

## STRAIGHT THROUGH KBH DIAPHRAGM VALVE

The KLEP Straight Through High Pressure Diaphragm valve consists of the valve body and a diaphragm. The valve closes mechanically via a compressor, which is located above the diaphragm. These valves are well suited for on/off control applications, involving slurries, powders, liquids, granulated materials and applications where scale build up is a problem.

### Product Specification:

<b>Size Range:</b>	50mm - 350mm.
<b>Valve Type:</b>	Straight Through KBH ( High-pressure)
<b>Elastomer Diaphragm:</b>	Gum Rubber, Red Rubber, EPDM Butyl, Chlorobutyl, Neoprene, Polyurethane, Vitron & Hypalon.
<b>Valve Internals:</b>	304 Stainless steel spindles, rubber diaphragm (rising spindle only)
<b>Temperature range:</b>	-50°C to + 140°C
<b>Pressure rating:</b>	Up to 360 psi (25 bar)
<b>Body material:</b>	Cast Aluminium, Cast SG Iron
<b>Body lining:</b>	As per elastomer diaphragm
<b>Yoke:</b>	Brass rev-nut with two thrust bearings
<b>Flanged body:</b>	Drilled to SABS, ANSI, BS or DIN
<b>Hydro-Static Test:</b>	1.5 Times the rated pressure

### Features:

- 360 psi (25 bar)
- Thrust bearing for ease of opening / closing (handwheel type)
- Long operating life.
- Full bore, low friction loss.
- 100% drip tight closure even with solids in the medium.
- Lightweight.
- Seals in both directions.
- All types of actuators can be fitted.
- Visible spindle indicator.
- Fast easy diaphragm change.
- Single wearing part.
- Replaceable rubber diaphragm and body lining.
- No glands which require adjustment.
- Flexible re-inforced diaphragm.
- Open/closed indicator cover.
- Lifting lugs.



25 Bar Rated Diaphragm Valve  
Rising Spindle Only

## How the Valve Operates

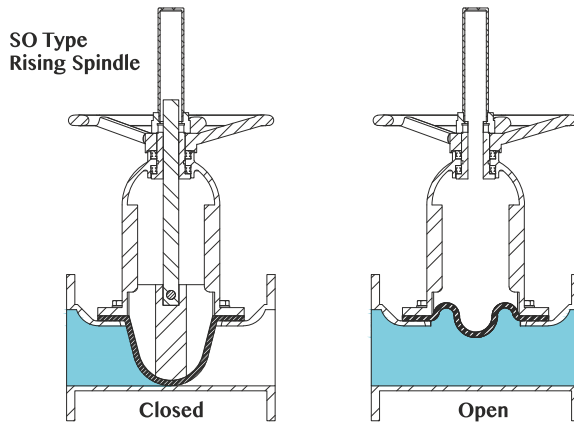
As the valve cycles downwards, the compressor will start to compress the soft rubber diaphragm, from the top of the valve only, therefore achieving 100% drip tight closure, even with solids in the medium.

## Applications & Accessories

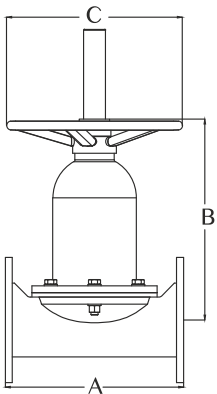
The valve is suited for mining and mineral processing, power generation, sand/gravel, chemical & soda ash, pulp & paper, environmental & effluent, dry feeds & powders.

## Actuators

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

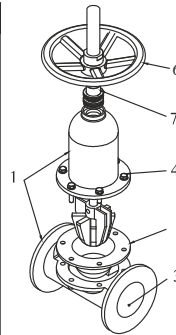


## Dimensions & Weights



Nominal Bore (mm)	A	B	C	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 are available on request. All dimensions are in millimetres, unless otherwise stated.



Part	Description
1	Body / Bonnet
2	Diaphragm
3	Valve Body Lining
4	Bolts & Nuts
5	Paint
6	Hand wheel
7	Rev Nut

## 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°

