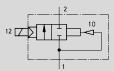


Single Solenoid Valve

Spring Return Brass Housing Type MN1H-...-MS



Accessories:

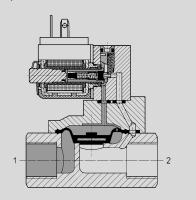
Order Separately

Solenoid coils, see page 731.

Sockets/cables, Types KMC-..., MSSD-C, see pages 734-735.

LED gaskets Types MC-..., MCL-..., see pages 738-739.

Manual override, 157651 AHB-MD/MF/MV Nameplates, 18182 IBS-9 x 20





When the solenoid is energized, the valve shifts and remains shifted until the solenoid is de-energized.

Note: When pressure is first supplied to the valve, the diaphragm will open momentarily.

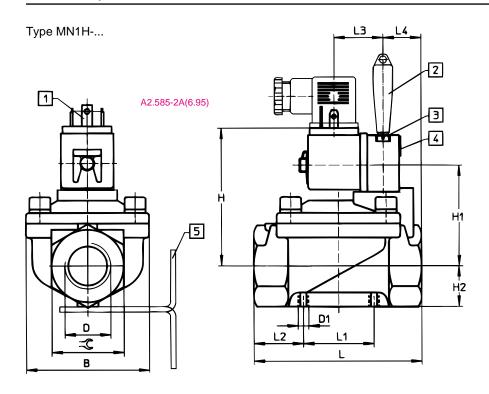
Caution: When using liquids, pressure surges may occur when valve is energized.

Response Time (per VDI 3290)

Туре	Compressed Air ((ms)	Water (ms)			
	On Off		On	Off		
MN1H-2-1/4	30	100	50	220		
MN1H-2-3/8	30	100	50	220		
MN1H-2-1/2	30	100	50	220		
MN1H-2-3/4-B	120	180	75	350		
MN1H-2-1-B	120	180	75	350		
MN1H-2-1-1/2	230-440	300-1000	230-550	1000-14,000		

Order Number Part No./Type	ISO Connection	161725 MN1H-2-1/4-MS	161727 MN1H-2-3/8-MS	161728 MN1H-2-1/2-MS	161731 MN1H-2-3/4-MS	161732 MN1H-2-1-MS	161734 MN1H-2-1-1/2-MS		
21.	NPT Connection	161724 MN1H-2-1/4-MS-NPT	161726 MN1H-2-3/8-MS-NPT	161729 MN1H-2-1/2-MS-NPT	161730 MN1H-2-3/4-MS-NPT	161733 MN1H-2-1-MS-NPT	161735 MN1H-2-1-1/2-MS-NPT		
		+ Voltage supp	oly						
	Bracket	9769 HRM-1			9770 HRM-2		9771 HRM-3		
Medium*		Compressed air (filtered, lubricated or unlubricated) distilled water**, mineral-oil base hydraulic oil up to 0.34 sq in / sec / 22 mm² / sec							
Design		Diaphragm sea	at valve						
Mounting		In line, mountir	ng bracket or thro	ugh holes in housi	ng				
Connection		1/4 NPT / G 1/4	3/8 NPT / G 3/8	1/2 NPT / G 1/2	3/4 NPT / G 3/4	1 NPT / G 1	1-1/2 NPT / G 1-1/2		
Orifice Size		0.52 in / 13 mm	0.52 in / 13 mm	0.52 in / 13 mm	0.79 in / 20 mm	0.98 in / 25 mm	1.58 in / 40 mm		
C _V Factor (1 → 2)	C _V / I/min	2.0 C _V / 2000 l/min	2.9 C _V / 2900 l/min	3.1 C _V / 3100 l/min	10 C _V / 10,000 l/min	11.5 C _V / 11,500 l/min	30.5 C _V / 30,500 l/min		
Flow Rate For Water (kv)	ft ³ /h / m ³ /h	64.19 / 1,818	93.08 / 2,636	99.51 / 2,818	321.01 / 9,091	369.17 / 10,455	979.06 / 27,727		
Pressure Range		7.5 to 150 psi / 0.5 to 10 bar							
Min. Differential Pressure to Open		12 psi / 0.8 bar							
Response Time at 90 psi / 6 bar	See table above								
Ambient Temperature	14 to 95°F / -10 to +35°C (for water: 14 to 140°F / -10 to 60°C)								
Medium Temperature	14 to 176°F / -10 to +80°C (for water: 14 to 140°F / -10 to 60°C)								
Materials	Housing: Brass; Diaphragm: Buna N								
Weight		0.99 lb / 0.45 kg	0.99 lb / 0.45 kg	0.88 lb / 0.40 kg	2.43 lb / 1.10 kg	2.20 lb / 1.0 kg	5.73 lb / 2.60 kg		
Standard Voltage	DC	24V							
	AC	110V / 50 to 60 Hz, 230V / 50 to 60 Hz							
Power Consumption	Holding / Inrush	2.5W		3.7 / 5VA		3.7 / 5 VA			
Duty Cycle		100%							
Type of Protection (DIN 40050)		IP 65 with socket							

^{*} Other media on request. **PH value approx. 7-9.



Max. tightening torque:

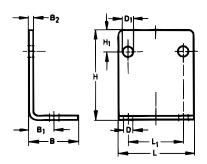
1/4" NPT / G 1/4 ISO....25.82 lb-ft / 35 N·m 3/8" NPT / G 3/8 ISO....44.26 lb-ft / 60 N·m 1/2" NPT / G 1/2 ISO....77.45 lb-ft / 105 N·m 3/4" NPT / G 3/4 ISO....147.51 lb-ft / 200 N·m 1" NPT / G 1 ISO....280.27 lb-ft / 380 N·m 1-1/2" NPT / G 1-1/2 ISO....626.96 lb-ft / 850 N·m

1 (P) = Supply2 (A) = Outlet

- 1 Connection for socket per DIN 43650 Form A
- 2 Manual override actuator, detented
- 3 Manual override without actuator, not detented
- 4 Location of nameplate, Type IBS-9 x 20
- 5 Bracket, Type HRM-...

Туре	В	D	D ₁	Н	H ₁	H ₂	L	L ₁	L ₂	L ₃	L ₄	_
	in / mm			in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	mm
MN1H-2-1/4	1.89 / 48	1/4" NPT / G 1/4	M4	2.64 / 67	1.81 / 46	0.59 / 15	2.64 / 67	0.98 / 25	0.83 / 21	1.04 / 26.5	0.79 / 20	27
MN1H-2-3/8	1.89 / 48	3/8" NPT / G 3/8	M4	2.64 / 67	1.81 / 46	0.59 / 15	2.64 / 67	0.98 / 25	0.83 / 21	1.04 / 26.5	0.79 / 20	27
MN1H-2-1/2	1.89 / 48	1/2" NPT / G 1/2	M4	2.64 / 67	1.81 / 46	0.59 / 15	2.64 / 67	0.98 / 25	0.83 / 21	1.04 / 26.5	0.79 / 20	27
MN1H-2-3/4	2.76 / 70	3/4" NPT / G 3/4	M6	3.07 / 78	2.24 / 57	0.91 / 23	3.74 / 95	1.57 / 40	1.08 / 27.5	1.04 / 26.5	0.85 / 21.5	41
MN1H-2-1	2.76 / 70	1" NPT / G 1	M6	3.07 / 78	2.24 / 57	0.91 / 23	3.74 / 95	1.57 / 40	1.08 / 27.5	1.04 / 26.5	0.85 / 21.5	41
MN1H-2-1-1/2	3.78 / 96	1-1/2" NPT / G 1-1/2	M6	3.60 / 91.5	2.78 / 70.5	1.24 / 31.5	5.51 / 140	2.34 / 59.5	1.51 / 38.3	1.04 / 26.5	1.18 / 30	58

Type HRM-...



Bracket											
Туре	В	B B1 B2		D	D D1		H1	L	L1		
				Ø	Ø						
	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm		
HRM-1	0.98 / 25	0.49 / 12.5	0.08 / 2	0.24 / 6	0.20 / 5	1.46 / 37	0.39 / 10	1.57 / 40	0.98 / 25		
HRM-2	1.38 / 35	0.69 / 17.5	0.12/3	0.28 / 7	0.28 / 7	2.60 / 66	0.63 / 16	2.16 / 55	1.57 / 40		
HRM-3	1.85 / 47	0.93 / 23.5	0.12/3	0.35 / 9	0.28 / 7	3.43 / 87	0.91 / 23	2.95 / 75	2.34 / 59.5		

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