



UNI-FLO TYPE KB DIAPHRAGM VALVE



STRAIGHT THROUGH DIAPHRAGM VALVE

Screwed Range: DN25, DN40 and DN50

Flanged Range: DN25 - DN250

Pressure Rating: DN25 - DN100:- 10 bar
DN150:- 6 bar
DN200 - DN250:- 3.5 bar

Temperature Rating: -10°C to 85°C

Body Material: SG Iron BS 420/12

Bonnet Material: SG Iron BS 420/12

Compressor Material: SG Iron BS 420/12

Body Lining Material: Natural Rubber

Diaphragm Material: Reinforced Natural Rubber

Spindle Material: 230 MO7 Mild Steel

Spindle Nut Material: Brass

Flange drilling: BS10 Table D,
BS4504 Table 10

Screwed body thread: ISO R7 (BSP Thread)

DESCRIPTION

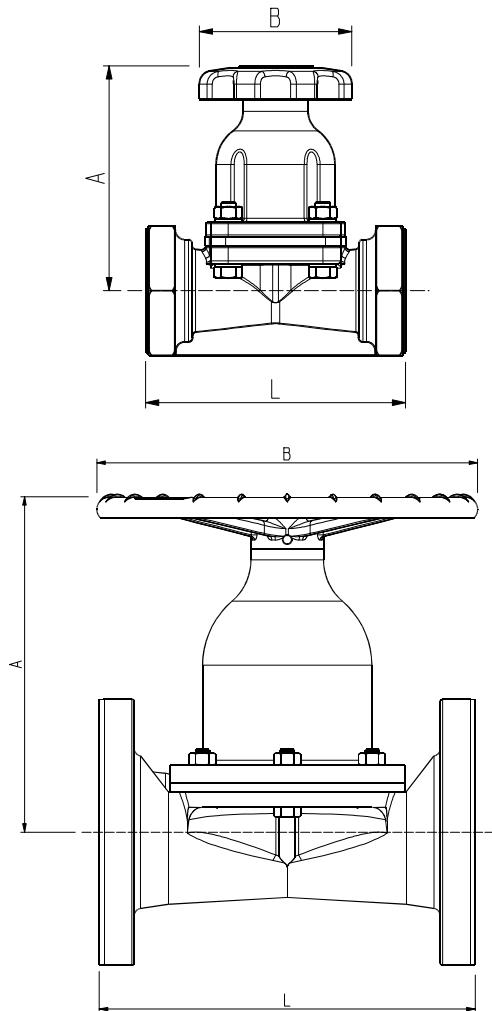
Uni-Flow Type KB diaphragm valves are designed to suit the harsh conditions in the South African mining industry. This time proven design features a straight through bore, with minimal turbulence to handle abrasive slurries with 100% leak tight closure. This improved design is cast in ductile iron (not grey cast iron) to prevent premature failure from abuse during handling and water hammer that is prevalent in many mining applications. The body of the valve is rubber injection moulded to ensure consistent quality. The injection moulded lining is free of pinholes with a consistent thickness throughout the body that cannot be achieved with conventional hand lining. The flanges are fully lined to prevent damage to the flanges from over torqueing the valve during installation.

FEATURES

- Straight through body design for low pressure drop
- Bi-directional sealing
- Valve can be installed in any position
- Flexible closure even with solids present in the valve bore
- Non-rising spindle
- Self-cleaning trapezoidal thread on the spindle
- Fully lined flanges to prevent damage from over torqueing
- Rubber injection moulded body lining
- Ductile iron body (not grey cast iron)
- Working parts isolated from abrasive media



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DIMENSIONS

SCREWED UNLINED BODIES

SIZE	A	B	L	WEIGHT (KG)
25	164	85	111	2.2
40	164	85	143	3.7
50	189	160	168	5.9

FLANGED LINED BODIES

SIZE	A	B	L	WEIGHT (KG)
25	160	85	133	4.2
40	182	85	165	5.7
50	230	160	196	11
80	303	250	260	23
100	324	315	311	28
150	470	615	412	65
200	640	400	527	110
250	745	500	641	185

MATERIALS LIST

PART	MATERIAL
1	Body
2	Ductile Iron
2	Body Lining
3	Natural rubber
3	Diaphragm
4	Ductile Iron
4	Compressor
5	Ductile Iron
5	Bonnet
6	Brass
6	Spindle Nut
7	Mild Steel 230 MO7
7	Spindle
8	Ductile Iron
8	Hand wheel
9	Carbon Steel
9	Pin
10	Stainless Steel
10	Bolt

