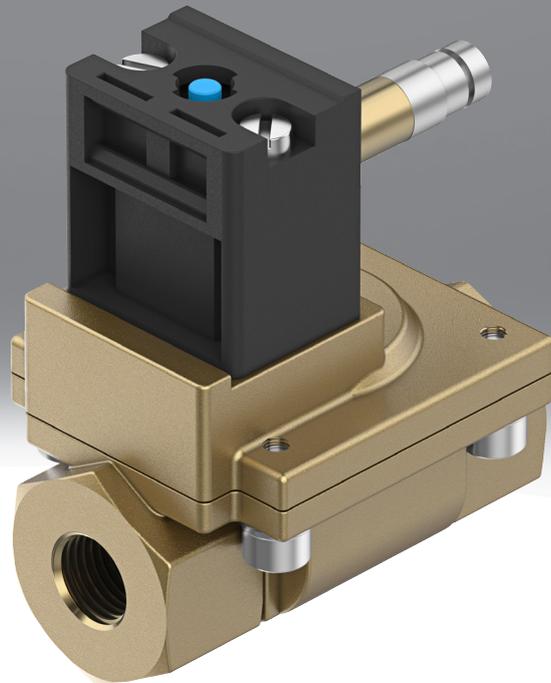


Solenoid valve, inch MN1H

FESTO

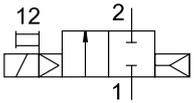


Characteristics

At a glance

- Pilot-operated diaphragm valve
- Brass version
- Can only be used for gaseous media
- Adjustable closing cushioning, in-line mounting or through-hole
- Operating voltage 24 V DC, 110/230 V AC (50 ... 60 Hz)
- When switching on the voltage, the solenoid is energised and the valve is reversed

Function



Type code

001	Series
MN1H	Valve with armature tube for solenoid coil MSN, single solenoid MN1H

002	Valve function
2	2/2-way valve

003	Process valve connection
N14	1/4 NPT
N38	3/8 NPT
N12	1/2 NPT
N34	3/4 NPT
N1	1 NPT
N112	1 1/2 NPT

004	Housing material
MS	Brass

Datasheet

General technical data

Connection Process valve	1/4 NPT	3/8 NPT	1/2 NPT	3/4 NPT	1 NPT	1 1/2 NPT	
Valve function	2/2-way, closed, monostable						
Design	Diaphragm valve						
Sealing principle	Soft						
Type of actuation	Electric	-					
Type of reset	Pneumatic spring						
Type of piloting	Pilot actuated						
Flow direction	Non-reversible						
Exhaust-air function	Without flow control option						
Manual override	Detenting via accessory, Non-detenting						
Type of mounting	In-line installation						
Mounting position	optional						
Nominal size	13 mm		20 mm		25 mm		40 mm
Degree of protection	IP65						
Product weight	450 g		400 g		1,100 g		2,600 g

Operating and environmental conditions

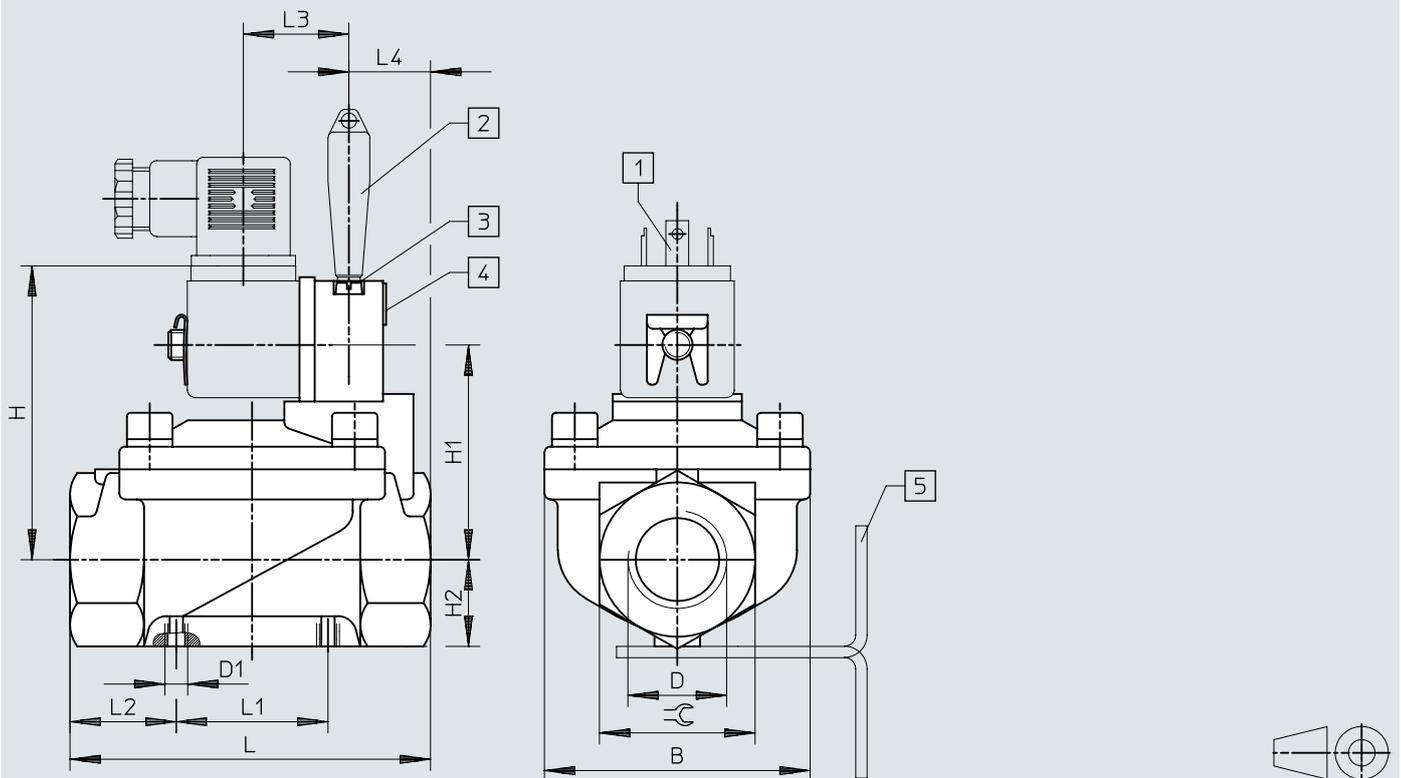
Medium	Filtered compressed air, grade of filtration 200 µm
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Medium pressure	0.5 ... 10 bar
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C

Materials

Material screws	High-alloy stainless steel
Material number screw	1.4301

Dimensions

Dimensions – 2/2-way valve

Download CAD data www.festo.com

- [1] Connection for plug socket according to DIN 43650, type A
 [2] Manual override attachment can be rotated and latched
 [3] Manual override without attachment, non-detenting
 [4] Location for inscription label type IBS-9x20
 [5] Retaining bracket HRM-...

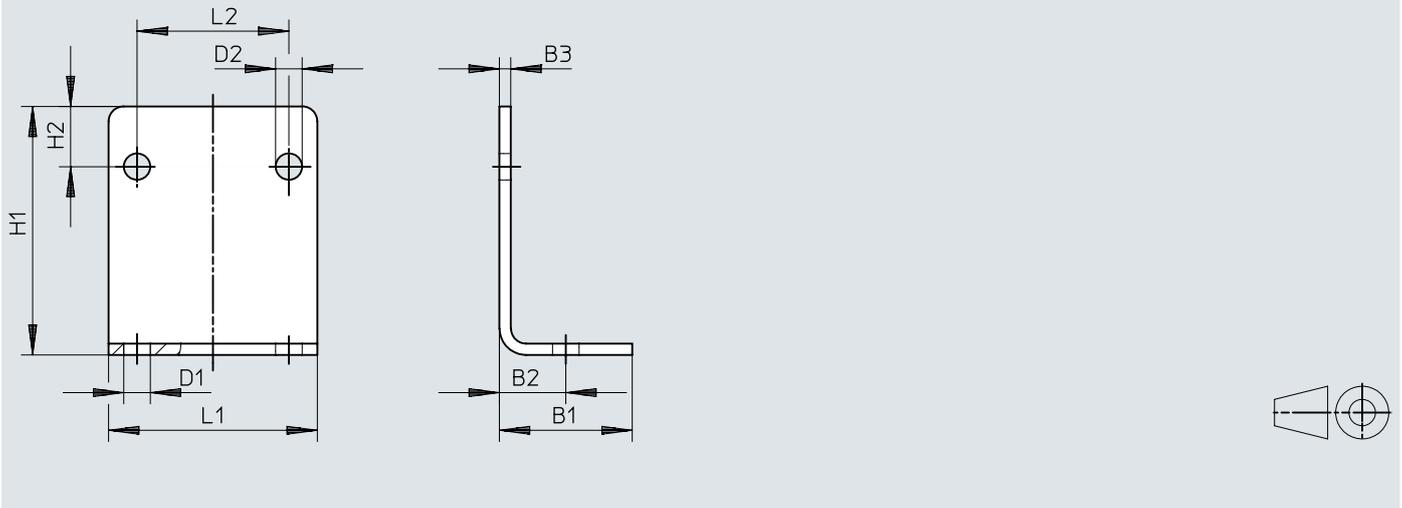
	D	B	D1	H	H1	H2
MN1H-2-1/4-MS-NPT	1/4 NPT	48	M4	67	46	15
MN1H-2-3/8-MS-NPT	3/8 NPT	48	M4	67	46	15
MN1H-2-1/2-MS-NPT	1/2 NPT	48	M4	67	46	15
MN1H-2-3/4-MS-NPT	3/4 NPT	70	M6	78	57	23
MN1H-2-1-MS-NPT	1 NPT	70	M6	78	57	23
MN1H-2-1 1/2-MS-NPT	1 1/2 NPT	96	M6	91,5	70,5	31,5

	L	L1	L2	L3	L4	⌀
MN1H-2-1/4-MS-NPT	67	25	21	26,5	20	27
MN1H-2-3/8-MS-NPT	67	25	21	26,5	20	27
MN1H-2-1/2-MS-NPT	67	25	21	26,5	20	27
MN1H-2-3/4-MS-NPT	95	40	27,5	26,5	21,5	41
MN1H-2-1-MS-NPT	95	40	27,5	26,5	21,5	41
MN1H-2-1 1/2-MS-NPT	140	59,5	38,3	26,5	30	58

Dimensions

Dimensions – Mounting bracket HRM

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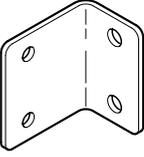


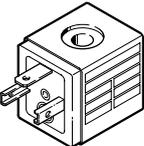
	B1	B2	B3	D1 ∅	D2 ∅	H1	H2	L1	L2 ±0,1
HRM-1	25	12,5	2	6	5	37	10	40	25
HRM-2	35	17,5	3	7	7	66	16	55	40
HRM-3	47	23,5	3	9	7	87	23	75	59,5

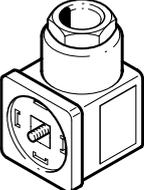
Ordering data

Ordering data			
	Connection Process valve	Part no.	Type
	1/4 NPT	161724	MN1H-2-1/4-MS-NPT
	3/8 NPT	161726	MN1H-2-3/8-MS-NPT
	1/2 NPT	161729	MN1H-2-1/2-MS-NPT
	3/4 NPT	161730	MN1H-2-3/4-MS-NPT
	1 NPT	161733	MN1H-2-1-MS-NPT
	1 1/2 NPT	161735	MN1H-2-1 1/2-MS-NPT

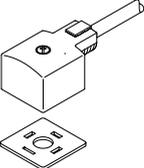
Accessories

Mounting bracket HRM				
	Size	Product weight	Part no.	Type
	Size 1	39 g	9769	HRM-1
	Size 2	130 g	9770	HRM-2
	Size 3	246 g	9771	HRM-3

Solenoid coils				
	Characteristic coil data	Part no.	Type	
	110 V AC: 50 Hz, pick-up power 7.5 VA, holding power 5.0 VA, 110 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA, 120 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA	123061	MSN1W-110AC-OD	
	230 V AC: 50 Hz, pick-up power 7.5 VA, holding power 5.0 VA, 230 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA	123062	MSN1W-230AC-OD	
	24 V DC: 2.5 W	123060	MSN1G-24DC-OD	

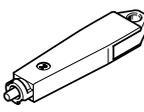
Plug socket without cable				
	Electrical connection	Part no.	Type	
	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design MSC, Square design MSN1	34583	MSSD-C	

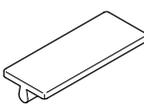
Plug socket without cable with insulation displacement technology				
	Electrical connection	Part no.	Type	
	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design	539709	MSSD-C-M16	

Connecting cables						
	Nominal operating voltage DC	Cable length	Switching status indication	Part no.	Type	
		2.5 m		30932	KMC-1-230AC-2,5	
		5 m		30934	KMC-1-230AC-5	
	24 V	2.5 m	LED	30931	KMC-1-24DC-2,5-LED	
		5 m		30933	KMC-1-24DC-5-LED	
		10 m			193459	KMC-1-24-10-LED

Accessories

Illuminating seal			
	Operational voltage range DC	Part no.	Type
	12 ... 24 V	19145	MC-LD-12-24DC

Manual override			
	Description	Part no.	Type
	for N1 coils	157651	AHB-MD/MF/MV

Inscription labels			
	Description	Part no.	Type
	Scope of delivery: 20 pieces in frames	18182	IBS-9X20