



^{2.5} Solenoid valve / pneumatic valve HMFH-5 series

Special cut-off structure, small shape size, large output flow, no oil lubrication, suitable for relatively harsh work and environment has good reliability.



Summary

Special cut-off structure, small shape size, large output flow, no oil lubrication, suitable for relatively harsh work and environment has good reliability.

Product features

• Electric control or air control valve; • Internal pilot or external pilot supply air source ; • Strong structure and reliable performance.

Diagram

Туре	Single solenoid valve,Spring reset	Single solenoid valve,Spring reset,With pilot stomata	Double solenoid valve,With pilot stomata	Pneumatic valve, Spring reset		
Sign						

Product range overview

			Pneumatic	Operatin	g voltage	Pilot air su	pply source	Reset method					
Function	Туре	Code	connection	[V DC]	[V AC]	Internal pilot	External Pilot	Pneumatic	Spring				
	Single solenoid	Single solenoid valve											
	and and	HMFH	G1/8	24	110, 220			-					
	ST ALL STRUCT	пмгп	G1/4	24	110, 220			-	-				
	Double solenoid valve												
5/2-way Solenoid valve	and the second s	HJMFH	G1/8	- 24	110, 220			-	-				
valve			G1/4					-	-				
	Air control valve												
	S S S S S S S S S S S S S S S S S S S	HVL	G1/8	-	-	-	-	-					
	A SER		G1/4	-	-	-	-	-					

Solenoid valve[HMFH\HJMFH series]

•Type codes

Valve	HMFH-5	-1/8		-3		G		-A		
valve	1		2		3		4	5		
1	HMFH-5: Single solenoid valve; HJMFH-5: Double solenoid valve;									
2	- Pneumatic connection:	1/8	G1/8	1/4	G1/4					
3	- Voltage:	3 AC110V		4	AC220V	5	DC24V			
(4)	Electrical connection	G	Direct line	D	DIN socket-type	DZ	DIN socket-type,With an indicator lamp and an over-voltage inhibitor			
5	- Pilot air supply source	А	With external pilot port		Internal					

- Solenoid valve[HMFH\HJMFH series]

-•Type codes

	PRS	-1/
Valve groups	1	(2
1	PRS: Manifold block	
2	- Pneumatic connection: 1/8=HI	MFH-5-1/8 Valve
3	- Number of valve groups: 02=2	2; 03=310=10
(4)	- Voltage: 4=AC220V; 5=DC24V	/

•Technical parameters-5/2-way single solenoid

General technical data	
Pneumatic connection	G1/8
Reset method	Mechanical spring
Valve function	5/2-way, Single solenoi
Design	Poppet seat
Sealing principle	Soft
Actuation type	Electrical
Type of control	Piloted
Pilot air supply	Internal or external
Flow direction	Non-reversible
Exhaust function	Can be throttled
Manual override	Detenting
Type of mounting	Via through-hole
Mounting position	Any
Nominal width [mm]	5
Standard nominal flow rate [l/min]	750
Valve size [mm]	27

Operating and environmental conditions									
Pneumatic connection		G1/8		G1/4					
Reset method		Pneumatic	Mechanical spring	Pneumatic	Mechanical spring				
Operating medium		Compressed air to ISO 85	Compressed air to ISO 8573-1:2010 [7:4:4], Lubricated or Unlubricated						
Operating processo	Internal pilot air supply [bar]	3…10	2…10	3…10	2…10				
Operating pressure	External pilot air supply [bar]	-0.9+10	0…10	-0.9 …+10	0…10				
Pilot pressure	[bar]	3…10	2…10	3…10	1.5 … 10				
Ambient temperature [° C]		- 10+60							
Temperature of medium	[° C]	- 10+60							

1/8	-02	-4								
2	3	4								
/e groups;1/4=H	e groups;1/4=HMFH-5-1/4 Valve groups									

		G1/4			
	Pneumatic	Mechanical spring	Pneumatic		
id	valve				
	Poppet seat	Poppet seat	Poppet seat		
	Reversible	Non-reversible	Reversible		
	8	7	10		
	1000	1300	1600		
		33			

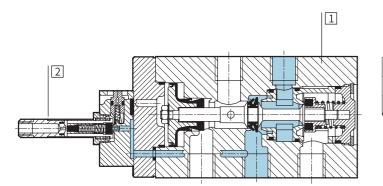
- Solenoid valve[HMFH\HJMFH series]

-•Technical parameters-5/2-way single solenoid

Valve switching times [ms]										
Pneumatic connection	G1/8 G1/4		Pneumatic connection	G1/8						
Reset method	Pneumatic	Mechanical spring	Pneumatic	Mechanical spring						
On	10	10	25	12						
Off	30	30	44	36						

Electrical data								
Solenoid coil	enoid coil							
Electrical conne	ection		Plug pins for plug sockets MSSD- F, KMF					
Operating voltage	Direct voltage	[V DC]	24					
	Alternating voltage	[V AC]	110, 220 (50 …60 Hz)					
Characteristic	Direct voltage	[W]	5					
coil data	Alternating voltage	[VA]	Switch: 7.5 Hold: 6					
Degree of prote	ction to EN 60529		IP65 (in combination with plug socket)					

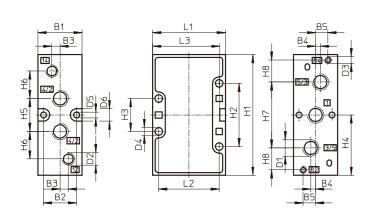
• Structure diagram

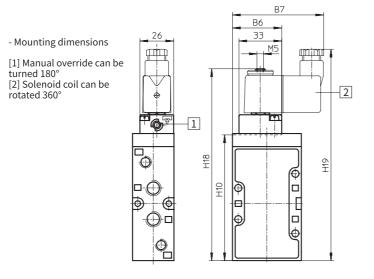


1	Housing	Die-cast aluminium
2	Pilot module	
-	Seals	BNR、 PU

• Dimensions-pneumatic G1/8, G1/4 (Mechanical spring)

- Basic valve





- Solenoid valve[HMFH\HJMFH series]

-• Dimensions-pneumatic G1/8, G1/4 (Mechanical spring)

Pneumatic connection	B1	B2	B3	B4	B5	B6	B7	D1	D2	D3	D4 Ø	D5 Ø	D6	H1
G1/8	26	19.5	5	3.5	8	36.8	67	G1/8	G1/8	M5	4.5	4.3	9	77
G1/4	32	24	6	3.5	9	38	70	G1/4	G1/8	M5	5.5	4.3	9	88

Pneumatic connection	H2	H3	H4	H5	H6	H7	H8	H10	H18	H19	L1	L2	L3
G1/8	41	21	38.5	22	19	42	12	86.5	136	152	47	40	43
G1/4	46	24	44	24	20	48	16	97.5	147	163	53	44	49

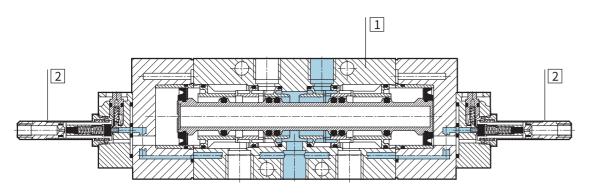
•Technical parameters-5/2-way Double solenoid

General technical data			Operating and	environmental cond	itions		
Pneumatic connection	G1/8	G1/4	Pneumatic cor	Pneumatic connection		G1/4	
Valve function	5/2-way Double soler	noid	Operating med	lium	Compresse	ed air to ISO 8573-1:2010 bricated or unlubricated	
Design	Poppet seat			Internal pilot air		bricated of antabricated	
Sealing principle	Soft	t		supply [bar]	210		
Actuation type	Electrical		pressure	External pilot air supply [bar]	-0.9+10		
Type of control	Piloted		Pilot pressure	[bar]	2…10		
Pilot air supply	Internal or external	Internal or external		[° C]	- 10+60		
Flow direction	Not reversible		temperature	[C]	- 10 - 10		
Exhaust function	Can be throttled		Temperature of medium	[° C]	- 10+60		
Manual override	Detenting						
Type of mounting	Via through-hole						
Mounting position	Any						
Nominal width [mm]	8	10	Valve switching	g times [ms]			
Standard nominal flow rate [l/min]	1000	1600	Pneumatic connection	G1/8		G1/4	
Valve size [mm]	27	33	Switching	12		14	

Electrical data			
Solenoid coil			
Electrical connection			Plug pins for plug sockets MSSD- F, KMF
Operating voltage	Direct voltage	[V DC]	24
	Alternating voltage	[V AC]	110, 220 (50 …60 Hz)
Characteristic soil	Divertueltere	[W]	5
Characteristic coil data	Direct voltage Alternating voltage	[VA]	Switch: 7.5 Hold: 6
Degree of protection to	o EN 60529		IP65 (in combination with plug socket)

- Solenoid valve[HMFH\HJMFH series]

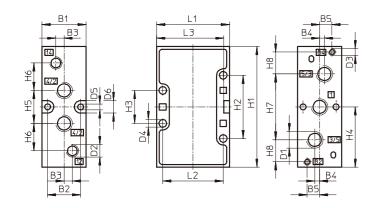
• Structure diagram

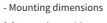


1	Housing	Die-cast aluminium
2	Pilot module	
-	Seals	NBR

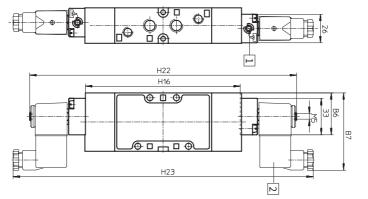
• Dimensions-pneumatic connection G1/8, G1/4

- Basic valve





[1] Manual override can be turned 180° [2] Solenoid coil can be rotated 360°



Pneumatic connection	B1	B2	B3	B4	B5	B6	B7	D1	D2	D3	D4 Ø	D5 Ø	D6	H1	H2
G1/8	26	19.5	5	3.5	8	36.8	67	G1/8	G1/8	M5	4.5	4.3	9	77	41
G1/4	32	24	6	3.5	9	38	70	G1/4	G1/8	M5	5.5	4.3	9	88	46

Pneumatic connection	H3	H4	H5	H6	H7	H8	H16	H22	H23	L1	L2	L3
G1/8	21	38.5	22	19	42	12	129	227	260	47	40	43
G1/4	24	44	24	20	48	16	141.5	240	273	53	44	49

Air control valve [HVL series]

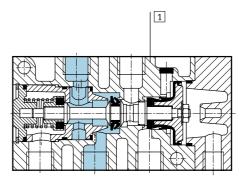
•Type of code

Air control valve	HVL-5	-1/8
All control valve	0	2
1	HVL-5: Air control valve(Single air control, 5/2 way valve)	
2	-Pneumatic connection: 1/8=G1/8; 1/4=G1/4	

·Technical parameters-Air control valve

General technical parameter	S	
Pneumatic connection	G1/8	G1/4
Valve function	5/2-way, bistable	
Design	Poppet seat	
Sealing principle	Soft	
Actuation type	Pneumatic	
Reset method	Mechanical spring	
Type of control	Direct	
Flow direction	Not reversible	
Exhaust function	Can be throttled	
Manual override	None	
Type of mounting	Via through-hole	
Mounting position	Any	
Nominal width [mm]	5	7
Standard nominal flow rate [l/min]	750	1300
Valve size[mm]	27	33

• Structure diagram



Operating and environmental conditions					
Pneumatic connection	G1/8	G1/4			
Operating medium	Compressed air to [7:4:4],Lubricated vacuum	ISO 8573-1:2010 I or unlubricated			
Operating pressure [bar]	0…10	0…10			
Pilot pressure [bar]	1.5 …10	1.5 …10			
Ambient temperature [° C]	- 10+60				
Temperature of medium [° C]	- 10 ···+60				

Valve switching time	s [ms]	
Pneumatic connection	G1/8	G1/4
On	2	2
Off	10	12

1	Housing	Die-cast aluminium
-	Seals	NBR

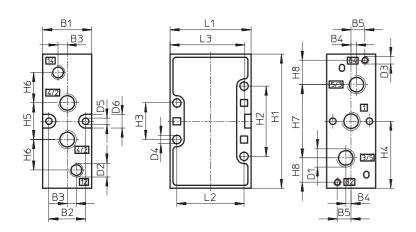
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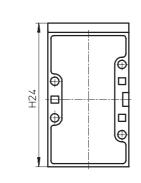
Accessories

- Air control valve [HVL series]

• Dimensions-pneumatic connection G1/8, G1/4

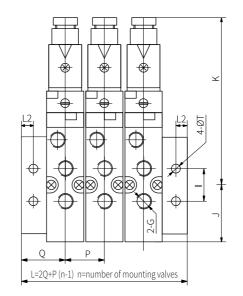
- Basic valve





·Manifold rail PRS (Materials: Anodized aluminium)

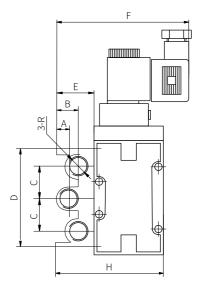
Dimension



Cod	de	А	В	С	D	E	F	G	Н	I	J	К	Р	Q	L2	Т	R
PRS	5-1/8	9	14.5	22	65	25	92	1/8	72	22	38.5	112	27	29	8	5.5	1/4
PRS	5-1/4	12	17	27	75	30	100	1/4	83	27	44	118	33	32	8	5.5	3/8

Pneumatic connection	B1	B2	B3	B4	B5	D1	D2	D3	D4 Ø	D5 Ø	D6	H1
G1/8	26	19.5	5	3.5	8	G1/8	G1/8	M5	4.5	4.3	9	77
G1/4	32	24	6	3.5	9	G1/4	G1/8	M5	5.5	4.3	9	88

Pneumatic connection	H2	НЗ	H4	H5	H6	H7	H8	H24	L1	L2	L3
G1/8	41	21	38.5	22	19	42	12	86.5	47	40	43
G1/4	46	24	44	24	20	48	16	97.5	53	44	49



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