



DUAL STRAIGHT THROUGH DIAPHRAGM VALVE (DSTDV)

DUAL's Straight-Through Diaphragm Valve consists of the valve body and a diaphragm. The valve is closed mechanically via movement of a compressor gate which is located above the diaphragm. The valves are well suited for on/off throttling control applications involving slurries, powders, liquids, granulated materials and applications where scale build is a problem.

- Fast and easy diaphragm change.
- Single wearing part.
- Replaceable Urethan diaphragm and body lining.
- No glands which require regular adjustment.
- Flexible reinforced diaphragm.
- Open/closed indicator (Non rising spindle type).



FEATURES

- 240 Psi (16 Bar).
- Thrust bearing for ease of opening and closing (handwheel type).
- Long operating life.
- Full bore, low friction loss.
- 100% drip tight closure even with solids in the medium.
- Light weight.
- Seals in both directions.
- All types of actuators can be fitted.
- Visible spindle indicator.

PRODUCT SPECIFICATION

BODY:	Cast Aluminium and cast SG Iron
ELASTOMER DIAPHRAGM:	Gum black and red rubber, EPDM, Butyl, Chlorobutyl, Neoprene, Polyurethane, Viton and Hypalon.
SIZE RANGE:	50mm - 350mm.
PRESSURE RATING:	16 Bar (for higher pressure consult factory).
THRUST BEARINGS:	To reduce operating torque (Handwheel type).
THREADED BODY:	25mm to 80mm.
FLANGED BODY:	Drilled to SABS, ANSI, BS or DIN.
VALVE INTERNALS:	304 Stainless Steel Spindles, Rubber diaphragm.
BODY LINING:	As per Elastomer diaphragm.
MATERIAL CERTIFICATION:	Certified chemical and physical test reports can be supplied.
VALVE TYPE:	Rising and non rising spindle.
TEMPERATURES:	-50°C to +140°C.

HOW THE VALVE

APPLICATIONS

- Mining and mineral processing.
- Power generation.
- Sand and gravel.
- Chemical and soda ash.
- Pulp and paper.
- Environmental and effluent.
- Food stuffs

ACTUATORS

All types of actuators can be fitted, electric, gearbox, hydraulic, pneumatic and handwheel.

DIAPHRAGM MATERIAL

Dual offers the following alternative diaphragm materials, providing chemical and abrasive resistance to most media such as:

- Polyurethane.
- Natural red rubber.
- Natural black rubber.
- Neoprene rubber.
- Nitrile rubber.
- EPDM rubber.
- Hypalon.