



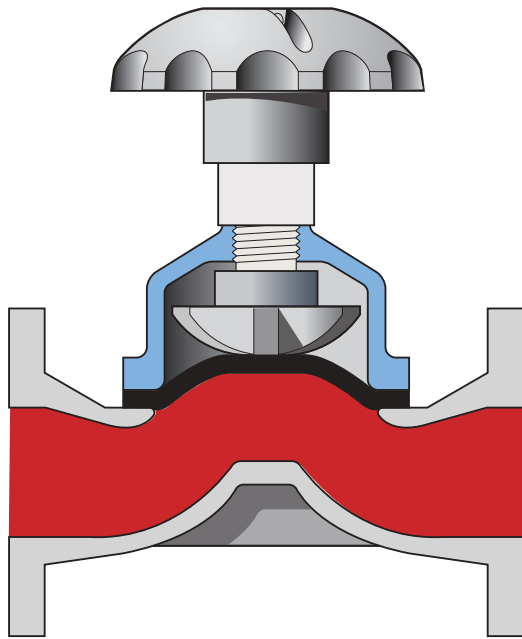
DIAPHRAGM VALVE

Proudly Manufactured in South Africa

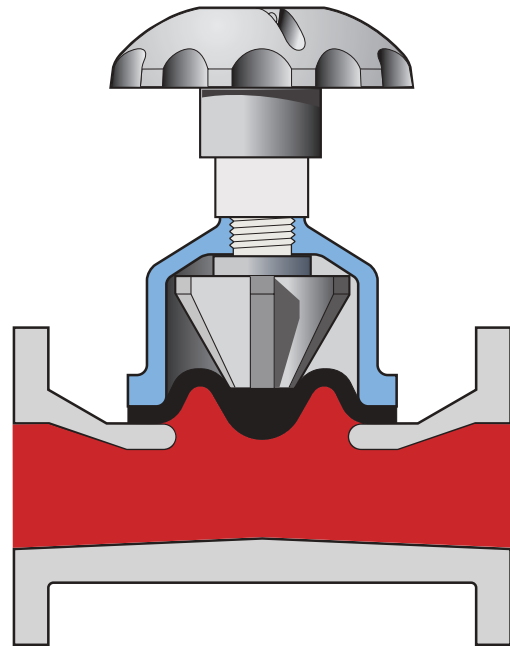
Diaphragm valve

LVSA diaphragm valves are bidirectional. They are used as on-off and throttling valves. The fluid passage is smooth and streamlined, minimizing the pressure drop across the valve and hence it is used in very low pressure applications.

The design of the valve is such that the fluid stream is completely isolated from the working parts of the valve, preventing contamination of the fluid and corrosion of the operating mechanism. Since there is no leak path around the valve stem, the valve is virtually leak tight. This feature makes the valve crucial where leakage into or out of the system cannot be tolerated.



S pattern



Straight pattern

Features :

- Excellent airtightness
- Zero leak from valve seat
- Excellent corrosion and chemical resistance
- Good self-purifying performance
- Excellent maintainability
- Environment friendly types

Applications :

- Acids
- Caustics
- High purity chemicals
- Agricultural chemicals
- Demineralizer systems
- Plastics manufacturing
- Flue gas desulfurization (FGD)
- Mist eliminator
- Recycled water
- Rubber manufacturing
- Chlorine manufacturing



S pattern diaphragm valve



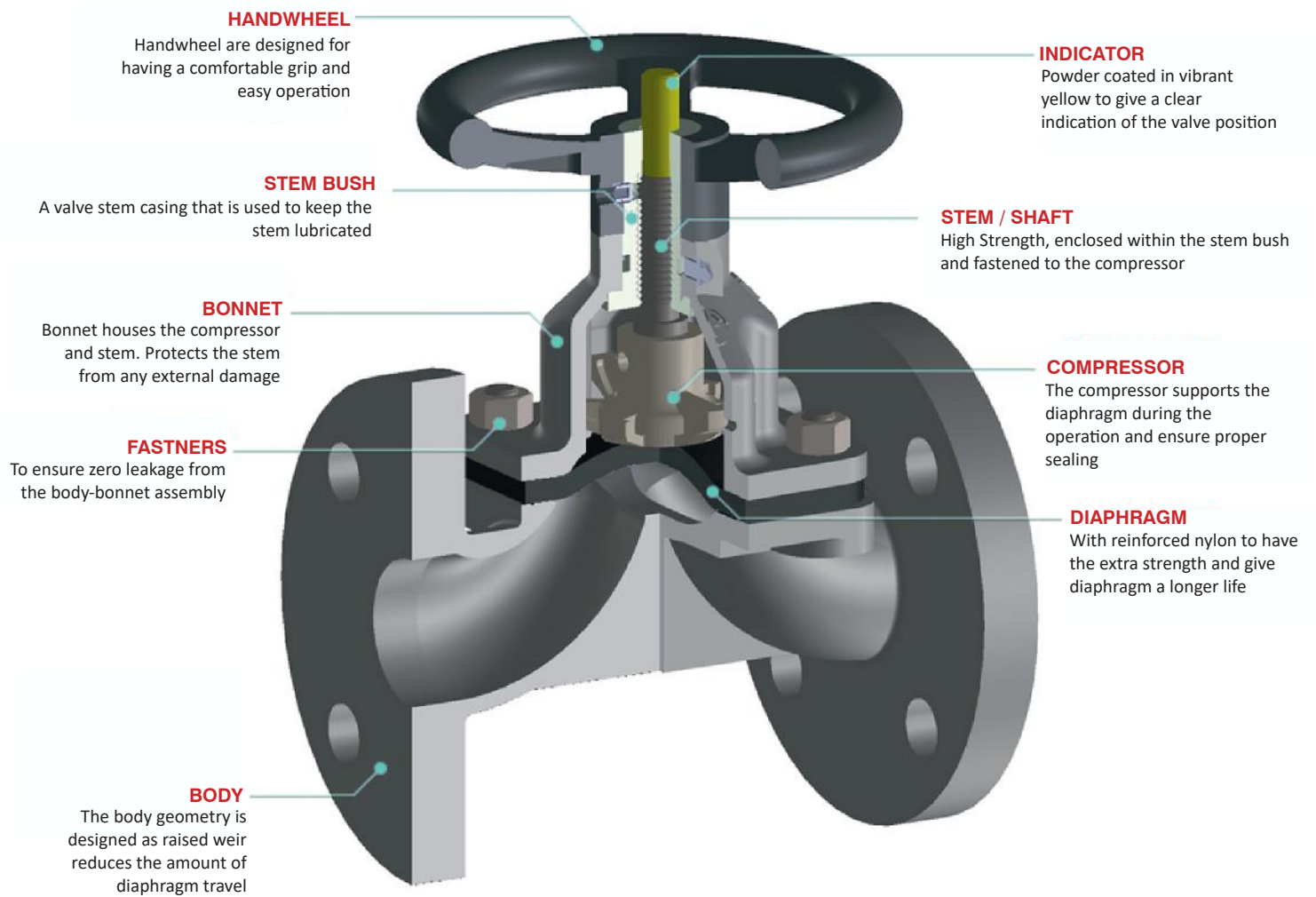
Advantages :

- It is used for on-off and throttling application.
- It offers good chemical resistance due to variety of linings available.
- Stem leakage is eliminated.
- It provides bubble-tight service.
- It does not have any cavity to trap solids, slurries, and other impurities. It is suitable for slurries and viscous fluids.
- These valves are particularly suitable for hazardous chemicals and radioactive fluids.
- These valves do not permit contamination of flow medium, thus they are used extensively in food processing, pharmaceutical, brewing, and other applications which cannot tolerate any contamination.

Manufacturing Standard	: BS 5156 / BS EN 13397
Face to face	: BS 5156 / ASME B16.10
End Connection	: BS table D & table E, PN10/16, class 150
Inspection and Testing standard	: BS 6755-1 / BS EN 12266-1

Test Pressure (Kg/cm ²)		
Size	Body	Seat
15 to 100	15	10
125 to 200	10	7
250 to 300	7	4





Part	Material
Body	Cast iron ASTM A126 cl B, EN-1561 no. EN-1140, SG Iron EN-1563 no. EN-
Bonnet	JS1024, Cast steel ASTM A743 Gr. CC50, ASTM A216 Gr. WCB, Stainless steel
Compressor	ASTM A351 Gr. CF8, CF8M, CN7M
Diaphragm	Natural, Butyl, Neoprene, EPDM, Hypalon, PTFE
Stem	SS410, SS304, SS316
Lining	Natural, Butyl, Ebonite, Neoprene, Hyplon, EPDM, PTFE, Halar, PP, PVDF
Fastners	Steel Gr. 4.6, 4, 8:8, B8-B8M



Straight type diaphragm valve



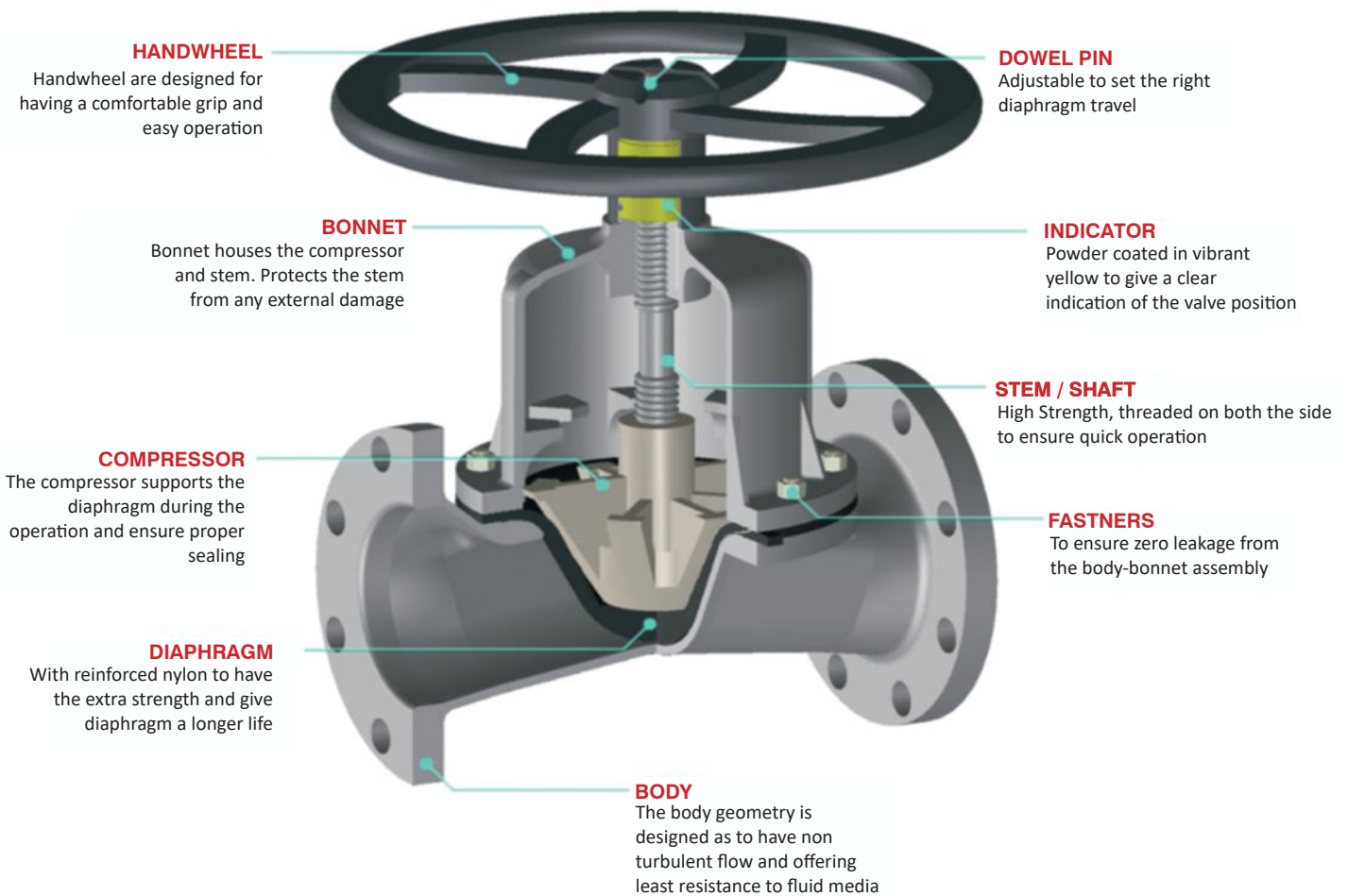
Design features :

- Straight type diaphragm valves are extensively used in resisting the erosive effects of corrosive/abrasive line media.
- The straight type is designed as a full bore to have a smooth and non turbulent flow, offering least resistance while allowing easy cleaning.
- The conical shaped flexible diaphragm ensures consistent leak tightness even when solids, powders and dry media are present.
- The straight type is specially used to avoid viscous slurries and sediments build up.
- Straight type valve can be installed in any position without affecting its operating efficiency.
- Actuation types include manual, electric motor, pneumatic and more advanced control system actuators.

Technical specification

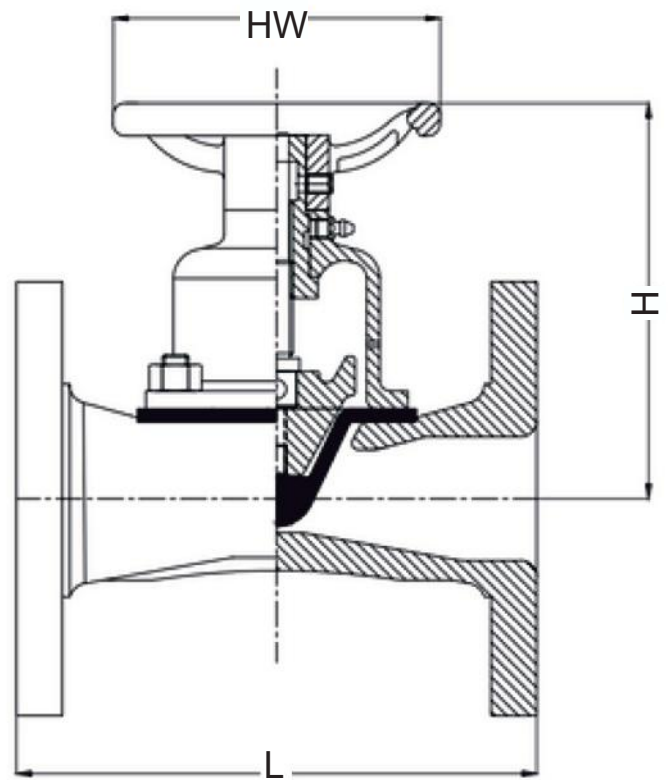
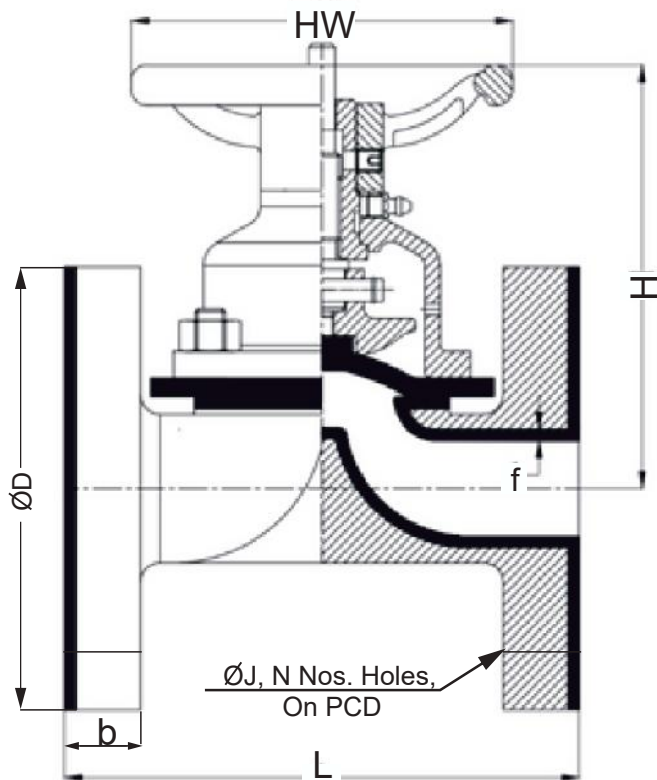
Size	1/2" to 12" (DN15 to DN300)
Pressure rating	PN3.5 to PN10
Design standard	BS EN 13397
Actuation	Manual / Pneumatic / Electric actuator / Chain wheel
Configurations	Rising and Non rising hand wheel / Travel stop / Pad lock





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Dimensions

Size		L	f	ØD	b	ØJ	N	PCD	H	ØHW
inch	mm									
1/2	15	108	3	90	10	15.9	4	60.3	90	70
3/4	20	117	3	100	10.9	15.9	4	69.9	90	70
1	25	127	3	110	11.6	15.9	4	79.4	112	100
1 1/4	32	146	3	115	13.2	15.9	4	88.9	112	100
1 1/2	40	159	3	125	14.7	15.9	4	98.4	112	100
2	50	190	3	150	16.3	19.05	4	120.7	146	140
2 1/2	65	216	3	180	17.9	19.05	4	139.7	177	180
3	80	254	3	190	19.5	19.05	4	152.4	205	225
4	100	305	3	230	24.3	19.05	8	190.5	244	225
5	125	356	3	225	24.3	22.2	8	215.9	272	310
6	150	406	3	280	25.9	22.2	8	241.3	433	380
8	200	521	3	345	29	22.2	8	298.5	420	380



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