

# DIAPHRAGM SEAL

DIRECT FLANGED FLUSHED TYPE



## SPECIAL FEATURES

- WELDED DIAPHRAGM
- FLUSH DIAPHRAGM PROVIDED
- EASY FLUSHING
- MOST SUITABLE FOR SLURRY & CORROSIVE SERVICE

## APPLICATIONS

DIAPHRAGM SEALS ARE PROVIDED IN THE INSTRUMENTS LIKE PRESSURE GAUGES, SWITCHES, TRANSMITTERS IN ORDER TO ISOLATE THE SENSING ELEMENT FROM THE MAIN SERVICE DUE TO ITS CORROSIVE, VISCOUS AND SEDIMENTED NATURE AND TO AVOID CLOGGING AND SOLIDIFICATION. THESE KIND OF SEALS ARE WIDELY USED IN THE VISCOUS & CORROSIVE SERVICES WHERE FLUSHING IS REQUIRED PERIODICALLY & FREQUENTLY.

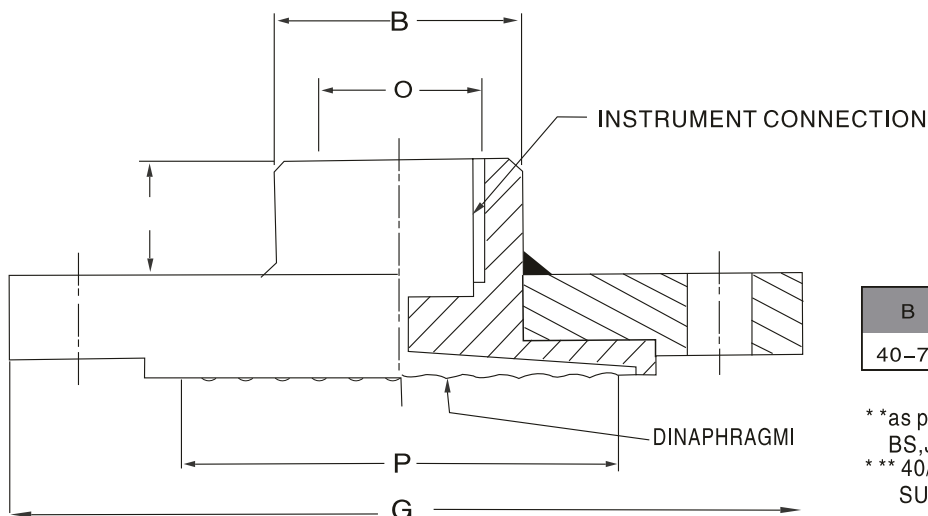


## SPECIAL FEATURES

### STANDARD VERSUIB:(FOR FLANGE SIZE 1/2"~2" AND ABOVE)

Range	: -1kg/cm <sup>2</sup> to 21kg/cm <sup>2</sup>
Process Temperature	: -40°C to 200°C or as per fill fluid
Instrument Connection	: 3/8" BSP (F)
Process Connection	: Flange (as per DIN/BS/ANSI/JIS)
	: Finish 125-250AARN
	: 32NB(1 1/4") to 80NB(3") (as required)

Diaphragm	: AISI 316L SS
Seal Chamber	: AISI 316 SS
Fill Fluid	: Silicon Oil -DC200



B	G	N		
40-70	**	20	3/8" BSP(F)	***

\*\* as per standard flange table ANSI, DIN, BS, JIS ETC.,  
 \*\*\* 40/53/63/70mm DIA. DIAPHRAGM TO SUIT FLANGE

Notes: • Drawings are not to scale. • All Dimensions are in mm.

**HOW TO ORDER**

**BASIC MODEL**

BBW

**OPTIONS**

FOR NON STANDARD PRODUCTS/OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.

**FLANGE**

**M1** AISI 316L SS

M1

**INSTRUMENT CONNECTION**

**Q1** 1/2"BST(F)                      **Q4** 1/2"NPT(F)  
**Q2** 1/4"BSP(F)                      **Q3** 1/4"NPT(F)  
**Q5** 3/8"NPT(F)                      **Q6** 3/8"BSP(F)

Q1

**PROCESS CONNECTION**

AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE)

B33

**FLUSHING RING**

**S1** FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS)      **S2** FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS)  
**S3** FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS)      **S4** FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS)Std.

S1

**FILLNG FLUIDS**

**T1** FLUROLUBE 4.2[-45 TO 175°C/-49 TO374 ° F]                      **T2** SILICON DC 704 [0 TO 315°C/-32 TO599 ° F]  
**T3** FLUROLUBE 6.3[-40 TO 235°C/-40 TO455 ° F]                      **T4** SILICON DC 710 [5TO 345°C/-41 TO653 ° F]  
**T5** FLUROLUBE FS5[-40 TO 150°C/-40 TO302 ° F]                      **T6** SYLTHERM 800 [-45 TO205°C/-49 TO401° F]  
**T7** FOOD GRADE OIL[-20 TO 140°C/-4 TO284 ° F]                      **T8** SYLTHERM XLT [-75 TO150°C/-102TO302° F]  
**T9** SILICON DC200-10CS[-40 TO 205°C/-40 TO401 ° F]                      **T10** HALOCARBON OIL

T1

**PROTECTION ON WETTED PARTS**

**U2** PTFE PROTECTION FOR DIAPHRAGM

U2

**DIAPHRAGM**

**AD1** AISI 304 SS                      **AD2** CARBIB STEEK                      **AD3** TITAIUIN                      **AD4** AISI 316 SS  
**AD5** AISI 316L SS                      **AD6** MONEL                      **AD7** HASTELLOY C

AD1

**TYPE**

**G1** WITHOUT CAPILLARY                      **G2** WITH CAPILLARY

G1

**CAPILLARY**

**H1** AISI 304 SS                      **H2** AISI 316 SS

H1

**CAPILLARY COVERED WITH ARMOUR**

**I1** AISI 304 SS                      **I2** AISI 316 SS

I1

**CAPILLARY LENGTH(Max up to 2Mtrs.)**

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

1Mtr.

**OTHER OPTIONS**

**K3** HELIUM LEAK TEST                      **K4** DRY SEAL ONLY WITHOUT INSTRUMEN

K3

**Ordering Example:**

**BBW-M1-Q1-B33-S1-T1-U2-AD1-G1-H1-I1-1Mtr.-K3**

**Note:** ● Due to continuous improvement,the specification may vary from time to time.