

DSBT

DIAPHRAGM SEAL BOTTOM THREADED (SCREWED)



MAIN FEATURES

Forged chambers
Laser welded diaphragm
Optional exotic materials

SUGGESTED APPLICATIONS

Separation systems
Isolation applications
Viscous & corrosive media
High-pressure applications
High vibration application



DIAPHRAGM SEAL BOTTOM THREADED (SCREWED)

BASIC DESCRIPTION

Flange design : ANSI B40.2
Storage temperature : -40...+65°C
Service temperature : 370°C max.
Weld joints : Laser welding for Diaphragm

MATERIAL OF CONSTRUCTION

Sensing element : Diaphragm
Top chamber material: SS 304 / SS 316
Diaphragm : SS 316L / Monel / HC-276 / INC-625 / Titanium / Tantalum
Bottom chamber material : SS 304 / SS 316 / SS 316L / Monel / HC-276 / INC-625 / Titanium
PVC¹ / Polypropylene¹ / PTFE¹
Gaskets : PTFE [ranges ≤ 100 bar] / Metal [ranges ≥ 100 bar]
Capillary : SS 304 / SS 316
Armour : SS 304 / SS 316 / PVC

FILLING LIQUIDS Vs TEMPERATURE RANGE

CODE	Fluid Name	Temperature Range
L2	Silicon Oil	-40°C to 250°C
L3	Food Grade Oil	-20°C to 200°C
L4	Hi-Temp Silicon Oil	-20°C to 450°C
L5	Fluorinated Oil	-10°C to 350°C

PRODUCT SPECIFICATION

Seal type : -1...0...70 bar / -1...0...160 bar
210...400 bar
Instrument connection : ½" NPT (F) / ½" BSP (F)
Sealing fluid : Silicon Oil [-40...250°C]
Process connection : ½" NPT (M) / ½" BSP (M) / ¼" NPT (M) / ½" NPT(F) / M20X1.5P (M) / ½" BSPT (M)

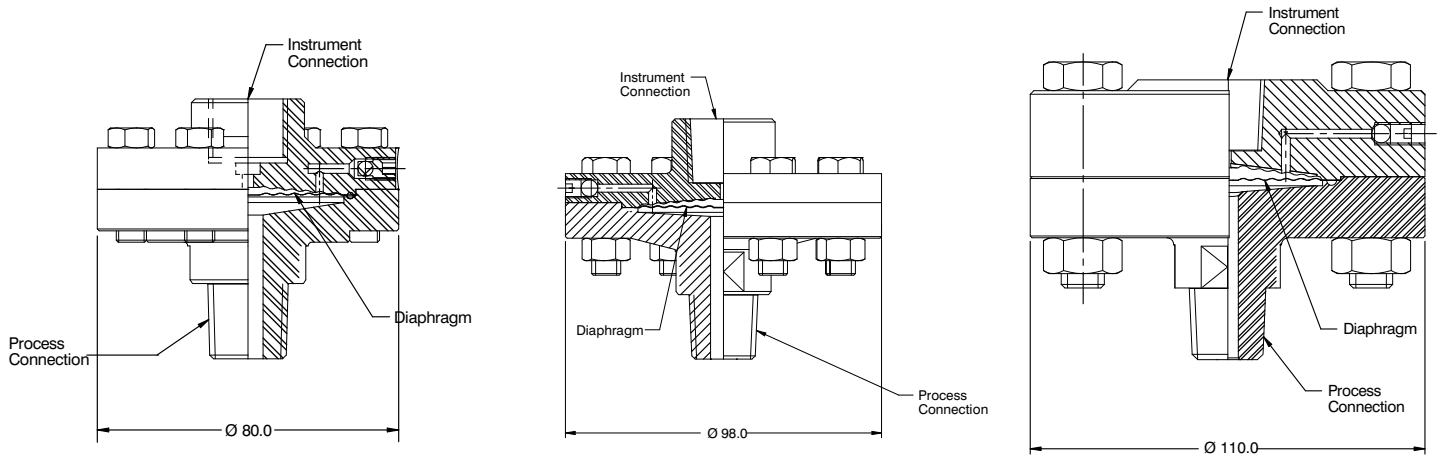
PROTECTION ON WETTED PARTS

Lining on Bottom Chamber [Code : LB]
Material : PTFE - 2 ~ 3mm thick
Service temperature : 150°C max.

Coating on Diaphragm [Code : DC]
Material : PFA - 70 Micron thick [spray coated & oven cured]
Service temperature : 300°C max.

Coating on Bottom chamber & diaphragm [Code : CB]
Material : PFA - 70 Micron thick [spray coated & oven cured]
Service temperature : 300°C max.

DIMENSIONAL DRAWINGS



All dimensions are in mm.

MODEL CODING

MODEL	-	TOP CHAMBER	DIAPHRAGM	BOTTOM CHAMBER	/	INSTRUMENT CONNECTION	PROCESS CONNECTION	/	SEALING LIQUID	/
DSBT = DIAPHRAGM SEAL BOTTOM THREADED (SCREWED)		S04 = SS 304 S16 = SS 316	S6L = SS 316L M40 = Monel 400 H76 = Hastelloy C-276 N62 = Inconel 625 TT6 = Titanium TAT = Tantalum	S16 = SS 316 S6L = SS 316L M40 = Monel 400 H76 = Hastelloy C-276 N62 = Inconel 625 TT6 = Titanium PVC = PVC PPY = Polypropylene PTFE = PTFE		F4N = ½" NPT (F) F4B = ½" BSP (F)	M2N = ¼" NPT (M) M2B = ¼" BSP (M) M4N = ½" NPT (M) MBN = ½" BSP (M) M2M = M12 X 1.0P M4M = M20 X 1.5P M3B = ¾" BSP (M) F40 = 1.5" NPT (M)		L2 = Silicon Oil L3 = Food Grade Oil L4 = Hi-Temp Silicon Oil L5 = Fluorinated Oil	

CAPILLARY	CAPILLARY LENGTH	/	OTHER OPTIONS
C1 = No Capillary C2 = SS 316L bore + SS 304 Armour C3 = SS 316L bore + SS 316 Armour C4 = SS 316L bore + SS 304 Armour + PVC coating	1 Mtr. up to 6 Mtr. Other length on request		FF = Front flange with back mounting (3 Hole CD = Cust om Design Dial Panel) UC = Surface Plate TS4=Tag plate in SS 304 TS6 = Tag plates in SS 316 CB = PTFE coating on bottom chamber & diaphragm

ORDERING EXAMPLE DSBT-S04-S6L-S16-F4N-F40-L2-C1.CB

QUICK ORDER DETAILS / FEEDBACKS

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