

PCV - Series 9000 High Pressure Manual Pinch Valve



- High pressure pinch valve design.
- Heavy-duty sleeve is the only wetted part.
- Extended service life.
- Sealed body design.
- Full pressure rated body.

The Series 9000 High Pressure Manual Pinch Valve is designed with ASME Class 300 flange drilling. The heavy-duty elastomer sleeves are reinforced with high strength nylon, polyester fabrics or para-aramid synthetic fiber material. Several heavy-duty sleeve designs are available. The elastomer sleeve will close even on solids. The flexing action of the sleeve eliminates the possibility of scaling. Two heavy-duty pinch bars close the sleeve. All valve working parts are isolated from the process by the sleeve. Special O-ring seals built into the flange prevents leakage at the flanges. Combining these features with a sealed body design and no packing to maintain results in a simple, rugged, no-hang-up, maintenance-free valve.

In order to accommodate the higher working pressure design, the valve is normally sized one size larger to allow for the thick double wall high pressure sleeve. As shown on the chart below, a 6" port size valve requires an 8" flange body size. Series 9000 designs are also available in ASME Class 150 designs. They are also available with pneumatic, electric or hydraulic actuators. Several bevel gear actuators are available for on/off manual operation.

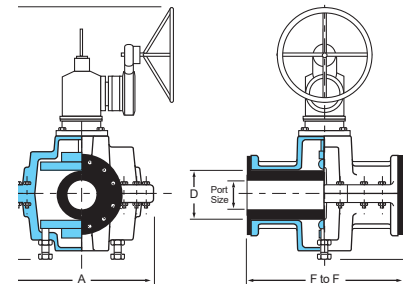
Materials of Construction

- **Body:** Ductile iron.
- **Sleeves:** Pure Gum Rubber (PGR), Ethylene Propylene Diene Terpolymer (EPDM)*, Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM)*, Chloroprene (CR)*, Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR).
- *White food grade options available.
- **Bevel Gear Operator:** 4:1, 8:1, 16:1 or 22:1 actuator.
- **Flanges:** ASME B16.5 Class 300 Flanges. Optional Class 150 flanges and metric flanges available.

SERIES 9000 MANUAL

DIMENSIONS in/mm

FLANGE SIZE D*	PORT SIZE*	LENGTH F-TO-F	WIDTH A	HEIGHT		STANDARD PRESSURE FULL PORT SLEEVE		HIGH PRESSURE		VALVE WEIGHT lbs/kg
				B	C	PORT SIZE P in/mm	MAX WORKING PRESSURE AT 100°F* psi/kPa	PORT SIZE P in/mm	MAX WORKING PRESSURE AT 100°F psi/kPa	
2" / 50mm	1.00 / 25	9.50 / 241	16.00 / 406	8.00 / 203	22.00 / 559	2.00 / 51	335 / 2310	1.50 / 38	720 / 4960	250 / 113
3" / 80mm	2.00 / 50	10.75 / 273	17.00 / 432	9.00 / 229	26.00 / 660	3.00 / 76	240 / 1655	2.00 / 51	720 / 4960	335 / 152
4" / 100mm	3.00 / 80	14.00 / 356	20.00 / 508	11.00 / 279	28.00 / 711	4.00 / 102	185 / 1276	3.00 / 76	720 / 4960	600 / 272
6" / 150mm	4.00 / 100	20.00 / 508	23.00 / 584	13.00 / 330	33.00 / 838	6.00 / 152	245 / 1689	4.00 / 102	720 / 4960	900 / 408
8" / 200mm	6.00 / 150	26.00 / 660	25.00 / 635	15.00 / 381	39.00 / 991	8.00 / 203	250 / 1720	6.00 / 152	720 / 4960	1000 / 454
10" / 250mm	8.00 / 200	32.50 / 826	33.00 / 838	20.00 / 508	51.00 / 1295	10.00 / 254	200 / 1380	8.00 / 203	720 / 4960	1200 / 544
12" / 300mm	10.00 / 250	38.50 / 978	40.00 / 1016	25.00 / 635	62.00 / 1575	12.00 / 305	175 / 1210	10.00 / 254	720 / 4960	1600 / 726



*Other port sizes available.

**Higher working pressure designs available, consult factory.