

Diaphragm-Poppet Toggle Valves

125V, 250V, 501V

Humphrey[®]

CANNOT STICK. WILL NOT LEAK.

Humphrey Diaphragm-Poppet Toggle Valves are perfect on the factory floor as main supply valves, just ahead of your pneumatically powered work stations.

CANNOT STICK. These 3-port valves feature a rigid, cam detent in both positions, large flow capacity and quick exhaust of downstream air. High flow, no sliding seals.

WILL NOT LEAK. The internal design ensures bubble tight sealing, dramatically reducing plant operating costs otherwise resulting from system leakage when work stations are idle.

FEATURES

- Reduces total air consumption in the factory.
- Simple, rugged, economical design.
- Bubble Tight (no leak) regardless of media conditions.
- Secure, rigid detent in both positions.
- High Flow, with quick exhaust.
- Mounting: Line Mount, Base Mount, Panel Mount
- Toggle can be rotated 360°.
- Three sizes: 1/8 NPSF, 1/4 NPSF, and 1/2 NPT



BASE MOUNT



LINE MOUNT



PANEL MOUNT

Scan for additional product details on our online catalog.

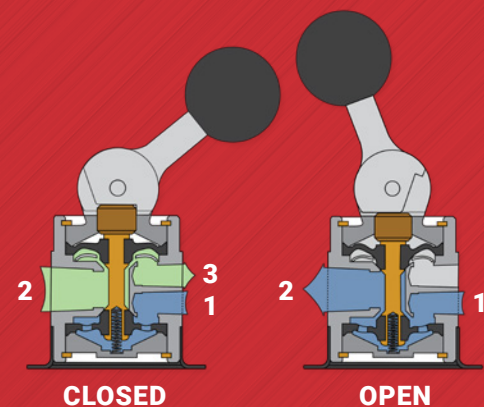


How They Work

Supply air assisted. In closed position, force generated from supply air to PORT 1 seals bottom poppet tight to valve seat. Out PORT 2 has unrestricted, high flow to exhaust PORT 3.

Once actuated to open position, top poppet seals away exhaust port, tight to its valve seat. Supply PORT 1 opens unrestricted, high flow to PORT 2.

Low cost, simple design. No sliding seals to wear, ensuring long, trouble-free life regardless of poor media conditions.



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SPECIFICATIONS	125V	250V	501V
TYPE OF OPERATION	Toggle		
FUNCTION	2-pos, 3-port, detent		
PIPING TYPE	Inline, Direct Piping		
MEDIA	Air, Inert Gas		
TOGGLE ORIENTATION	Unlimited. Rotate 360°		
WETTED MATERIALS	Zinc Plated Steel, Brass, Buna, SST	Zinc Diecast, Brass, Buna, SST	Brass, Buna, SST
PRESSURE RANGE - PSI (BAR)	0-125 PSI		
FLOW (Cv)	0.3	0.8	3.5
PRESSURE RANGE - PSI (BAR)	0-125 PSI		
AMBIENT TEMPERATURE	-20° - 225° F		
PORT SIZE	1/8 NPSF	1/4 NPSF	1/2NPT
WEIGHT - OZ	5	10	19
MODELS AVAILABLE*			
LINE MOUNT	125V-3-10-20	250V-3-10-20	501V-3-12-20
BASE MOUNT	125V-3-10-21	250V-3-10-21	501V-3-12-21
PANEL MOUNT	125V-3-10-22	250V-3-10-21	501V-3-12-20
OPTIONS	VAL - Viton® Seals		
	BRB - Brass Body		--

* For 2-way function, plug exhaust PORT 3.



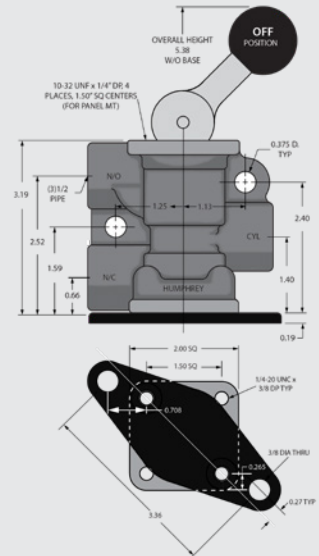
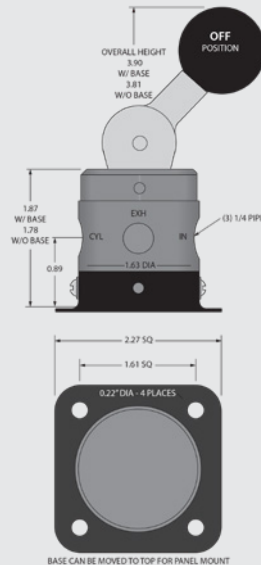
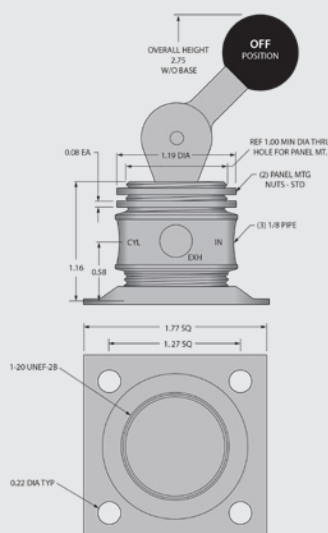
125V



250V



501V



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Humphrey Products Company

5070 East N Avenue

Kalamazoo, MI 49048 USA

P: 269.381.5500

F: 269.381.4113

Humphrey