

Classic Tiger Series Power Valves

5/2 - 5 Ported 4 Way, 2 Position Valves, Piloted, G 1/4 or 1/4" NPT

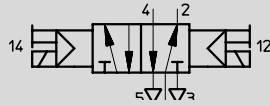
FESTO

Double Solenoid Valve

With Manual Override and Socket

Type JMFH-5-1/4

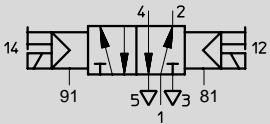
JMFH-5-1/4-NPT



With External Pilot Supply

Type JMFH-5-1/4-S

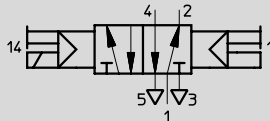
JMFH-5-1/4-S-NPT



Dominating Double Solenoid Valve

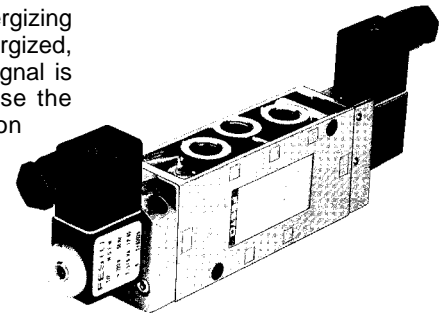
With Manual Override

Type JMFDH-5-1/4



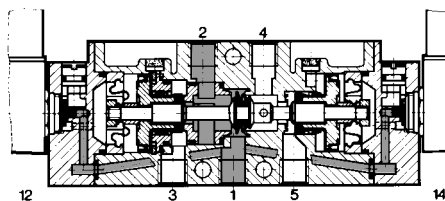
The valve is shifted by alternately energizing the solenoids. When a solenoid is energized, the valve shifts. Only a momentary signal is required (see response time) because the valve will maintain its shifted position until the other solenoid is energized.

If both solenoids are energized, (JMFDH) solenoid 14 will dominate and the valve will shift to the flow position 1 → 4, 2 → 3.



Valve shown with solenoid and socket accessories.

Example: Type JMFH-5-1/4



- 1 (P) = Supply
- 4, 2 (A, B) = Outlet
- 5, 3 (R, S) = Exhaust
- 81, 91 (Pz) = Auxiliary Pilot Air

For manifold mounting,
Type PAL-..., see page 451.
Type PRS-..., see page 452.

Accessories:

(Order Separately)

Solenoid F-coils

with socket, see page 455

without socket, see page 456

Standard Sockets, Type MSSD-F

see page 459

Sockets with cable, Type KMF-...

see page 460

LED Gaskets, Type MF-LD-...

see pages 462-463

Indicator Inserts, Type MFL-...

see page 464

Solenoid Inserts, Type MFZ-...

see page 465

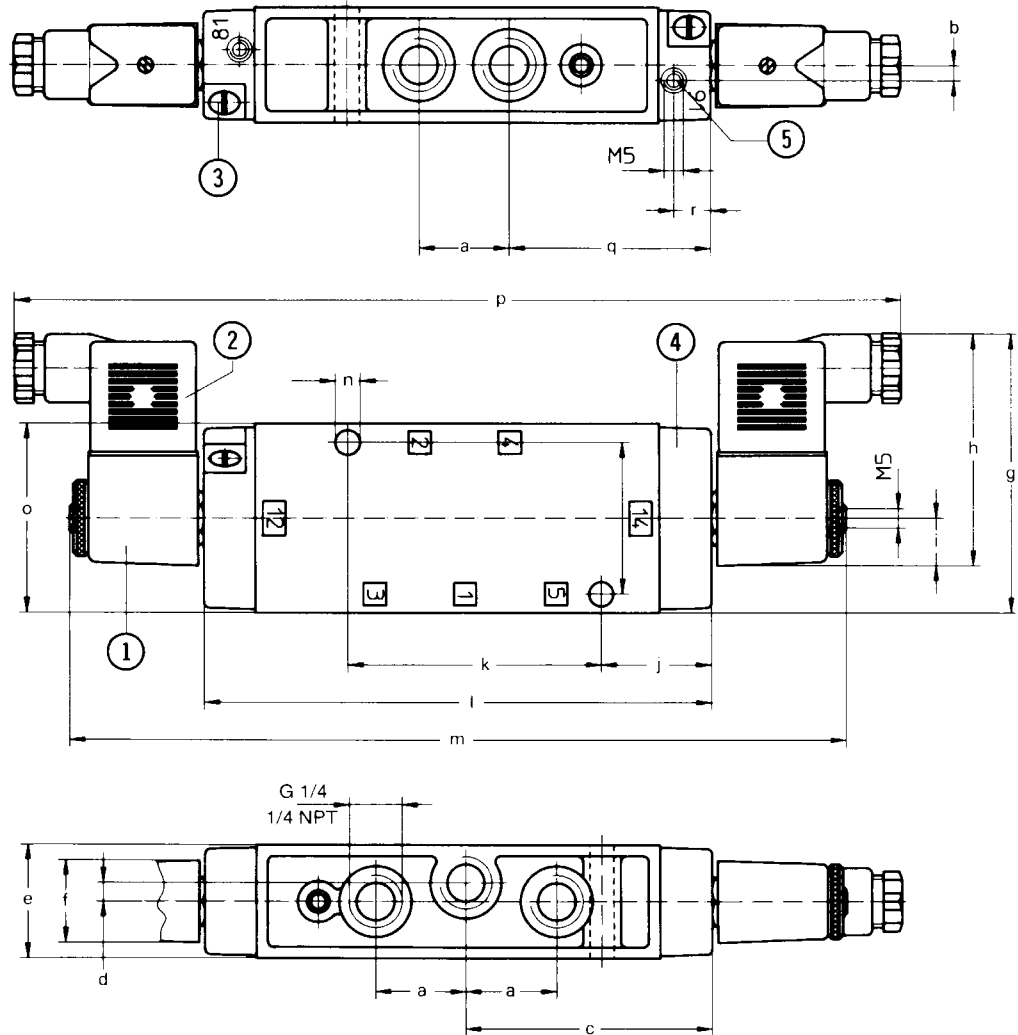
Order Number Part No./Type	10410 JMFH-5-1/4	14009 JMFH-5-1/4-S	10411 JMFDH-5-1/4
	10876 JMFH-5-1/4-NPT	15614 JMFH-5-1/4-S-NPT	—
Medium	Compressed air, filtered (lubricated or unlubricated)		
Design	Poppet valve, piloted		
Mounting	Through-holes in housing		
Connection	G 1/4 ISO / 1/4 NPT		G 1/4 ISO; 81, 91: M5
Orifice Size	0.28 in / 7 mm		
C _v Factor (P → A)	1.100 C _v / 1100 l/min		
Operating Pressure Range	22.5 to 120 psi / 1.5 to 8 bar	0 to 120 psi / 0 to 8 bar	37.5 to 120 psi / 2.5 to 8 bar
Pilot Pressure Range	—	18 to 120 psi / 1.2 to 8 bar	—
Response Time at 90 psi / 6 bar	11 ms		11 ms, dominating function 32 ms
Medium Temperature*	14 to 140°F / -10 to +60°C		
Materials	Housing: Diecast aluminum, anodized; Seals: Buna N		
Weight	1.69 lb / 0.530 kg		
Direct Current	Standard Voltage	12, 24V	} For solenoid coils, see pages 455-456.
Alternating Current	Available Voltage	12 to 230V	
	Standard Voltage	24, 42, 110, 230V / 50 to 60 Hz	
Available Voltage	12 to 240V / 50 or 60 Hz		
Power Consumption	DC: 4.5 W; AC: Holding 6 VA, In rush 7.5 VA		
ED Switching Time	100%		
Type of Protection	IP 65 (DIN 40050)		

*23 to 104°F / -5 to +40°C ambient temperature range

Classic Tiger Series Power Valves

Dimensions

Type JMFH-5-1/4,
 JMFH-5-1/4-NPT
 JMFH-5-1/4-S,
 JMFH-5-1/4-S-NPT
 JMFDH-5-1/4



- ① Solenoid coil can be rotated
- ② Plug can be turned 180°
- ③ Manual override
- ④ Cover can be rotated 180°
- ⑤ Additional auxiliary control air connection with Type JMFH-5-1/4-S

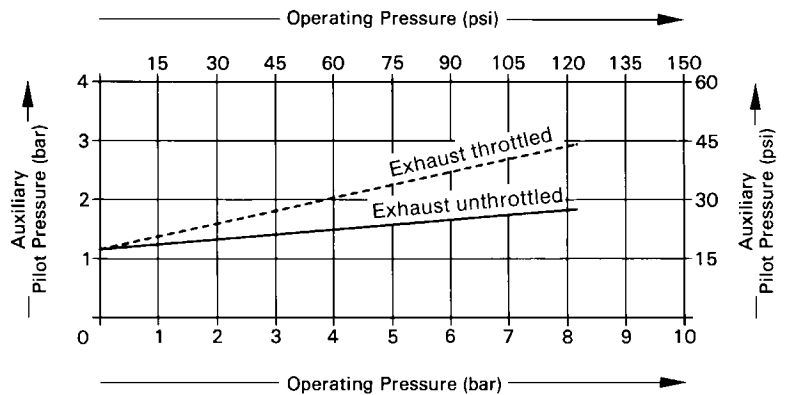
Permissible torque for solenoid mounting nuts =
 13 lb in / 150 Ncm

- 1 (P) = Supply
- 4, 2 (A, B) = Outlet
- 5, 3 (R, S) = Exhaust
- 81, 91 (Pz) = Auxiliary Pilot Air

Dimensions

a	0.94 in / 24 mm	j	1.14 in / 29 mm
b	0.16 in / 4 mm	k	2.64 in / 67 mm
c	2.56 in / 65 mm	l	5.28 in / 134 mm
d	0.20 in / 5 mm	m	8.07 in / 205 mm
e	1.20 in / 30.4 mm	n	0.26 in / 6.5 mm
f	0.87 in / 22 mm	o	1.97 in / 50 mm
g	2.89 in / 73.5 mm	p	9.21 in / 234 mm
h	2.40 in / 61 mm	q	2.09 in / 53 mm
i	0.49 in / 12.5 mm	r	0.37 in / 9.5 mm

Minimum pilot pressure as a function of operating pressure, with Type JMFH-5-1/4-S, JMFH-5-1/4-S NPT



Wear Parts Kit

For Type	JMFH-5-1/4, JMFH-5-1/4-S
Part Number	104892

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Subject to change