

WEIR TYPE A DIAPHRAGM VALVE

The KLEP Weir Type 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 and various rubber, urethane, ceramic, Halar and Fluoropolymers like PTFE and EXTFE.

Product Specification:

Size Range:	50mm - 350mm
Valve Type:	Rising and non-rising spindle
Elastomer Diaphragm:	Gum Rubber, Red Rubber, EPDM Butyl, Chlorobutyl, Neoprene, Polyurethane, Vitron & Hypalon.
Valve Internals:	304 Stainless steel spindles, rubber diaphragm
Temperature range:	-50°C to + 140°C
Pressure rating:	Up to 240 psi (16 bar)
Body material:	Cast Aluminium, Cast SG Iron
Body lining:	As per elastomer diaphragm
Threaded Body:	25mm to 80mm
Flanged body:	Drilled to SABS, ANSI, BS or DIN
Hydro-Static Test:	1.5 Times the rated pressure

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.
- Lightweight.
- Seals in both directions.
- High flexible diaphragm designed to reduce closing forces & improved full open recovery.
- Enclosed body protects diaphragm from the environment and contaminants in the event of diaphragm failure.
- Fast easy diaphragm change.
- Single wearing part.
- No gland which requires adjustment.
- Pneumatic & hydraulic options.
- Ideal for remote locations.



How the Valve Operates

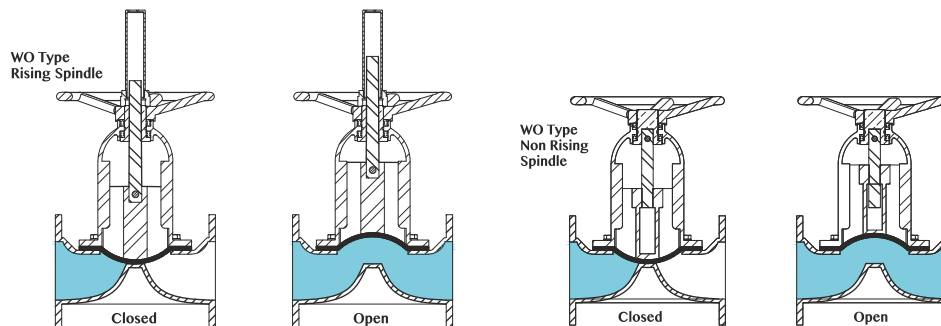
As the valve cycles downwards, the compressor will start to compress the soft rubber diaphragm, from the top of the valve only, therefore achieving 100% drip tight closure, even with solids in the medium.

Applications & Accessories

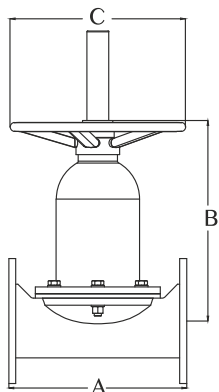
The valve is suited for mining and mineral processing, power generation, sand/gravel, chemical & soda ash, pulp & paper, environmental & effluent, dry feeds & powders.

Actuators

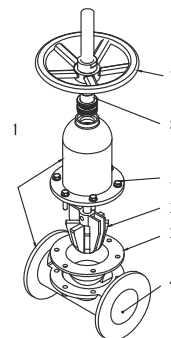
All types of actuators can be fitted; electric, gearbox, hydraulic, pneumatic and handwheel.



Dimensions & Weights



Valve Size (mm)	F/F			Weight (kg)	
	A	B	C	Steel	Aluminium
25	127	121	80	5	2
35	146	121	80	6	2
40	159	121	80	10	3
50	191	181	300	12	4
65	216	200	300	20	8
80	254	245	300	30	10
100	305	267	400	35	12
125	356	305	400	50	15
150	406	375	400	70	20
200	521	410	500	100	30
250	635	559	500	185	40
300	749	635	600	200	60
350	980	663	600	450	100



Part	Description
1	Body/Bonnet Cast Aluminium or SG Iron
2	Diaphragm Rubber or Urethane
3	Compressor SG Iron
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 to Custom spec
7	Hand wheel Cast SG Iron
8	Rev Nut Brass

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

Valve Diaphragm

Grade	Material	Colour	Shore Hardness	Temp C
NA	Natural Rubber	White	65 - 75	-30° to 80°
Ni	Nitrile	Yellow	65 - 75	-30° to 80°
BY	Butyl	Blue	60 - 70	-25° to 95°
NE	Neoprene	Red	60 - 70	-25° to 120°
HY	Hypalon	Green	60 - 70	-15° to 100°
V	Viton	Pink	70 - 80	-5° to 150°
PU	Polyurethane	Black	80 - 90	-5° to 80°

