Classic Tiger Series Power Valves 3/2 - 3 Way, 2 Position Valves, G 1/8 and 1/8" NPT





Single Pilot Valve

Depending on the connections, the valve functions either as "normally closed" (1 blocked, 2 exhausted to 3) or "normally open" (11 connected to 2, 33 blocked).

This valve is actuated only while pilot pressure is applied at port 110 or 12.

Manifolds: Type PAL-..., see page 451. Type PRS-..., see page 452.





Dimensions

а	0.49 in / 12.5 mm	g	1.38 in / 35 mm
b	0.75 in / 19 mm	h	1.77 in / 45 mm
С	0.31 in / 8 mm	i	2.56 in / 65 mm
d	0.28 in / 7 mm	j	0.87 in / 22 mm
е	0.37 in / 9.5 mm	k	1.02 in / 26 mm
f	0.22 in / 5.5 mm	1	0.12 in / 3 mm

Example: "Normally Closed" Configuration



The cover with port Z can be rotated 180°

(P) = Supply 1, 11 (A) = Outlet 2

3, 33 (R) = Exhaust

110, 12 (Z) = Pilot

Minimum Pilot Pressure versus Supply Pressure



1 Pressure On

Pressure Off 2

3 Only with "Normally Closed" Function

Order Number	Part No./Type	7803 VL/O-3-1/8-B	10840 VL/O-3-1/8-B-NPT	
Medium		Compressed air (filtered, lubricated or unlubricated)†		
Design		Poppet valve with spring return		
Mounting		2 through holes in housing		
Connection	Working Ports	G 1/8 ISO	1/8 NPT	
	Pilot Port	G 1/8 ISO	1/8 NPT	
Orifice Size		0.20 in / 5 mm		
C_V Factor (P \rightarrow A)		0.5 C _V / 500 l/min		
Supply Pressure Range*		28.4 in Hg to 150 psi / -0.95 to 10 bar ("normally closed"), 0 to 150 psi / 0 to 10 bar ("normally open")		
Pilot Pressure Range		See graph (max. 150 psi / 10 bar)		
Response Time at 90 psi / 6 bar		On: 4 ms, Off: 10 ms		
Materials		Housing: Die cast aluminum, anodized; Seals: Buna N		
Weight		0.331 lb / 0.150 kg		

*14 to +140°F / -10 to +60°C

†In "Normally Closed" design, suitable for vacuum operation (Vacuum connected to P1).

3/2 - 3 Way, 2 Position Valves, G 1/4 and 1/4" NPT



*14 to +140°F / -10 to +60°C

†In "Normally Closed" design, suitable for vacuum operation (Vacuum connected to P1).

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1 Festo Inc.

5300 Explorer Drive Mississauga, ON L4W 5G4 Canada

Festo Customer Interaction Center Tel: 18774633786 Fax: 18773933786 Email: customer.service.ca@festo.com ventas.mexico@festo.com



2 Festo Pneumatic

Av. Ceylán 3, Col. Tequesquináhuac 54020 Tlalnepantla, Estado de México

Multinational Contact Center 01 800 337 8669



3 Festo Corporation 1377 Motor Parkway Suite 310 Islandia, NY 11749



4 **Regional Service Center** 7777 Columbia Road Mason, OH 45040

Festo Customer Interaction Center 1 800 993 3786 1 800 963 3786 customer.service.us@festo.com

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