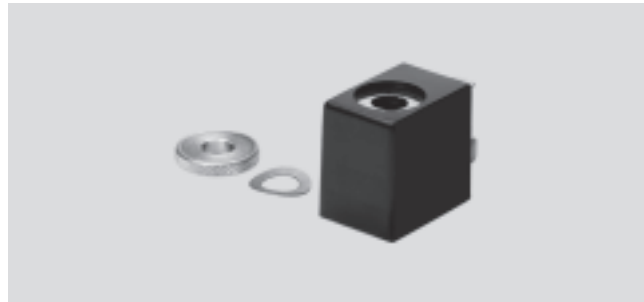
Voltage

12 ... 42 V DC
24 ... 240 V AC

Temperature range

–5 ... +40 °C

- In compliance with VDE regulation 0580, insulation class F
- Can be replaced without interrupting the pneumatic circuit
- Low power consumption and temperature rise



General technical data		
Type of mounting	Via knurled nut	
Mounting position	Any (can be rotated 360° on the armature tube)	
Max. tightening torque of plug socket	[Nm]	0.4
Product weight	[g]	55

Materials	
Solenoid coil	Duroplastic, copper, steel
Note on materials	RoHS-compliant

Electrical data								
Type	MSFG-12	MSFG-42	MSFG-24/42	MSFW-24	MSFW-48	MSFW-110	MSFW-230	MSFW-240
Electrical connection	3-pin							
	Plug vanes with connection pattern to Festo standard for MSSD-F							
Min. starting time	[ms]	10						
Permissible voltage fluctuations	[%]	±10						
Permissible frequency fluctuations	[%]	–		±5				
Duty cycle	[%]	100						
Power factor cosφ		–		0.7				
Switching position display		No						
Protection class to EN 60529		IP65 with plug socket						

Coil characteristics								
Type	MSFG-12	MSFG-42	MSFG-24/42	MSFW-24	MSFW-48	MSFW-110	MSFW-230	MSFW-240
Output	12 V DC, 4.1 W	42 V DC, 5.5 W	24 V DC, 4.5 W	–	–	–	–	–
Switching power	50/60 Hz	–	42 V AC, 9 VA	24 V AC, 9 VA	48 V AC, 9 VA	110 V AC, 9 VA	230 V AC, 9 VA	240 V AC, 9 VA
Holding capacity	50/60 Hz	–	42 V AC, 7 VA	24 V AC, 7 VA	48 V AC, 7 VA	110 V AC, 7 VA	230 V AC, 7 VA	240 V AC, 7 VA

Operating and environmental conditions								
Type	MSFG-12	MSFG-42	MSFG-24/42	MSFW-24	MSFW-48	MSFW-110	MSFW-230	MSFW-240
Ambient temperature	[°C]	–5 ... +40						
CE mark (see declaration of conformity)		–					To EU Low Voltage Directive	

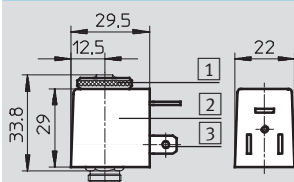
Solenoid coils MSF

Technical data

FESTO

Dimensions

Download CAD Data → www.festo.com/us/cad

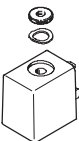
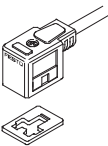


- 1 Retaining nut
- 2 Solenoid coil
(can be rotated 360°
on the armature tube)
- 3 Plug vanes for plug sockets
MSSD-F, KMF

Note

Can only be operated on aluminium valves with valve body dimensions $\geq 26 \times 16 \times 14$ mm

Ordering data

Description		Part No.	Type
Solenoid coil			
	Without plug socket, with disc-spring washer and knurled nut	12 V DC	34410 MSFG-12DC-OD
		24 V DC, 42 V AC	34411 MSFG-24/42-50/60-OD
		42 V DC	34413 MSFG-42DC-OD
		24 V AC	34415 MSFW-24AC-OD
		48 V AC	34418 MSFW-48AC-OD
		110 V AC	34420 MSFW-110AC-OD
		230 V AC	34422 MSFW-230AC-OD
		240 V AC	34424 MSFW-240AC-OD
Plug socket			
	Cable connection via clamping screws	34431	MSSD-F
	Cable connection via insulation displacement technology	192746	MSSD-F-S-M16
Plug socket with cable			
	Operating voltage 24 V DC, switching status display via LED	Cable length 2.5 m	30935 KMF-1-24DC-2,5-LED
		Cable length 5 m	30937 KMF-1-24DC-5-LED
		Cable length 10 m	193458 KMF-1-24DC-10-LED
	Operating voltage up to 240 V	Cable length 2.5 m	30936 KMF-1-230AC-2,5
		Cable length 5 m	30938 KMF-1-230AC-5
Illuminating seal			
	Operating voltage 12 ... 24 V DC	19143	MF-LD-12-24DC
	Operating voltage 230 V DC/V AC	19144	MF-LD-230AC
Inscription label			
	Scope of delivery: 35 pieces in frame	33362	KMC/F/V-BZ-35X

Solenoid coils MSF...-EX

FESTO

Technical data

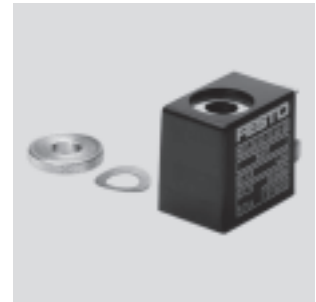
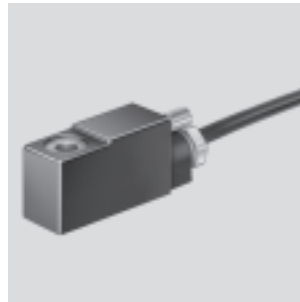
Voltage

24 V DC
24 ... 240 V AC

Temperature range

–5 ... +40 °C

- In compliance with ATEX directive
- In compliance with VDE regulation 0580, insulation class F
- Cable or plug connection
- Can be replaced without interrupting the pneumatic circuit
- Manifold mounting permissible (minimum clearance from coil to coil 5 mm)



General technical data		
Type	MSF...-M	MSF
Min. starting time [ms]	10	
Type of mounting	Via knurled nut	
Mounting position	Any (can be rotated 360° on the armature tube)	
Product weight [g]	170	55

Materials		
Type	MSF...-M	MSF
Solenoid coil	Steel, copper, aluminium, epoxy resin	Steel, copper, duroplastic
Winding	Copper	Copper
Note on materials	RoHS-compliant	RoHS-compliant

Electrical data				
Type	MSFG-...-M-EX	MSFW-...-M-EX	MSFG-24-EX	MSFW-...-50/60-EX
Electrical connection	–		3-pin	
	Cable		Plug vanes with connection pattern to Festo standard for MSSD-F	
Conductor nominal cross section [mm ²]	0.75		–	
Min. starting time [ms]	10			
Permissible voltage fluctuations [%]	±10			
Permissible frequency fluctuations [%]	–	±5	–	±5
Duty cycle [%]	100			
Power factor cosφ	–			0.7
Switching position display	No			
Protection class to EN 60529	IP65 with plug socket			

Coil characteristics – Solenoid coils with connecting cable				
Type	MSFG-24DC-...-M-EX	MSFW-24AC-...-M-EX	MSFW-110AC-...-M-EX	MSFW-230AC-...-M-EX
Nominal operating voltage [V]	24 DC	24 AC	110 AC	230 AC
Output	4.3 W	4.4 VA	4.4 VA	4.2 VA

Coil characteristics – Solenoid coils with plug vanes				
Type	MSFG-24-EX	MSFW-24-50/60-EX	MSFW-110-50/60-EX	MSFW-230-50/60-EX
Nominal operating voltage [V]	24 DC	24 AC	110 AC	230 AC
Output	4.5 W	–	–	–
Pick-up power 50/60 Hz	–	9 VA	9 VA	9 VA
Holding capacity 50/60 Hz	–	7 VA	7 VA	7 VA

Solenoid coils MSF...-EX

FESTO

Technical data

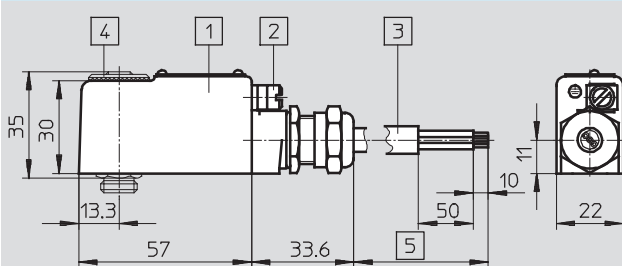
Operating and environmental conditions – Solenoid coils with connecting cable		
Type	MSFG-...-M-EX	MSFW-...-M-EX
Ambient temperature [°C]	–20 ... +40	–20 ... +40
ATEX category gas	II 2G	II 2G
Ex-ignition protection type gas	Ex mb II T5	Ex mb II T5
ATEX category dust	II 2D	II 2D
Ex-ignition protection type dust	Ex tD A21 IP65 T95°C	Ex tD A21 IP65 T95°C
Designated organisation for the quality inspection	0123	0123
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)	To EU Explosion Protection Directive (ATEX)
	–	To EU Low Voltage Directive

Operating and environmental conditions – Solenoid coils with plug vanes		
Type	MSFG-24-EX, MSFW-24-50/60-EX	MSFW-110-50/60-EX, MSFW-230-50/60-EX
Ambient temperature [°C]	–5 ... +40	–5 ... +40
ATEX ambient temperature [°C]	$-5 \leq T_a \leq +40$	$-5 \leq T_a \leq +40$
ATEX specification	II 3 GD EEx nA II T130°C X	II 3 GD EEx nA II T130°C X
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)	To EU Explosion Protection Directive (ATEX)
	–	To EU Low Voltage Directive

Dimensions

Download CAD Data → www.festo.com/us/cad

MSF...-M

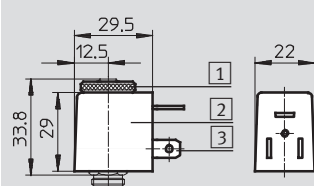


- 1 Solenoid coil
- 2 Protective earth conductor connection
- 3 Heat-resistant rubber tubing, $\varnothing 6.1 \dots 7.9 \text{ mm}$
- 4 Mounting nut (tightening torque 100 ... 150 Ncm)
- 5 Cable length

Note

Can only be operated on aluminium valves with valve body dimensions $\geq 25 \times 25 \times 17 \text{ mm}$

MSF



- 1 Retaining nut (tightening torque 0.4 Nm)
- 2 Solenoid coil
- 3 Plug vanes for plug sockets MSSD-F, KMF

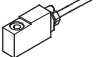
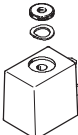
Note

Can only be operated on aluminium valves with valve body dimensions $\geq 26 \times 16 \times 14 \text{ mm}$

Solenoid coils MSF...-EX

Technical data

FESTO

Ordering data					
	Description	Part No.	Type		
Solenoid coil					
	With connecting cable, explosion-proof, moulded-in cable, with disc-spring washer and knurled nut	24 V DC	Cable length 1 m	535619	MSFG-24DC-M-EX
			Cable length 5 m	535621	MSFG-24DC-K5-M-EX
			Cable length on request	538215	MSFG-24DC-KX-M-EX
		24 V AC	Cable length 1 m	535623	MSFW-24AC-M-EX
			Cable length on request	538216	MSFW-24AC-KX-M-EX
		110 V AC	Cable length 1 m	535622	MSFW-110AC-M-EX
			Cable length 5 m	535624	MSFW-110AC-K5-M-EX
			Cable length on request	538218	MSFW-110AC-KX-M-EX
		230 V AC	Cable length 1 m	535620	MSFW-230AC-M-EX
			Cable length 5 m	535625	MSFW-230AC-K5-M-EX
Cable length on request	538217		MSFW-230AC-KX-M-EX		
	With plug vanes, explosion-proof, without plug socket, with disc-spring washer and knurled nut	24 V DC		536931	MSFG-24-EX
		24 V AC		536932	MSFW-24-50/60-EX
		110 V AC		536933	MSFW-110-50/60-EX
		230 V AC		536934	MSFW-230-50/60-EX
Plug socket					
	Cable connection via clamping screws	34431	MSSD-F		

Solenoid coils MSN1

FESTO

Technical data

Voltage

12 V DC
24 V DC
24 ... 230 V AC

Temperature range

–10 ... +50 °C

- In compliance with VDE regulation 0580, insulation class F
- Can be replaced without interrupting the pneumatic circuit
- Connection pattern to EN 175301-803, type A
- Free of copper, PTFE and silicone



General technical data	
Type of mounting	Clamped via retaining clamp
Mounting position	Any (can be rotated 360° on the armature tube)
Product weight [g]	80

Materials	
Housing	PA
Pin contact	Steel
Winding	Copper
Note on materials	Free of copper and PTFE

Electrical data				
Type	MSN1G-24DC-OD	MSN1W-110AC-OD	MSN1W-230AC-OD	MSN1W-24AC/12DC
Electrical connection	Plug vanes, 3-pin, with connection pattern to EN 175301-803, type A			
	–	–	–	Clip
Min. starting time [ms]	10			
Permissible voltage fluctuations [%]	–15 / +10	At 50 Hz: ±10 At 60 Hz: –10 ... +20	±10	At 50 Hz: ±10 At 60 Hz: –10 ... +20
Duty cycle [%]	100			
Power factor cosφ	–	0.7	0.7	0.7
Protection class to EN 60529	IP65 with plug socket			

Coil characteristics				
Type	MSN1G-24DC-OD	MSN1W-110AC-OD	MSN1W-230AC-OD	MSN1W-24AC/12DC
Output	24 V DC, 2.5 W	–	–	12 V DC, 5 W
Switching power 50 Hz	–	110 V AC, 7.5 VA	230 V AC, 7.5 VA	24 V AC, 7.5 VA
60 Hz	–	110 V AC, 5.0 VA	230 V AC, 5.0 VA	24 V AC, 5.0 VA
Holding capacity 50 Hz	–	110 V AC, 5.0 VA	230 V AC, 5.0 VA	24 V AC, 5.0 VA
60 Hz	–	110 V AC, 3.7 VA	230 V AC, 3.7 VA	24 V AC, 3.7 VA

Operating and environmental conditions				
Type	MSN1G-24DC-OD	MSN1W-110AC-OD	MSN1W-230AC-OD	MSN1W-24AC/12DC
Ambient temperature [°C]	–10 ... +50			
Temperature of medium [°C]	–10 ... +50			
CE mark (see declaration of conformity)	–	To EU Low Voltage Directive		–
Certification	cULus recognized (OL)	Germanischer Lloyd	Germanischer Lloyd	–

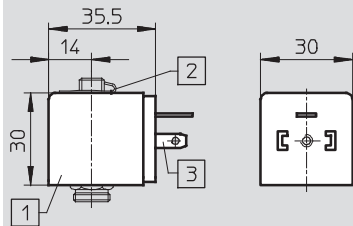
Solenoid coils MSN1

Technical data

FESTO

Dimensions

Download CAD Data → www.festo.com/us/cad



- 1 Solenoid coil
(can be rotated 360°
on the armature tube)
- 2 Safety clip

- 3 Plug vanes with connection
pattern to EN 175301-803,
type A

Ordering data

	Description	Part No.	Type
Solenoid coil			
	Without plug socket, with mounting clip, connection pattern to EN 175301-803, type A	24 V DC	123060 MSN1G-24DC-OD
		12 V DC, 24 V AC	170152 MSN1W-24AC/12DC
		110/120 V AC	123061 MSN1W-110AC-OD
		230 V AC	123062 MSN1W-230AC-OD
Plug socket			
	Cable connection via clamping screws	34583	MSSD-C
	Cable connection via insulation displacement technology	192748	MSSD-C-S-M16
Plug socket with cable			
	Operating voltage 24 V DC, switching status display via LED	Cable length 2.5 m	30931 KMC-1-24DC-2,5-LED
		Cable length 5 m	30933 KMC-1-24DC-5-LED
		Cable length 10 m	193459 KMC-1-24DC-10-LED
	Operating voltage up to 240 V	Cable length 2.5 m	30932 KMC-1-230AC-2,5
		Cable length 5 m	30934 KMC-1-230AC-5
Illuminating seal			
	Operating voltage 12 ... 24 V DC	19145	MC-LD-12-24DC
	Operating voltage 230 V DC/V AC	19146	MC-LD-230AC
Inscription label			
	Scope of delivery: 35 pieces in frame	33362	KMC/F/V-BZ-35X

Solenoid coils MD-2/MH-2

FESTO

Technical data

Voltage

24 V DC
110, 230 V AC

- Can be replaced without interrupting the pneumatic circuit
- Connection pattern to EN 175301-803, type A

Temperature range

–20 ... +50 °C



General technical data		
Type	MD-2	MH-2
Type of mounting	Via knurled nut	Via lock nut
Max. tightening torque of fitting [Nm]	0.5	2
Mounting position	Any	
Product weight [g]	110	150

Materials		
Type	MD-2	MH-2
Solenoid coil	Duroplastic, copper, steel	
Winding	Copper	
Note on materials	–	Contains PWIS (paint-wetting impairment substances)

Electrical data				
Type	MD-2-24VDC	MD-2-...110VAC	MH-2-24VDC	MH-2-...110VAC
Electrical connection	Plug vanes with connection pattern to EN 175301-803, type A			
Min. starting time [ms]	–		12	
Permissible voltage fluctuations [%]	±10			
Permissible frequency fluctuations [%]	–	±10		
Duty cycle [%]	100			
Power factor cosφ	–	0.7		0.7
Switching position display	No			
Protection class to EN 60529	IP65 with plug socket			

Coil characteristics						
Type	MD-2-24VDC	MD-2-110VAC	MD-2-230VAC	MH-2-24VDC	MH-2-110VAC	MH-2-230VAC
Output	24 V DC, 6.8 W	–	–	24 V DC, 7.6 W	110 V AC, 14 VA	230 V AC, 14 VA
Switching power 50/60 Hz	–	110 V AC, 14.5 VA	230 V AC, 14.5 VA	–	–	–
Holding capacity 50/60 Hz	–	110 V AC, 10.5 VA	230 V AC, 10.5 VA	–	–	–

Operating and environmental conditions				
Type	MD-2-24VDC	MD-2-...VAC	MH-2-24VDC	MH-2-...VAC
Ambient temperature [°C]	–20 ... +50			
CE mark (see declaration of conformity)	–	To EU Low Voltage Directive	–	To EU Low Voltage Directive

Solenoid coils MD-2/MH-2

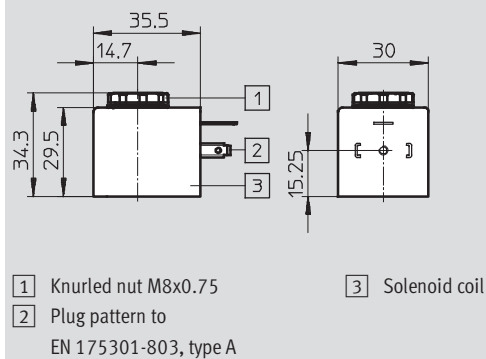
Technical data

FESTO

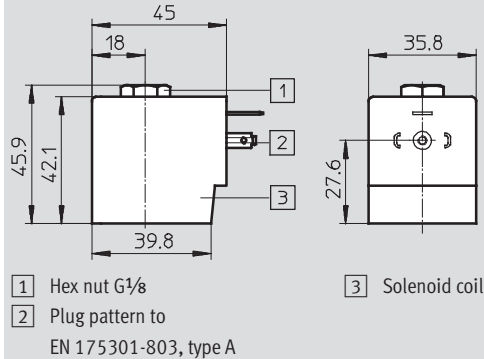
Dimensions

Download CAD Data → www.festo.com/us/cad

MD-2 (system 8)



MH-2 (system 13)



Ordering data

Description		Part No.	Type
Solenoid coil			
	Coils MD, without plug socket, connection pattern to EN 175301-803, type A	24 V DC	549903 MD-2-24VDC-PA
		110 V AC	549904 MD-2-110VAC-PA
		230 V AC	549905 MD-2-230VAC-PA
	Coils MH, without plug socket, connection pattern to EN 175301-803, type A	24 V DC	549906 MH-2-24VDC-PA
		110 V AC	549907 MH-2-110VAC-PA
		230 V AC	549908 MH-2-230VAC-PA
Plug socket			
	3-pin, square design MSF	550067	MSSD-N

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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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