

# PROVEN PERFORMANCE THAT MEETS YOUR EXPECTATIONS

## Various Type of Lining for Manual Diaphragm Valves



### Ebonite-hard rubber lining:

Natural Rubber Ebonite, Sulphur cured. Highly suitable for inorganic bases, salts, hydrochloric acid, metal plating solution, photographic developers, water chlorinated moist chlorine.

### Halar Lining: (Ethylene chlorotrifluoroethylene):

Resists many industrial chemicals and additionally protects the exposed parts of valve bodies to cut-out painting. Excellent resistance to mineral and oxidising acids, inorganic basis, salts.



### Glass Lining:

Purity, smooth flow (specially on viscous fluids) with great strength and resistance to chemical attack. Excellent for strong mineral acids, halogens.

### PVDF (Polyvinylidene fluoride):

PVDF is high molecular weight polymer of vinylidene fluoride. It is mechanically strong, thermally stable and resistant to most inorganic acids and bases - for high performance without exotic material costs.



**PFA lining (Perfluoro Alkoxy):** High Performance fluorocarbon lining is resistant to heat and stress cracking and its moisture absorption is negligible. Combines strength and abrasion resistance for long service. PFA has good mechanical and physical properties at high temperatures. It is capable for resisting strong acid attack and can operate at 200° C.

**Polypropylene lining (PP):** PP is a general purpose lining with particular applications for water treatment, effluent lines, especially hot effluent from dyestuffs, chemical processing etc. This material has an ultra high heat stable copolymer.



### Other types of rubber lining available :

We can offer Natural Nitrile (Buna-N), Hyplon, Butyl, FRP, Lead, Teflon (Halar, ECTFE, FEP, PFA), Food grade lining, EPDM-calcium, magnesium & Silica free etc. Types of rubber lining.

### Type of body diaphragms :

We can offer Natural Neoprene, Hyplon, Butyl, EPDM, PTFE with Neo, Butyl, EPDM pad, Viton, Nitrile Buna-N, Food grade etc. type of body diaphragms.

## Standard Rubber Lining Thickness:

### Standards:

- Diaphragms Valves confirm to BS:5156 (Series's'); Euro : EN 13397 (2001)
- Casting standardized to IS 210 grade FG 260
- Flanges size 15-80 : Connecting dimensions and Thickness to BS - 10 Table F (BS:5156)
- Flanges Size 100-350 : Connecting dimensions & Thickness to ANSI B 16. 1 Class 125 & ANSI B 16.5 Class 150 lbs (BS:5156)
- Flanges Size 15-350 : Connecting dimensions and Thickness to BS - 4504, PN - 10 / PN - 16 - (DIN : 3202 - F1)
- Standard scwd ends: Size 6-100 to have BS:21 (Parallel or taper-threads) Or ANSI / ASME B1.20.1 (NPT) threads.
- Buttweld ends: Size 6-100 as per ANSI B 16.11 & ANSI B16.25 suitable for schedule 40/40S respectively

Body Size mm	Thickness
15 to 65	3 mm
80 to 100	3.5 mm
125 to 150	4 mm
200 to 350	5 mm

