

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).



PRODUCT SPECIFICATION

BODY: Cast Aluminium and cast SG Iron

ELASTOMER DIAPHRAGM:Gum black and red rubber, EPDM,
Butyl, Chlorobutyl, Neoprene,

Butyl, Chlorobutyl, Neoprene, Polyurethane, Viton and Hypalon.

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SIZE RANGE: 50mm - 350mm.

PRESSURE 16 Bar (for higher pressure consult

RATING: factory).

THRUST To reduce operating torque

BEARINGS: (Handwheel type).

THREADED 25mm to 80mm.

BODY:

FLANGED Drilled to SABS, ANSI, BS or DIN.

BODY:

VALVE 304 Stainless Steel Spindles, Rubber

INTERNALS: diaphgram.

BODY LINING: As per Elastomer diaphragm.

MATERIAL Certified chemical and physical test

CERTIFICATION: reports can be supplied.

VALVE TYPE: Rising and non rising spindle.

TEMPERATURES: -50°C to +140°C.

FEATURES

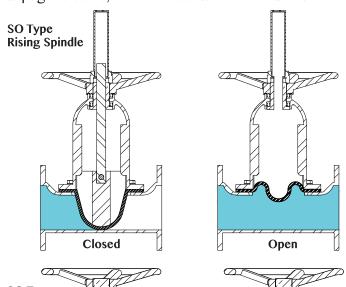
- 240 Psi (16 Bar).
- Thrust bearing for ease of opening and closing (handwheel type).
- Long operating life.
- Full bore, low friction loss.
- 100% drip tight closure even with solids in the medium.
- Light weight.
- Seals in both directions.
- All types of actuators can be fitted.
- Visable spindle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

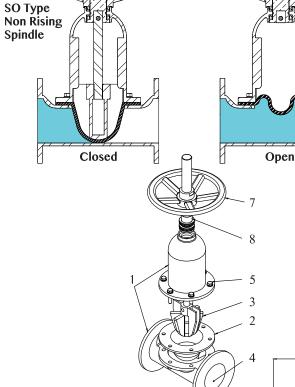
www.dualvalves.com

Built to Last

HOW THE VALVE OPERATES

As the valve cycles downwards, the compressor will start to compress the soft rubber diaphragm, from the top of the valve only, therefore achieving a 100% driptight closure, even with solids in the medium.





PART	DESCRIPTION
Body/Bonnet	Cast Aluminium or SG Iron
Diaphragm	Rubber or Urethane
Air Connection	Steel Ball Valve
Valve Body Lining	Rubber, Urethane, Halar or Ceramic
Bolts and Nuts	Cadmium Plated Steel
Paint	Epoxy Powder coated, Rilsan Lined or Painted to Custom spec
Hand wheel	Cast SG Iron
Rev Nut	Brass
	Body/Bonnet Diaphragm Air Connection Valve Body Lining Bolts and Nuts Paint Hand wheel



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

VALVE WORKS ON TAILINGS DAM



ACTUATORS

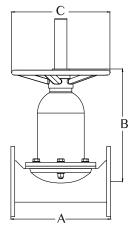
All types of actuators can be fitted, electric, gearbox, hydraulic, pneumatic and handwheel.

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.

DIMENSIONS AND SPECIFICATIONS



NOMINAL BORE (mm)	Α	В	С	WEIGHT (kg)
25	127	121	100	5
32	146	121	100	10
40	159	121	100	12
50	191	181	100	15
65	216	200	100	20
80	254	245	300	30
100	305	267	300	40
125	356	305	300	50
150	400	375	500	70
200	521	410	500	120
250	635	559	500	170
300	749	635	600	420
350	980	664	600	500

Dimensions and weights are for guidance only - detailed dimension drawings available on request. All dimensions are in millimeters, unless stated.



CORPORATE HEADQUARTERS:

166 ROTTERDAM ROAD

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