

Diaphragm Valve

Diaphragm valves are used for on/off and throttling service for liquids, slurries and vacuum/gas.

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 linear 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.

Diaphragm valves are available in a wide variety of metals, solid plastics, plastic, rubber and glass linings. They are well suited to the handling of multiple chemical applications both clear fluids as well as slurries.

The diaphragm valve has an extended use for applications at low pressures and slurry fluid where most other kinds of valves corrode or become obstructed. It is a quick opening valve.

There are two types of diaphragm valves:

- **Weir** : This valve can be used for either on/off or throttling services
- **Straightway** : This valve is used only for on/off services

Typical Applications:

Chemical, Fossil Power Plants, Pharmaceutical, Mining, Nuclear Power Plants, Water Treatments, etc.