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 PRESSURS 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

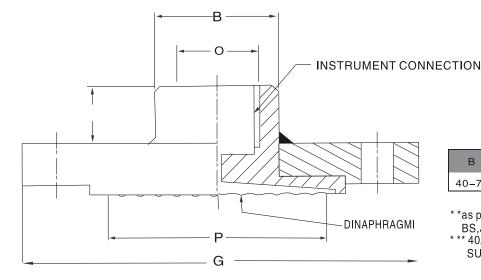
STANDARD VERSUIB: (FOR FLANGE SIZE 1/2"~2" AND ABOVE)

| Range | : | -1kg/cm² to21kg/cm² |
|-----------------------|---|------------------------------------|
| Process Temperature | : | –40℃ to200℃ oras per fill fluid |
| Instrument Connection | : | 3/8" BSP (F) |
| Process Connection | : | Flange(as per DIN/BS/ANSI/JIS) |
| | : | Finish 125-250AARN |
| | : | 32NB(11/4)to 80NB(3")(as required) |

Diaphragm : AISI 316L SS

Seal Chamber : AISI 316 SS

Fill Fluid : Silicon Oil -DC200



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

* *as per sthndard flang table ANSI,DINM, 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

| OPTIONS FOR NON STANDARD PRODUCTS/OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER. FLANGE M1 AISI 316L SS 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) PROCESS CONNECTION AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING FIUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILLING FLUIDS T1 FLUROLUBE 4.2[-45 TO 175°C/-49 TO374° F] T3 FLUROLUBE 6.3[-40 TO 235°C/-40 TO455° F] T4 SILICON DC 704 [0 TO 315°C/-32 TO599° F] T3 FLUROLUBE FSS[-40 TO 150°C/-40 TO302° F] T6 SYLTHERM 800 [-45 TO205°C/-49 TO401° F] T6 SYLTHERM 800 [-45 TO205°C/-49 TO401° F] T8 SYLTHERM XLT [-75 TO150°C/-102TO302° F] T9 SILICON DC200-10CS[-40 TO 205°C/-40 TO401° F] T10 HALOCARBON OIL | — M1 — Q1 — B33 — S1 |
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| ### FLANGE ### AISI 316L SS ### INSTRUMENT CONNECTION ### Q2 1/4"BSP(F) | — Q1 — B33 — S1 |
| M1 AISI 316L SS MNSTRUMENT CONNECTION Q1 1/2"BST(F) | — Q1 — B33 — S1 |
| 1/2"BST(F) | — Q1 — B33 — S1 |
| 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) PROCESS CONNECTION AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING S1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILLING FLUIDS T1 FLUROLUBE 4.2[-45 TO 175°C/-49 TO374 ° F] T3 FLUROLUBE 6.3[-40 TO 235°C/-40 TO455 ° F] T4 SILICON DC 704 [0 TO 315°C/-32 TO599 ° 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 DC 200-10CS[-40 TO 205°C/-40 TO401 ° F] T10 HALOCARBON OIL | — B33 — S1 |
| 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) PROCESS CONNECTION AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING S1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILLING FLUIDS T1 FLUROLUBE 4.2[-45 TO 175°C/-49 TO374 ° F] T3 FLUROLUBE 6.3[-40 TO 235°C/-40 TO455 ° F] T4 SILICON DC 704 [0 TO 315°C/-32 TO599 ° 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 DC 200-10CS[-40 TO 205°C/-40 TO401 ° F] T10 HALOCARBON OIL | — B33 — S1 |
| Q2 1/4"BSP(F) Q3 1/4"NPT(F) Q6 3/8"BSP(F) PROCESS CONNECTION AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING S1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) FILUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S5 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S6 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S7 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S8 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S9 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S1 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) | — S1 |
| Q6 3/8"BSP(F) PROCESS CONNECTION AS PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING S1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) S3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) S4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S5 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILSHING RING WITH1/4"NPT PLUG (AISI 316 SS) S6 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) FILSHING RING WITH1/4"NPT PLUG (AISI 316 SS) | — S1 |
| S PER DIN/BS /ANSI/JIS (SELECT CODE FROM TABLE) FIUSHING RING | — S1 |
| FILLNG FLUIDS T1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) FILLNG FLUIDS T2 SILICON DC 704 [0 TO 315°C/-32 TO599 ° F] T3 FLUROLUBE 4.2[-45 TO 175°C/-40 TO302 ° F] T4 SILICON DC 710 [5TO 345°C/-41 TO653 ° F] T5 FLUROLUBE FSS[-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 DC 200-10CS[-40 TO 205°C/-40 TO401 ° F] T10 HALOCARBON OIL | — S1 |
| \$1 FLUSHING RING WITH1/2"NPT PLUG (AISI 304 SS) \$2 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) \$3 FLUSHING RING WITH1/2"NPT PLUG (AISI 316 SS) \$4 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) \$5 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) \$5 FLUSHING RING WITH1/4"NPT PLUG (AISI 316 SS) \$6 FLUSHING RING WITH1/4"NPT P | |
| FILLNG FLUIDS T1 FLUROLUBE 4.2[-45 TO 175°C/-49 TO374 ° F] T3 FLUROLUBE 6.3[-40 TO 235°C/-40 TO302 ° F] T6 FOOD GRADE OIL[-20 TO 140°C/-40 TO304 ° F] T7 FOOD GRADE OIL[-20 TO 140°C/-40 TO401 ° F] T8 SILICON DC 704 [0 TO 315°C/-32 TO599 ° F] T9 SILICON DC 710 [5TO 345°C/-41 TO653 ° F] T6 SYLTHERM 800 [-45 TO205°C/-49 TO401 ° F] T7 FOOD GRADE OIL[-20 TO 140°C/-40 TO401 ° F] T8 SYLTHERM XLT [-75 TO150°C/-102TO302 ° F] T9 SILICON DC 200-10CS[-40 TO 205°C/-40 TO401 ° F] T10 HALOCARBON OIL | Т4 |
| FILLNG FLUIDS T1 FLUROLUBE 4.2[-45 TO 175℃/-49 TO374 ° F] T2 SILICON DC 704 [0 TO 315℃/-32 TO599 ° F] T3 FLUROLUBE 6.3[-40 TO 235℃/-40 TO455 ° F] T4 SILICON DC 710 [5TO 345℃/-41 TO653 ° F] T5 FLUROLUBE FSS[-40 TO 150℃/-40 TO302 ° F] T6 SYLTHERM 800 [-45 TO205℃/-49 TO401 ° F] T7 FOOD GRADE OIL[-20 TO 140℃/-4 TO284 ° F] T8 SYLTHERM XLT [-75 TO150℃/-102TO302 ° F] T9 SILICON DC200-10CS[-40 TO 205℃/-40 TO401 ° F] T10 HALOCARBON OIL | T1 |
| T1 FLUROLUBE 4.2[-45 TO 175℃/-49 TO374 ° F] T2 SILICON DC 704 [0 TO 315℃/-32 TO599 ° F] T3 FLUROLUBE 6.3[-40 TO 235℃/-40 TO455 ° F] T4 SILICON DC 710 [5TO 345℃/-41 TO653 ° F] T5 FLUROLUBE FS5[-40 TO 150℃/-40 TO302 ° F] T6 SYLTHERM 800 [-45 TO205℃/-49 TO401 ° F] T7 FOOD GRADE OIL[-20 TO 140℃/-4 TO284 ° F] T8 SYLTHERM XLT [-75 TO150℃/-102TO302 ° F] T9 SILICON DC200-10CS[-40 TO 205℃/-40 TO401 ° F] T10 HALOCARBON OIL | Т1 |
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| 75 FLUROLUBE FS5[-40 TO 150℃/-40 TO302 ° F] T6 SYLTHERM 800 [-45 TO205℃/-49 TO401 ° F] 77 FOOD GRADE OIL[-20 TO 140℃/-4 TO284 ° F] T8 SYLTHERM XLT [-75 TO150℃/-102TO302 ° F] 79 SILICON DC200-10CS[-40 TO 205℃/-40 TO401 ° F] T10 HALOCARBON OIL | |
| 77 FOOD GRADE OIL[-20 TO 140°C/-4 TO284 ° F] 78 SYLTHERM XLT [-75 TO150°C/-102TO302° F] 79 SILICON DC200−10CS[-40 TO 205°C/-40 TO401 ° F] 70 HALOCARBON OIL | |
| T9 SILICON DC200-10CS[-40 TO 205℃/-40 TO401 ° F] T10 HALOCARBON OIL | |
| | |
| | |
| PROTECTION ON WETTED PARTS | — U2 |
| U2 PTFE PROTECTION FOR DIAPHRAGM | |
| DIAPHRAGM | — AD |
| AD1 AISI 304 SS AD2 CARBIB STEEK AD3 TITAUIUN AD4 AISI 316 SS | , |
| AD5 AISI316LSS AD6 MONEL AD7 HASTELLOYC | |
| TYPE | 04 |
| G1 WITHOUT CAPILLARY G2 WITH CAPILLARY | — G1 |
| | |
| CAPILLARY | — Н1 |
| I1 AISI 304 SS H2 AISI 316 SS | |
| CAPILLARY COVERED WITH ARMOUR | |
| 1 AISI 304 SS | — I1 |
| 12 AISTOUT GS | |
| CAPILLARY LENGTH(Max up to 2Mtrs.) | |
| IN METERS (e.g. 1.5)=1.5METERS 2.0=2METERS) | 1Mt |
| | |
| OTHER OPTIONS | — кз |
| (3 HELIUM LEAK TEST K4 DRY SEAL ONLY WITHOUT INSTRUMEN | No |
| | |
| O. d | |
| Ordering Example: | |
| BBW-M1-Q1-B33-S1-T1-U2-AD1-G1-H1-I1-1MtrK3 | |

