

DUAL WEIR TYPE (WO-TYPE) DIAPHRAGM VALVE (DWTDV)

DUAL manufacture a full range of diaphragm valves. Both WO(Weir Orifice) and SO(Straight Orifice) type. The SO valve can safely handle a line pressure of up to 1600kPa(16 Bar) and they are tested to 2500kPa(25 Bar). All bodies and Bonnets are made from high grade SG42 cast iron and are suitable for lining with various rubber, urethane, ceramic, Halar and Fluoropolymers like PTFE and ECTFE.



FEATURES

- Valve can be installed in any position
- Housing acts as a built in indicator
- Long operating life
- Full bore, low friction loss
- 100% Drip tight closure even with solids in the medium
- Light weight
- Seals in both directions
- High flexible diaphragm design reducing closing forces, improves recovery to full open position
- Enclosed body protects diaphragm from the environment and contaminants in the event of diaphragm failure
- Fast and easy diaphragm change
- Single wearing part

- No glands which require regular adjustment
- Pneumatic or hydraulic medium can be used to operate the valve
- Ideal for remote operations

PRODUCT SPECIFICATION

BODY:	Cast Aluminium, Cast SG42 and Cast Iron
DIAPHRAGM:	Gum Black or Red Rubber, EPDM, Butyl, Chlorobutyl, Neoprene, Polyurethane, Viton and Hypalon.
PRESSURE RATING:	16 Bar (for higher pressures, please consult our factory).
SIZE RANGE:	50mm - 350mm.
THRUST BEARINGS:	To reduce operating torque (handwheel type).
FLANGED:	Drilled to SABS, ANSI,BS or DIN.
VALVE INTERNALS:	Spindle, Spindle nut, Compressor, Diaphragm.
BODY LININGS:	EPDM, Butyl, Neoprene, ECTFE, Halar and Polyurethane.
MATERIAL CERTIFICATION:	Certified chemical and physical reports can be supplied.
TEMPERATURES:	-50°C to +140°C

HOW THE VALVE OPERATES

The valve cycles downwards, the pinch mechanism will start to compress the soft rubber diaphragm from the top of the valve only, therefore achieving a 100% drip tight enclosure, with solids in the medium.

APPLICATIONS:

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

ACTUATORS:

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

DIMENSIONS AND WEIGHTS

PART	DESCRIPTION
1	Body/Bonnet Cast Aluminium or SG Iron
2	Diaphragm Rubber or Urethane
3	Air Connection Steel Ball Valve
4	Valve Body Lining Rubber, Urethane, Halar or Ceramic
5	Bolts and Nuts Cadmium Plated Steel
6	Paint Epoxy Powder coated , Rilsan Lined or Painted t
7	Hand wheel
8	Rev Nut