

## Introduction

Diaphragm Valves proved to be the answer to many process engineers' greatest desire of reliability at an acceptable cost of ownership. Of simple and reliable design, diaphragm valves offer secure operation with full leaktight at the plant. The maintenance, when required, is limited to the replacement of the diaphragm, the bolted bonnet design permits to dismantle the valve without removing the valve body from the pipe work.

The body seatless design eases the internal lining, which opens a broad range to inexpensive options to process engineers when selecting materials resistant to corrosion and abrasion duties. Conventional isolating valves would demand expensive exotic materials to resist the effects of severe corrosion whereas a duly lined iron based material can do the job.

**DIAVAL** portfolio clearly meets the requirements of modern industrial processes and the needs of all engineers. Through constant product development and own polymer research technology, **DIAVAL®** Diaphragm Valves are a reliable alternative to existing costly and expensive to maintain conventional valves.

**DIAVAL INTERNATIONAL** manufacture one of the largest Diaphragm Valves portfolio comprehensive of body linings, diaphragm grades and actuation currently available in the international market. Your **DIAVAL®** Team is available to guide you along a great cost saving experience.



**DIAVAL®** range of superior design and major cost saving benefits, for secure and full leaktight operation under the most severe circumstances.

The **DIAVAL®** range is totally interchangeable with other diaphragm valves in the market thus easing the plant choice.

# **Valve stroke Indicator**; a yellow position indicator gives clear and positive valve position from any angle.

# **Greased for life valve spindle**; spindle chamber incorporates a grease reservoir that lubricates the spindle along operations thus avoiding valve spindle jamming. Sealed bonnet arrangements available for toxic and hazardous fluids.

# **Valve stroke stopper**; the bonnet design prevents over closure of the valve thus avoiding early diaphragm rupture.

# **Ergonomically Design Hand wheel**; great comfort and ease of operation. Other operation options such as actuators, padlocks, interlocking, extended spindle and others are available from **DIAVAL®**.

# **Self draining**; Weir valves are self draining when installed at an angle of 20° above horizontal. ST and Full Flow valves are self cleaning with an unobstructed bore.

# **Diaphragms**; wide range of diaphragm materials to meet the needs of today's industrial processes and standards. Resilient diaphragms provides 100% leak-tight shut off and isolates all bonnet parts from the line fluid.

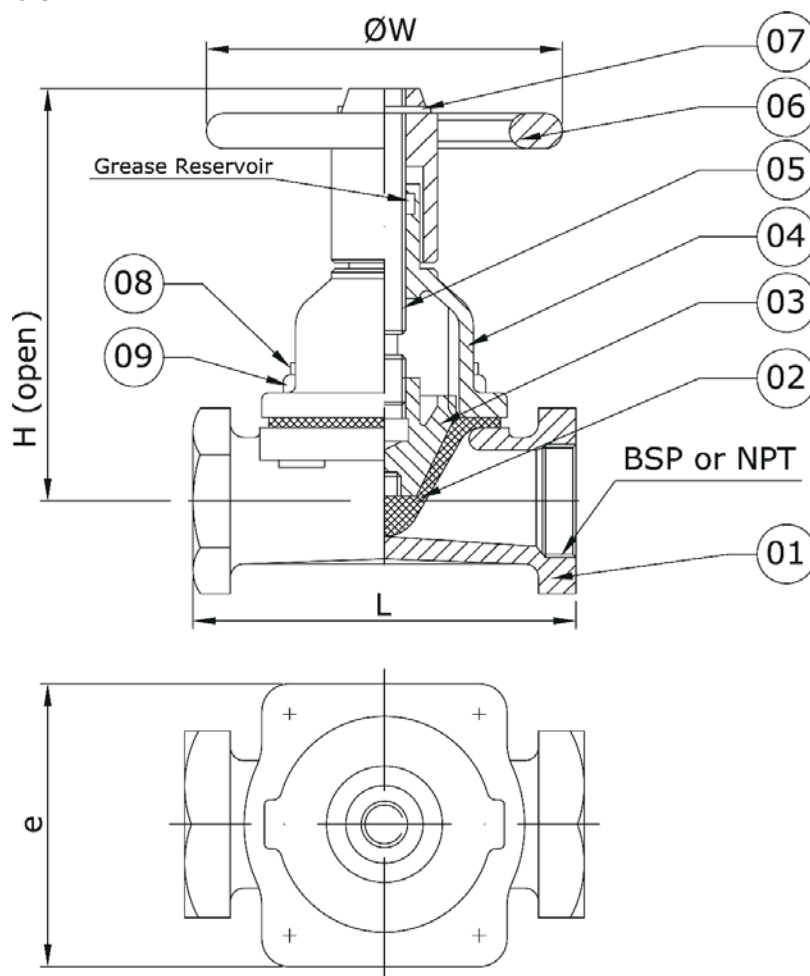
# **Safety**; Optional Sealed bonnet arrangements available for toxic and hazardous fluids, Interlocking arrangement, padlocking and flange sealing coating.

# **Linings**; porous free chemically resistant linings designed to eliminate the need of expensive metals. Wide range of polymers and fluoropolymers available to match all industrial needs. Full face rubber lining removes the need for gaskets unlike spigot face lining.

# **Body end connections**; flanged and screwed ends to meet all European, Imperial and American standards. Other end styles available for the aseptic range.

Unlined threaded valves

Main Parts and Materials



NO.	PART	MATERIAL
1	BODY	SC_ Cast iron EN-JL1040 (GG25)
		SD_ Ductile iron EN-JS1030 (GGG40)
2	DIAPHRAGM	Rubber Natural (D10) / EPDM (D20) / Butyl (D30) / Nitrile (D40) / Neoprene (D50) / Hypalon (D60) / Viton (D70)
3	COMPRESSOR	Cast iron EN-JL1040 (GG25)
4	BONNET	SC_ Cast iron EN-JL1040 (GG25)
		SD_ Ductile iron EN-JS1030 (GGG40)
5	SPINDLE	Steel
6	HANDWHEEL	Cast iron EN-JL1040 (GG25)
7	H/W DOWEL PIN	Steel (EN42)
8	BODY STUDS	Steel
9	BODY NUTS	Steel

Main Valve Parameters

DN	15	20	25	32	40	50	65	80
L	64	83	108	121	140	165	203	254
H (open)	112	117	142	142	140	206	236	284
ØW	100	100	120	120	120	164	220	240
e	71	71	85	85	85	115	135	170
Approx. Weight	1,8	2,2	3	4	4	7,25	12,5	19,5

Dimensions in mm subject to manufacturing tolerance / Weights in kg