

PCV - Series 5200 Diaphragm Actuated Control Pinch Valve



- Precise, responsive control.
- Sleeve is the only component in contact with the media, eliminating the need for expensive alloy bodies.
- Versatile choice of sleeve trim to meet exact flow requirements.
- External stroke adjustment.
- Bi-directional, Drop-tight shutoff.

Red Valve's Series 5200 Diaphragm Actuated Control Pinch Valve offers the ability to control process fluid in small diameter applications. A diaphragm actuator offers a more responsive relationship between travel and air pressure since there is less friction and hysteresis than with piston actuators. This results in more accurate response to the instrument signal and tighter control of the process fluid.

The Series 5200 Diaphragm Actuated Control Pinch Valve is designed with a heavy-duty, one-piece yoke. This permits a wide array of accessories to be mounted directly and easily to the top works. The Series 5200 Diaphragm Actuated Control Valve is available in stroke sizes up to 3". A direct mount or short yoke design is available to reduce overall valve height. The simple construction of the diaphragm actuator makes it a highly cost-effective control valve.

Materials of Construction

- **Body:** Ductile iron
- **Sleeves:** Pure Gum Rubber, Ethylene Propylene Diene Terpolymer (EPDM)*, Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM)*, Chloroprene (CR)*, Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR).
* - White food grade options available.
- **Drilled and tapped flanges:** ASME 150, ASME B16.1 125 cast flanges, AWWA C110 125 flanges, EN1092 PN 6, EN1092 PN 10, EN1092 PN 16, JIS 5K, JIS 10K. Other drill patterns available upon request.
- **Actuators:** Air to Open/Air to Close (ATO/ATC), Air to Open/Fail Close Spring (ATO/FCS), Air to Close/Fail Open Spring (ATC/FOS).
- **Optional:** Extended stems and torque tubes, floorstands, control components.

Available Options:

- 4-20 mA 3-15 psi, 6-30 psi, 9-45 psi instrument signal to the positioner to control plant air.
- Double-acting or spring return.
- Fail position is field reversible on spring-return actuators.

SERIES 5200 DIAPHRAGM ACTUATED

VALVE SIZE	DIMENSIONS in/mm				WORKING PRESSURE** psi/kPa	WEIGHT ATO/ATC lbs/kg
	LENGTH L	WIDTH W	HEIGHT			
			H	ATO/ATC H1		
1" 25mm	7.25 184	6.00 152	2.44 62	23.50 597	150 1030	58 26
1.5" 40mm	8.75 222	8.00 203	2.75 70	28.25 718	150 1030	109 49
2" 50mm	10.00 254	8.00 203	3.50 89	28.75 730	150 1030	144 65
2.5" 65mm	10.88 276	9.00 229	4.00 102	38.38 975	150 1030	173 78
3" 80mm	11.75 298	11.50 292	4.25 108	38.63 981	150 1030	213 97

** Higher working pressures available.

