

Diaphragm Valve

Overview

Diaphragm valves are used on shut-off and throttling service for liquids, slurries and vacuum/gas, and it is a quick opening valve. The seal is achieved by a flexible membrane, usually elastomer, and possibly reinforced with a metal part.

The membrane is tensed by the effect of a stem/compressor with lineal movement until contact is made against the seal of the body. The operating parts of the diaphragm valve are isolated from the flow. This makes this valve suitable for viscous flows and also hazardous, abrasive, and corrosive flows as its sealing system avoids any contamination towards or from the environment.

PRODUCTS

Specifications

SIZES RANGE

- 1/2" to 4" (15mm to 100mm)

PRESSURE RATING

- PN10, PN16, PN25, Class 150.

DESIGN STANDARDS

- BS 5156

TESTING STANDARD

- API 598

Operations

MANUAL

- Handwheel

Diaphragm valves use a flexible sheet pressed close to the edge of a solid dam to narrow the flow path for fluid.



End Connection

SCOPE
STANDARD
FLANGED END
ASME B16.5, DIN STD

Special Features

- Weir design reduces diaphragm travel time, increasing its life & pocket less design.
- The most economical corrosion/abrasion resisting valve available today.
- Versatile body & diaphragm materials.
- Permanent bubble tightness against slurry, fibre & gases – Resilient closure.
- No gland packing & simple in-line maintenance.
- Easy dismantling & assembly without removing the body from pipeline.

Shutoff Rating :

- Single, two and three piece constructions