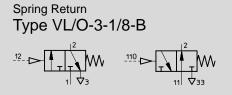
# Classic Tiger Series Power Valves 3/2 - 3 Way, 2 Position Valves, G 1/8 and 1/8" NPT



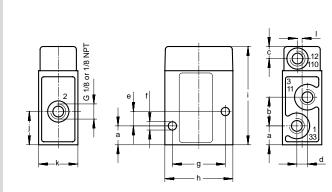


Single Pilot Valve

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.

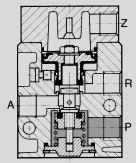




# Dimensions

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



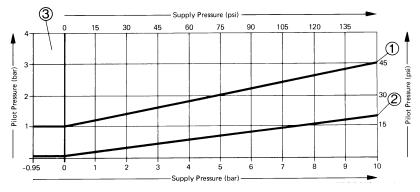
The cover with port Z can be rotated 180°

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

3, 33 (R) = Exhaust

110, 12 (Z) = Pilot

Minimum Pilot Pressure versus Supply Pressure



1 Pressure On

Pressure Off 2

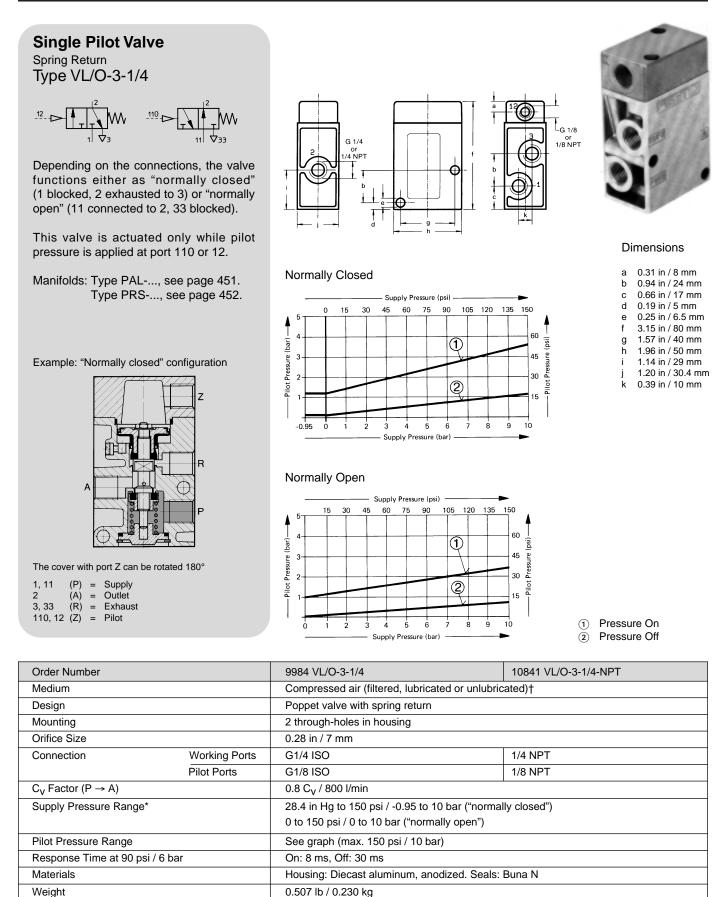
3 Only with "Normally Closed" Function

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 <sub>V</sub> / 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).

# **Product Range and Company Overview**

# **A Complete Suite of Automation Services**

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



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**Pneumatics** Pneumatic linear and rotary actuators, valves, and air supply



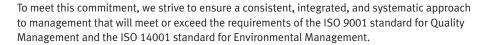
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Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.





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