

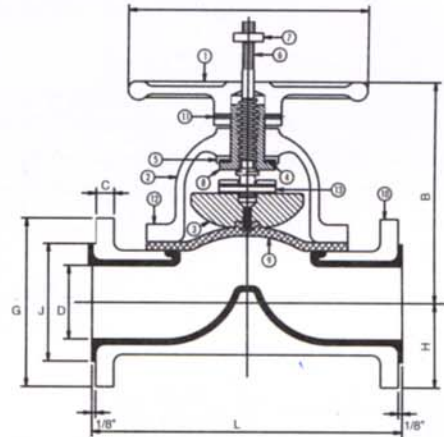
Lined Diaphragm Valves - Ideal for throttling and flow control requirements

"PHOENIX" Lined diaphragm valves combine unusually accurate throttling of flow with positive shut-off.

The streamlined flow passage creates minimum pressure drop and the compressor is carefully matched to wear contour to exert uniform pressure on the diaphragm, increasing diaphragm life. All of the valve's operating parts are completely isolated from the process stream. Six different diaphragm materials are available to match virtually any application.

**Maintenance-free
Diaphragm Valves
Lined
and
Unlined**

**Flanged
PN 16
DN 25-150**



Design Features

- Rugged, two piece design body halves made from C.I. (I. S. 210 FG 200)
- Full port design resulting in high CV- value, especially required when high viscosity liquids have to be controlled.
- Soft sealing valve, weir type
- Sealing in the passage and towards the outside by a completely enclosed diaphragm with a supporting compressor.
- The FEP/PFA lining min. 3 mm thick and high quality molding offers highest corrosion resistance.
- The liner is locked to the casting by means of machined dovetails in the casting, permitting the valve to be used in high temperature and vacuum without the possibility of a liner collapse.

Operating Conditions

Temperature range from -30° C up to 160° C depending on lining materials

Pressure range from vacuum up to 16 bar (225 psii)

Rigid Testing

Every assembled valve is spark tested with 10,000 volts to assure liner integrity. Each valve is also pressure tested with 10 resp. 16 bar air (150 resp. 225 psi) to assure bubble tight service

Standard Materials

Body / Bonnet	:	made of C.I. (I.S. 210 FG 200)
Body Liner	:	made of FEP or PFA. Consistent uniform liner thickness provides max. permeation protection, with a minimum wetted lining thickness of 3.0 mm (0.12 inch) Also available in Elastomer liner such as : Ebonite / Hypalon / Butyl / Neoprene / Natural / Ca-Mg-Si Free etc.
Compressor	:	C.I.
Stem	:	13% Cr. Steel or S. S. 304
Bolts / Studs / Nuts	:	B7, 2H & SS 304
Diaphragm	:	PTFE with EPDM back up. Other options are : Neoprene, EPDM, Butyl, Hypalon, Viton etc.

Full port diaphragm valves dimensions :

Size DN	25	40	50	80	100	150
Length "L"	133	165	197	260	311	412

All dimensions are in mm. unless otherwise stated