

NESS

DIAPHRAGM SEAL

THREADED CONNECTION TYPE

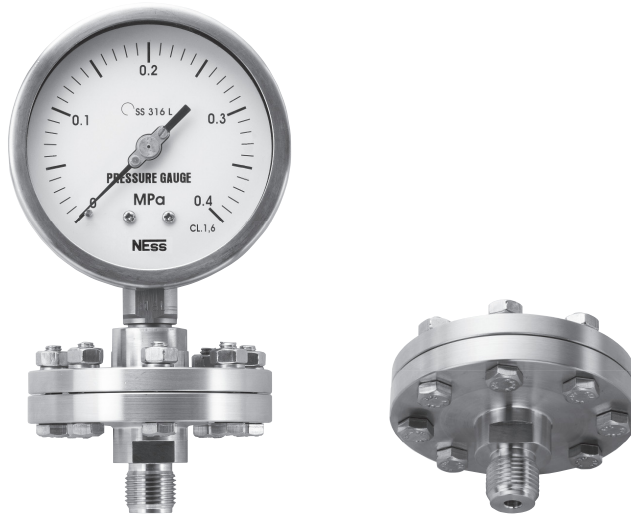
Model - CSB

Special Features :

- Diaphragm directly welded to top chamber
- Two piece construction
- Ideal for general purpose application
- Robust design
- All SS construction

Applications :

Diaphragm Seals are designed to isolate the sensing element of Pressure Gauges and Pressure Switches from process fluids that they may be Corrosive, Viscous and / or with a high temperature.



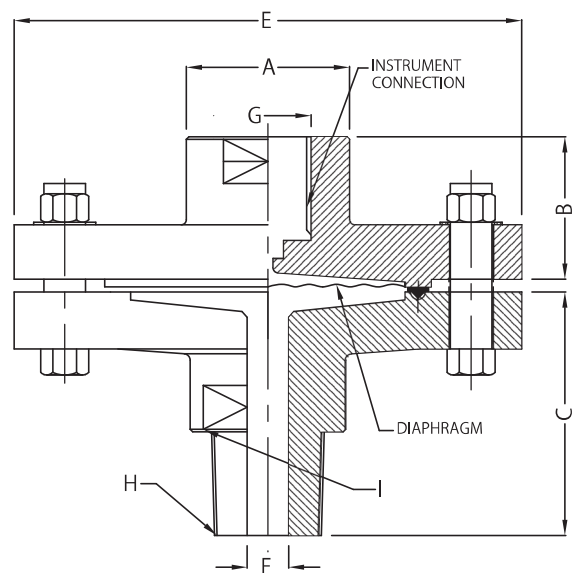
Specifications

STANDARD VERSION

Range	: -1 bar to 70 bar
Process temperature	: -40° C to 200° C or as per Filled fluid
Instrument Connection	: 1/2"G / BSP (F)
Process Connection	: 1/2" NPT(M)
Fill Fluid	: Silicon Oil - DC 200

Diaphragm	: AISI 316L SS
Top Chamber	: AISI 304 SS
Bottom Chamber	: AISI 316 SS
Nuts / Bolts	: AISI 304 SS
Gasket	: PTFE

DRAWING OF "I" SECTION



A	B	C	E	F	G	H	I
30	26	47	98	8	1/2" G(F)	1/2" NPT(M)	25

SELECTION OF MODEL

(1) MODEL CODE

(2) INSTRUMENT CONNECTION

1/4" BSP (F)	2BM
3/8" BSP (F)	3BM
3/8" BSP (F)	4BM

1/4" NPT (F)	2NM
1/2" NPT (F)	4NM

(3) DIAPHRAGM

HASTELLOY 'C'	HT
TANTALUM	TA
INCONEL 600	IN
SILVER	SR

TITANIUM	TI
MONEL	MN
AISI 316L SS	S6L

CSB

4BM

S6L

SELECTION OF MODEL

(4) BOTTOM CHAMBER (I SECTION)

(* Refer Pressure v/s Temperature table below.)

AISI 304 SS	S4
AISI 316 SS (Standard)	S6
AISI 316L SS	S6L
TANTALUM	TA
HASTELLOY 'C'	HT

MONEL	MN
POLYPROPELENE*	PP
PVC*	PC
PVDF*	PD
TITANIUM	TI

(5) PROCESS CONNECTION

1/4" BSP (F)	2BF
3/8" BSP (F)	3BF
1/2" BSP (F)	4BF
3/4" BSP (F)	5BF
1/4" NPT (M)	2NM
1/2" NPT (M)	4NM

3/4" NPT (M)	5NM
1/4" BSP (M)	2BM
3/8" BSP (M)	3BM
1/2" BSP (M)	4BM
3/4" BSP (M)	5BM
M20 x 1.5 (M)	1MM
M33 x 1.5 (M)	3MM

NOTE :- Connections like PT/PF/G/R etc can be provided on request.

(6) PROTECTION ON WETTED PARTS

PTFE PROTECTION FOR DIAPHRAGM (Max up to 150° C)	PF
PTFE COATING ON DIAPHRAGM (Max up to 315° C)	CD

(7) FILLING FLUIDS

FLUROLUBE 4.2 (-45 TO 175 ° C)	01
FLUROLUBE 6.3 (-40 TO 235 ° C)	02
FLUROLUBE FS (-28 TO 148 ° C)	03
FOOD GRADE OIL (-20 TO 140 ° C)	04
SILICON DC 200 (-40 TO 205 ° C) (Standard)	05
SYLTHERM 800 (-40 TO 350 ° C)	06
SYLTHERM XLT (-100 TO 260 ° C)	07
HALOCARBON OIL	08

(8) REMOTE MOUNTING (With capillary of Max. Up to 6 Mtrs.)

SPECIFY IN METERS (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)

(9) CAPILLARY

AISI 304 SS	S4	AISI 316 SS	S6
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(10) CAPILLARY COVERED WITH ARMOUR (Applicable with PE or PG if selected)

AISI 304 SS	S4
AISI 316 SS	S6
PVC (Ambient Temp. Max. 60° C)	PC

HELIUM LEAK TEST	HT
DRY SEAL ONLY WITHOUT INSTRUMENT	SD
HELIUM LEAK TEST	MC

Example	1	2	3	4	5	6
Order Detail	CSB	4BM	S6	S6L	PE	S6
7	8	9	10	11	12	13
4NM	PF	O5	xx	S4	S4	Option xx

S6

4NM

PF

O5

XX

S4

S4

XX

PRESSURE V/s TEMPERATURE

MOC OF BOTTOM CHAMBER	PRESSURE V/s TEMPERATURE					
	20° C	40° C	60° C	80° C	100° C	120° C
PVDF	10 kg/cm ²	10 kg/cm ²	10 kg/cm ²	7 kg/cm ²	4 kg/cm ²	2 kg/cm ²
PP	10 kg/cm ²	10 kg/cm ²	6 kg/cm ²	4 kg/cm ²	1 kg/cm ²	N/A
PVC	10 kg/cm ²	10 kg/cm ²	4 kg/cm ²	1 kg/cm ²	N/A	N/A

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We reserve the rights to change models and specifications without prior notice.