310, S310, 410, S410, M310, M410

Humphrey's popular valve series, the 310 and 410 solenoid valves, provide outstanding performance and reliability in a simple, versatile design. The pressure-balanced poppet, direct-acting operating principle provides multi-purpose functionality in a compact body.

310: 2- or 3-way, normally closed or open

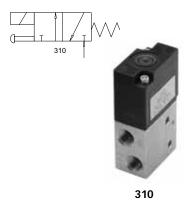
410:

4-way with integral flow controls 410-70:

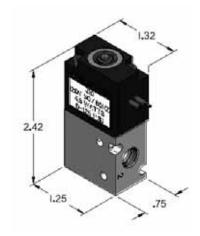
Available in several mounting options, as inline, stackable or manifold mount. The new 410M manifold accepts the standard 310 and 410 inline valves for a low cost manifold solution.

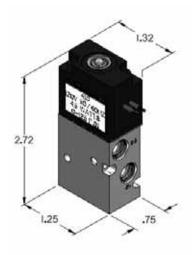
# Features and Benefits:

- Compact, high flow construction.
- Quiet operation. No AC hum.
- Electrical connection options include lead wires, DIN-type or conduit.
- Short stroke, fast response, poppet design.
- Low leak rate.
- Reliable, tolerant of difficult ambient/media conditions.
- Order "V310" for multi-purpose 3-port use, for pressure or vacuum, diverter or selector. See Vacuum, p. 76-77.
- Use 410 as universal valve, 3-way or 4-way, multi-purpose.
- · Available in common AC or DC voltages.









### **SPECIFICATIONS FOR 310 AND 410**

410

Pressure Balanced – Spring Return				
2-, 3- or 4-Way				
1/8 PIPE				
Air, Inert Gases				
28"Hg to 125 PSIG (see Vacuum, p. 76-77)				

310, \$310, 410, \$410, M310, M410

#### Manifolds and Subbases

310 and 410 series valves are available in three mounting/ porting types: Inline, Stackable, and Manifold.

- Inline: 310, 410 and 410-70 valves can be individually mounted via body mounting holes or hard plumb mount. 410M Manifolds accept Inline valves, are low profile/ cost effective, and ideal for OEM applications. Manifolds are shipped with gaskets and screws.
- Stackable: S310, S410 and S410-70 valves "stack" together with tie-rods, gaskets and end plate kit (PN 7-900A) for a compact, expandable solution.
- Manifold: M310, M410 and M410-70 valves are base piping types to permit manifold mounting to SM manifolds. Ports 1, 2, 3 and 4 located in manifold for convenient valve replacement without disturbing the plumbing.







and \$310 Stackable Assembly

Stackable Valve and Manifold Types Available	Overall Size (valves not mounted)	Nominal Dimensions (inch) L H D		
410M Manifold: Extruded Aluminum. Delivery port 2 and 4 located on VALVE. Accepts 310 and 410 valve models.	Two Station (410M2)	2.69	0.80	1.57
	Each Additional station	0.76	0.89	1.57
	Max # of stations		12	
Stackable Valve Type: Extruded Aluminum End Plates for Stackable Valves. Delivery port 2 and 4 located on VALVE. Available in S310 and S410 valve models.	Two Valves plus End Plates	1.94	2.82	1.86
	Each Additional Valve	0.75		1.00
	Max # of stations		12	
SM Manifold: Extruded Aluminum. Delivery ports 1 and 2 located on MANIFOLD. Accepts M310 and M410 valve models.	Two Station (SM2)	1.94	- 2	1.62
	Each Additional station	0.75	2	1.02
	Max # of stations		12	
Consult website for exact dimensions and additional manifold configurations.				

## **HOW TO OBTAIN SPECIFICATIONS FOR A PARTICULAR VALVE(S)**

- → Go directly to www.humphrey-products.com/dynamic/products
- Or, visit www.humphrey-products.com and select "Online Product Guide."
- Once you have followed the steps to get the valve you need, select "Download Spec Sheet." Doing this will create a personalized PDF of the valve, which you may save to your computer and print at your convenience. These spec sheets are helpful when placing your order(s).

#### **HOW TO ORDER HUMPHREY VALVES AND ACCESSORIES**

- Go directly to: www.humphrey-products.com/?q=content/find-distributor
- Or, visit www.humphrey-products.com, select "Find A Distributor," and input your information to locate a distributor nearest you.
- Or, call Customer Service at 1-800-477-8707 for the name and phone number of your local distributor.

**HUMPHREY PRODUCTS ARE SOLD WORLD-WIDE** THROUGH AUTHORIZED DISTRIBUTORS