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R2800 Series Pressure Pilot

Application:

The output from this pressure pilot can be used to throttle control valves to maintain a constant field adjustable pressure setting. The 2800 Series are used with both back pressure valves and pressure reducing valves. The pilot will control pressure on separators, vessels, flow lines or any location where the pressure must be maintained at a constant level.

Operation:

The signal pressure is applied to two opposing diaphragms. The upper diaphragm is larger than the lower diaphragm. As a result, signal pressure tries to move the diaphragm assembly up. Adjustable spring tension opposes this movement.

The diaphragm assembly moves upward when the pressure is sufficient to overcome this spring tension. This closes the supply and opens the output port to exhaust. The opposite occurs when signal pressure decreases. The diaphragm assembly moves downward closing the exhaust, then opening the supply valve. This combination creates a throttling action that maintains a desired output for the pressure setting required. Output from 0 to full supply pressure is proportional-to-signal pressure.

The 2800 Series is a non-bleed, reverse acting type pilot.



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Specifications:

Pressure:	
<i>Signal:</i>	25 psig to 350 psig maximum, liquid or gas
<i>Supply:</i>	5 to 50 psi, air or gas
<i>Output:</i>	0 to full supply
Temperature:	-20°F to +180°F; available to 240°F
Material:	
<i>Body:</i>	Center housing: aluminum (available in stainless steel)
	Lower housing: aluminum
	Spring housing: cast iron
<i>Plug:</i>	Stainless steel
<i>Seat:</i>	Stainless steel
<i>Diaphragm:</i>	Nylon reinforced nitrile (available in fluorocarbon)
Connections:	All 1/4" NPT

Ordering Chart:

R2800 Series: Pressure pilot

Type:

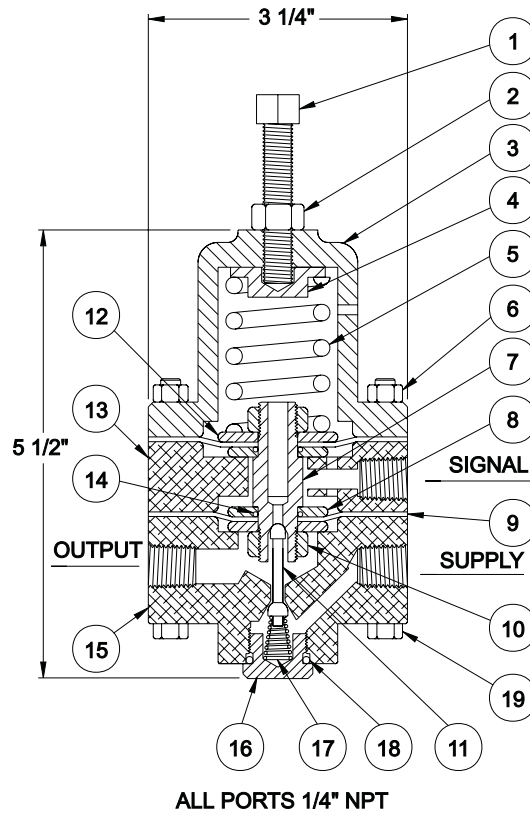
- 01 - Standard
- 05 - Options (*see common options list*)

Option Number:

- () - Pathway will assign an option number based on specified requirements.

R2800- ()
Example: R2800-01

R2800 Series Pressure Pilot



Model Item	R2800 Part #	Pressure Actuated Pilot Description	Material	Qty
1	10209	Adjustment Screw	Plated	1
2	10177	Jam Nut	Plated	1
3	20352	Spring Housing	Cast Iron	1
4	20673	Spring Retainer	Carbon Steel	1
5	10067	Spring	316 ss	1
6	10200	Cap Screw	Plated	5
7	20669	Upper Seat	303 ss	1
8	20672	Small Diaphragm Plate	303 ss	3
9	10102	Diaphragm	Nylon Reinforced Nitrile	2
10	10183	Jam Nut	18-8 ss	2
11	20649	Plug	303 ss	1
12	20671	Large Diaphragm Plate	Carbon Steel	1
13	20351	Spacer Ring	Aluminum	1
14	10114	O-Ring	Nitrile	2
15	20350	Body	Aluminum	1
16	20670	Plug	Brass	1
17	10068	Spring	316 ss	1
18	10124	O-Ring	Nitrile	1
19	10168	Hex Nut	Plated	7
20	10329	Cap Screw (not shown)	Plated	1