



- Robust two piece design
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium
- All SS construction

Application

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature.

Specifications

Standard Version

(Compatible models : AC, AE, AH, AI, AL, AQ, BA, BE, BI, BJ, BQ & BT)

Seal type & Range : S06 = -1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard)

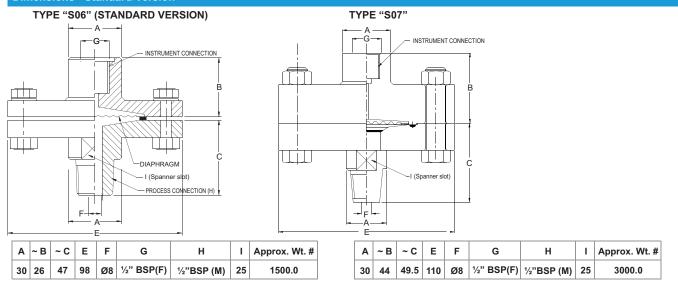
 $S07 = 100 \text{ kg/cm}^2 \text{ to } 400 \text{ kg/cm}^2$

Process temperature : - 40 °C to 200 °C or as per fill fluid

Instrument connection : ½" BSP (F)
Process connection : ½" BSP (M)
Fill fluid : Silicon Oil - DC 200
Mounting : Direct (without capillary)

Diaphragm : AISI 316L SS
Top chamber : AISI 304 SS
Bottom chamber : AISI 316 SS
Nuts / bolts : AISI 304 SS
Sealing gasket : PTFE

Dimensions - Standard Version



(# Weight in grams with box for Standard Model.)

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

(# Weight in grams with box for Standard Model.)





| ic Model e | | |
|--|---|------------|
| • | | |
| <u></u> | | |
| onal Extras | | |
| recommended that the MOC of Diaphragm should be equivalent of | or superior than the MOC of Bottom chamber.] | |
|) | | |
| -1 to 0 kg/cm ² & 0 to 70 kg/cm ² (Standard) S07 100 | 0 kg/cm² to 400 kg/cm² | Х |
| rument Connection (Select this option who | en dry seal is required) | |
| 1/4" BSP(F) VP 3/8" BSP (F) VL ½" BSP (F)(\$ | Standard) VM ½" NPT (F) VO 1/4" NPT (F) | · > |
| Chamber | | |
| AISI 304 SS (Standard) YA AISI 316L SS | XY AISI 316 SS | > |
| ohragm (* Range up to 21 kg/cm²) | | |
| AISI 316L SS (Standard) MONEL UL Hastelloy 'C' UP Silver* | UR Titanium UW Inconel 600 UQ Tantalum | > |
| ing Gasket | | |
| PTFE (Standard) YR Metal | | > |
| om Chamber (* Refer Pressure v/s Temperature table belo | ow.) | |
| AISI 304 SS TT Hastelloy 'C' | MOC OF PRESSURE V/S TEMPERATURE | |
| AISI 316 SS (Standard) UD Tantalum | BOTTOM CHAMBER 20 °C 40 °C 60 °C 80 °C 100 °C 120 °C | > |
| AISI 316L SS TZ PVC* TITANIUM UA PVDF* | 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 | |
| TITANIUM UA PVDF* MONEL TY Polypropelene* | PP 10 kg/cm² 10 kg/cm² 6 kg/cm² 4 kg/cm² 1 kg/cm² NA | |
| cess Connection | PVC 10 kg/cm² 10 kg/cm² 4 kg/cm² 1 kg/cm² NA NA | - |
| 3/8" BSP(F) WH ½" NPT (F) WA ½" NPT (M) ½" BSP(F) WL 3/4" NPT (F) WK 3/4" NPT (N 3/4" BSP(F) | M) WU ½" BSP(M) (Standard) WF 3/4" BSP(M) | |
| : Connections like Metric, PT/ PF/ Flaired / UNF/ G/ R etc | <u> </u> | _ |
| ection On Wetted Parts (* With bore diameter 10 mm minim | • , | _ |
| PTFE Lining On Bottom Chamber - 2 mm THICK (Max. Up PTFE Protection For Diaphragm (Max. Up to 150 °C) (Suita | , | , |
| PTFE Coating On Diaphragm (Max. Up to 315 °C) | able for Pressure Ranges only) | > |
| ng Fluids (* Consult factory for specifications, price and | d delivery \ | _ |
| | Silicon DC 704 [10 to 337 °C] | |
| | Silicon DC 710 [7 to 371 °C] | |
| Flurolube FS-5 [-28 to 148 °C] VA | Syltherm 800 [-40 to 315 °C] | > |
| | Syltherm XLT [-100 to 260 °C] | |
| 1 , | Halocarbon Oil* | _ |
| note Mounting (With capillary of Max. Up to 6 Mtrs.) | | |
| cify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) | | 31 |
| illary | | |
| AISI 304 SS PG AISI 316 SS | | > |
| illary Covered With Armour (Applicable with PE or PG if sele | ected) | |
| AISI 304 SS PH AISI 316 SS PI PVO | C (Ambient Temp. Max. 60°C) | > |
| er Options | | |
| Helium Leak Test TC Dry Seal Only Without I Conformity as per NACE Standard | nstrument GH Material Test Certificates* | > |
| terial test certificates will be provided for wetted parts only w | rith chemical composition testing. For others, please consult factory | ′ . |
| | <u> </u> | |

For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.





- All stainless steel construction
- Compact design
- Low cost version
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium

Application

 Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature

Specifications

Standard Version

(Compatible models: AD & AT (NS 50mm & 63mm)

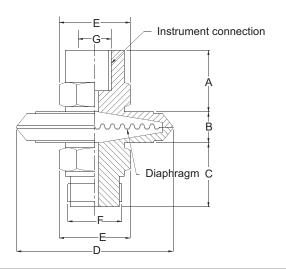
Range : 1 kg/cm² to 21 kg/cm²

Process temperature : - 40 °C to 200 °C or as per fill fluid Instrument connection : 1/4" BSP (F)

Process connection : 1/4" BSP (M)
Fill fluid : Silicon Oil - DC 200

Diaphragm : AISI 316L SS
Body : AISI 316 SS

Dimensions - Standard Version



| Α | В | С | D | E | F | G | Approx. Wt.# |
|----|----|----|----|------------|-------------|-------------|--------------|
| 26 | 14 | 23 | 62 | HEX A/F 19 | 1/4" BSP(M) | 1/4" BSP(F) | 260.0 |

(# Weight in grams with box for Standard Model.)

Fondon global

Diaphragm Seal Direct Coupled Type (Compact Design)

| How to Order | | Example |
|--|--|---------|
| Basic Model | | |
| Code | | |
| Optional Extras | | |
| Instrument Connection | | |
| VN 1/4" BSP (F) (Standard) VO 1/4" NPT(F) | | XX |
| Body | | , , , |
| CL AISI 316 SS (Standard) | | XX |
| Diaphragm | | _ |
| UJ AISI 316L SS (Standard) | | XX |
| Process Connection | | |
| WS 1/4" BSP (M) (Standard) WY 1/4" NPT (M) | | XX |
| FILLING FLUIDS (*Consult factory for specifica | tions, price and delivery.) | |
| US Flurolube 4.2 [-45 to 175 °C] | UY Silicon DC 704 [10 to 337 °C] | |
| UT Flurolube 6.3 [-40 to 235 °C] | UZ Silicon DC 710 [7 to 371 °C] | |
| UU Flurolube F S-5 [-28 to 148 °C] | VA Syltherm 800 [-40 to 315 °C] | XX |
| UV Food Grade OIL [-20 to 140 0C] | VB Syltherm XLT [-100 to 260 °C] | |
| UX Silicon DC 200 [-40 to 205 °C] (Standard) | VC Halocarbon OIL* | |
| Other Options | | |
| TB Helium leak test TC Dry seal on | ly without instrument GH Material test certificates* | XX |
| * Material Test Certificates Will Be Provided For W Please Consult Factory. | etted Parts Only With Chemical Composition Testing. For Others, | |
| For Other Optional Items, Please Contact Facto | ory For Delivery And Minimum Quantity Of Order. | |
| | product catalogue represents the state of engineering at the time of printing. specified may be replaced by others without prior notice. | |







- All 316 stainless steel
- Laser welded flush diaphragm
- Quick connect / disconnect for easy cleaning
- Matching DIN, SMS, RJT etc. standards

Application

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 seals are specially designed for applications where high purity in the process is essential.- typically in food, beverages, dairy and pharmaceutical industries

Specifications

Standard Version

(Compatible models: AD (NS 50 mm & 63 mm), AL (NS 100 mm & 150 mm), AI, BE, BI & BJ

Range : Refer range table with nominal sizes
Process temperature : 10°C to 150°C or as per fill fluid

Instrument connection : ½" BSP (F)

Process connection : As per DIN 11851, SMS, RJT, IDF

Mounting : Direct (without capillary)

 Diaphragm
 : AISI 316L SS

 Unit nut
 : AISI 316 SS

 Body
 : AISI 316 SS

 Fill fluid
 : Glycerin

Dimensions - Standard Version

DIN 11851

| DN | М | F(DIN 405) |
|-----|----|-------------|
| 25* | 20 | Rd 52 x 1/6 |
| 32 | 30 | Rd 58 x 1/6 |
| 40 | 30 | Rd 65 x 1/6 |
| 50 | 40 | Rd 78 x 1/6 |

* Connection 1/4" BSP (F)

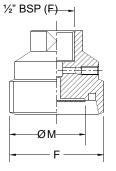
| | SMS | | | | |
|------|-----------------|-------------|--|--|--|
| DN | DN M F(DIN 405) | | | | |
| 1 ½" | 30 | Rd 60 x 1/6 | | | |
| 2" | 40 Rd 70 x 1/6 | | | | |

RJT/APV

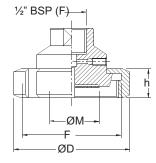
| DN | M | F (Whitworth) |
|--------|----|---------------|
| 1 1/2" | 30 | 2" 5/16 x 8 |
| 2" | 40 | 2" 7/8 x 6 |

| | IDF/ISS | | | | | | |
|--------|---------|------------|--|--|--|--|--|
| DN | M | F(ACME) | | | | | |
| 1 1/2" | 29 | 2"1/32 x 8 | | | | | |
| 2" | 36 | 2"9/16 x 8 | | | | | |

With Male threaded



With Female threaded union nut



DIN 11851

| DN | h | D | М | F(DIN 405) |
|-----|----|----|----|-------------|
| 25* | 21 | 63 | 30 | Rd 52 x 1/6 |
| 32 | 21 | 70 | 30 | Rd 58 x 1/6 |
| 40 | 21 | 78 | 40 | Rd 65 x 1/6 |
| 50 | 22 | 92 | 50 | Rd 78 x 1/6 |

* Connection 1/4" BSP (F)

SMS

| DN | h | D | M | F(DIN 405) |
|-------|----|----|----|-------------|
| 11/2" | 25 | 74 | 30 | Rd 60 x 1/6 |
| 2" | 26 | 84 | 40 | Rd 70 x 1/6 |

RJT/APV

| DN | | D | | F (Withworth) |
|----|----|---------|----|---------------|
| | | | | 2" 5/16 x 8 |
| 2" | 22 | Hex. 79 | 40 | 2" 7/8 x 6 |

IDF/ISS

| - | 101 /100 | | | | | |
|---|----------|----|----|----|-------------|--|
| | DN | h | D | M | F(ACME) | |
| | 1 ½" | 30 | 64 | 30 | 2" 1/32 x 8 | |
| | 2" | 30 | 77 | 40 | 2" 9/16 x 8 | |

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

Diaphragm Seal Flush Diaphragm, Sanitary Type



Range Table With Nominal Sizes

| Nominal Size of Gauge | 50 & 63 mm | 50 & 63 mm | 50, 63, 100 & 150 mm | 50, 63, 100 & 150 mm | |
|-----------------------|---------------|-------------------------|-------------------------|----------------------|--|
| Connection Standard | DIN/ IDF/ ISS | DIN/ IDF/ ISS/ SMS/ RJT | DIN/ IDF/ ISS/ SMS/ RJT | DIN | |
| Connection Size | 25 mm (1") | 32 mm (1.5") | 40 mm (2") | 50 mm | |
| Ranges (bar) | | | | | |
| 1.6 | / | 1 | 1 | ✓ | |
| 2 | / | ✓ | 1 | ✓ | |
| 4 | 1 | ✓ | ✓ | ✓ | |
| 7 | 1 | 1 | ✓ | ✓ | |
| 10 | / | ✓ | 1 | ✓ | |
| 14 | / | 1 | 1 | ✓ | |
| 16 | / | √ | 1 | ✓ | |
| 21 | / | √ | 1 | ✓ | |
| 25 | x | х | 1 | ✓ | |
| 28 | x | x | ✓ | ✓ | |
| 40 | x | x | ✓ | ✓ | |
| -1 to 4 | x | √ | 1 | ✓ | |
| -1 to 7 | x | ✓ | 1 | ✓ | |
| -1 to 10 | x | ✓ | 1 | ✓ | |
| -1 to 14 | x | ✓ | 1 | / | |
| -1 to 21 | x | / | ✓ | ✓ | |

Design and specifications subject to change without notice

Diaphragm Seal Flush Diaphragm, Sanitary Type



| Basic Model | |
|--|------------------|
| Code | |
| Optional Extras | |
| Process Connection Type | |
| M With Male Threaded Connection F With Female Threaded Union Nut | X |
| Process Connection Standard & Size | |
| KH DIN (25, 32, 40 OR 50 mm) KJ RJT/APV (1½" OR 2") KI SMS (1½" OR 2") KK IDF / ISS (1½" OR 2") | XX XXX (1 1 |
| (Example - Write KH DIN 25) | |
| Instrument Connection | |
| VN 1/4" BSP (F) (Standard for DIN 25 & NS 50 & 63 mm) VO 1/4" NPT (F) VL ½" BSP (F)(Standard) VM ½" NPT (F) | XX |
| Diaphragm | |
| UJ AISI 316L SS (Standard) | XX |
| Filling Fluids | |
| UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UG Liquid Paraffin [10 to 200 °C / 50 to 392 °F] UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] | XX |
| Body | |
| CL AISI 316 SS (Standard) CM AISI 316L SS | XX |
| Options | |
| Gasket (sealing Ring) | |
| FA DIN (25, 32, 40 OR 50 mm) FC RJT/APV (1½" OR 2") FB SMS (1½" OR 2") FD IDF / ISS (1½" OR 2") | XX |
| Gasket (sealing Ring) Material | |
| VU SILICON (Standard) VI PTFE | XX |
| Bottom Mating Part (male Or Female) | |
| KLM DIN (25, 32, 40 OR 50mm) KNM RJT / APV (1½" OR 2") KLF DIN (25, 32, 40 OR 50mm) KMM SMS (1½" OR 2") KMF SMS (1½" OR 2") KNF RJT / APV (1½" OR 2") KMF SMS (1½" OR 2") KOF IDF / ISS (1½" OR 2") (Example - To select male part, write KLM DIN 25 & to select female part, write KMF SMS 1½") | XXX XXX (1½") |
| Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) | |
| Specify In Meters (e.g. 1.5 = 1.5 Meters 2.0 = 2 Meters) | 1Mtr. |
| Capillary | |
| PE AISI 304 SS PG AISI 316 SS | XX |
| Capillary Covered With Armour (applicable With Pe Or Pg If Selected) | |
| PF AISI 304 SS PH AISI 316 Ss PI PVC (ambient Temp. Max. 60°c) | XX |
| Other Options | |
| TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* | XX |
| * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | |
| For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order. | |

ote: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printin Modifications may take place and materials specified may be replaced by others without prior notice.





- Ideal for pressure transmitter
- Laser welded diaphragm
- One piece AISI 316 SS construction
- Flush diaphragm

Application

 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

Specifications

Standard Version

(Compatible models : AD (NS 63 mm) & AL (NS 100 mm)

Note: Pressure Gauge will be provided maximum to NS 100 mm with internal system of NS 63 mm.

Range : Refer below table

Process temperature : -40°C to 200°C or as per fill fluid

Instrument connection : 1/4" BSP (F)
Process connection : 3/4" BSP (M)

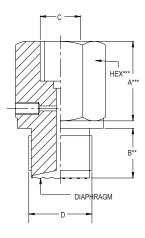
Mounting : Direct (without capillary)

Diaphragm : AISI 316L SS
Body : AISI 316 SS
Fill fluid : Silicon Oil - DC 200

Process Connection & Range Selection Table

| Thread Size | ½" BSP (M) | 3/4" BSP (M) | 1" BSP (M) | 11/2" BSP (M) | 2" BSP (M) |
|--------------|--------------|--------------|------------|---------------|------------|
| Code | WU | WF | WW | WX | WB |
| Thread Size | 1/2" NPT (M) | 3/4" NPT (M) | 1" NPT (M) | 1½" NPT (M) | 2" NPT (M) |
| Code | WA | XB | XC | XD | XE |
| Ranges (bar) | | | | | |
| 4 | x | х | Х | х | ✓ |
| 6 | х | х | Х | 1 | ✓ |
| 10 | х | х | Х | 1 | ✓ |
| 16 | х | х | ✓ | 1 | ✓ |
| 25 | х | ✓ | ✓ | 1 | ✓ |
| 40 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 160 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 200 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 250 | ✓ | / | ✓ | / | / |
| 400 | ✓ | / | ✓ | / | / |
| 600 | / | 1 | ✓ | 1 | ✓ |

Dimensions - Standard Version



| A*** | B** | С | D* | HEX*** | Approx. Wt.# |
|------|-----|-------------|-------------|--------|--------------|
| 18 | 20 | 1/4" BSP(F) | 3/4" BSP(M) | 32 | 500.0 |

(# Weight in grams with box for Standard Model.)

Notes:

- Drawings are not to scale.
- All Dimensions are in mm.

| Basic Mode | To Order | | Exampl |
|--|--|--|--------|
| Dotional Extras Body CL AISI 316 SS (Standard) CM AISI 316L SS | Model | | |
| CL | | | |
| CL AISI 316 SS (Standard) CM AISI 316L SS Diaphragm UJ AISI 316L SS (Standard) VN 1/4" BSP (F) (Standard) VP 3/8" BSP (F) VL ½" BSP (F) V0 1/4" NPT (F) VM ½" NPT (F) Process Connection WU ½" BSP (M) WW 1" BSP (M) WX 1½" BSP (M) WF 3/4" BSP (M) (Standard) WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UV Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade OIL [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) | nal Extras | | |
| Diaphragm UJ AlSI 316L SS (Standard) Instrument Connection VN 1/4" BSP (F) (Standard) VP 3/8" BSP (F) VL ½" BSP (F) VO 1/4" NPT (F) VM ½" NPT (F) Process Connection WU ½" BSP (M) WW 1" BSP (M) WX 1½" BSP (M) WB 2" BSP (M) WF 3/4" BSP (M) (Standard) WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UZ Silicon DC 710 [7 to 371 °C] UZ Silicon DC 710 [7 to 371 °C] UV Food Grade OIL [-20 to 140 °C] UX Syltherm 800 [-40 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) | | | |
| Name | AISI 316 SS (Standard) CM AISI 316L SS | | XX |
| Instrument Connection | ragm | | |
| VN 1/4" BSP (F) (Standard) VP 3/8" BSP (F) VL ½" BSP (F) VO 1/4" NPT (F) VM ½" NPT (F) Process Connection WU ½" BSP (M) WW 1" BSP (M) WX 1½" BSP (M) WB 2" BSP (M) WF 3/4" BSP (M) (Standard) WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UZ Silicon DC 710 [7 to 371 °C] UJ Flurolube FS-5 [-28 to 148 °C] UA Syltherm 800 [-40 to 315 °C] UV Food Grade OIL [-20 to 140 °C] UB Syltherm XLT [-100 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon OIL* | AISI 316L SS (Standard) | | XX |
| VM ½" NPT (F) Process Connection WU ½" BSP (M) WW 1" BSP (M) WX 1½" BSP (M) WB 2" BSP (M) WF 3/4" BSP (M) (Standard) WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade OIL [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] UV Halocarbon OIL* | ment Connection | | |
| WU ½" BSP (M) WW 1" BSP (M) WX 1½" BSP (M) WB 2" BSP (M) WF 3/4" BSP (M) (Standard) WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UZ Silicon DC 710 [7 to 371 °C] UZ Silicon DC 710 [7 to 371 °C] UV Food Grade OIL [-20 to 140 °C] VA Syltherm 800 [-40 to 315 °C] UV Syltherm XLT [-100 to 260 °C] UV Halocarbon OIL* | | ` ' | XX |
| WA ½" NPT (M) XC 1" NPT (M) XD 1½" NPT (M) XE 2" NPT (M) XB 3/4" NPT (M) Filling Fluids (* Consult factory for specifications, price and delivery) US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UV Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade OIL [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon OIL* | ss Connection | | |
| US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade OlL [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon OlL* | () | () (| XX |
| UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade OIL [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon OIL* | Fluids (* Consult factory for specifications, price and deliver | ry) | |
| | lurolube 6.3 [-40 to 235 °C] lurolube FS-5 [-28 to 148 °C] ood Grade OIL [-20 to 140 °C] | UZ Silicon DC 710 [7 to 371 °C] VA Syltherm 800 [-40 to 315 °C] VB Syltherm XLT [-100 to 260 °C] | xx |
| The special section of the section o | | TIAIDEALDON CIE | - |
| TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* | elium Leak Test | | XX |
| * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | • | Chemical Composition Testing. | |
| Note: For Moc Like Monel, Hastelloy-c Etc., Please Contact Factory For Price And Delivery. | For Moc Like Monel, Hastelloy-c Etc. , Please Contact Factory Fo | or Price And Delivery. | |
| For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order. | ther Optional Items, Please Contact Factory For Delivery And | Minimum Quantity Of Order. | |

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- All AISI 316 SS construction
- Light weight
- Economical
- Ideal choice for high pressure
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium

Application

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature

Specifications

Standard Version

(Compatible models : AC, AE, AH, AI, AL, AQ, BA, BE, BI, BJ, BQ & BT)

: S11 = -1 kg/cm² to 0 & 0 to 4 kg/cm² (Standard) Seal type & Range

> $S12 = 6 \text{ kg/cm}^2 \text{ to } 70 \text{ kg/cm}^2$ S13 = 100 kg/cm² to 400 kg/cm² $S14 = 250 \text{ kg/cm}^2 \text{ to } 600 \text{ kg/cm}^2$ - 40 °C to 200 °C or as per fill fluid

Process temperature 1/2" BSP (F) Instrument connection

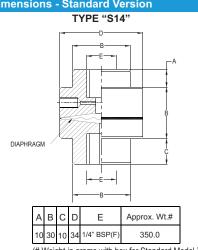
1/4" BSP (F) for type S14

Process connection 1/2" BSP (M)

1/4" BSP (F) for type S14 Fill fluid Silicon Oil - DC 200 Mounting Direct (without capillary)

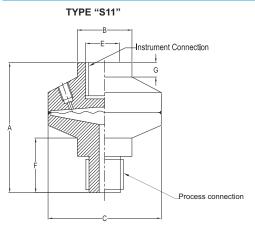
Diaphragm AISI 316L SS Body **AISI 316 SS**

Dimensions - Standard Version



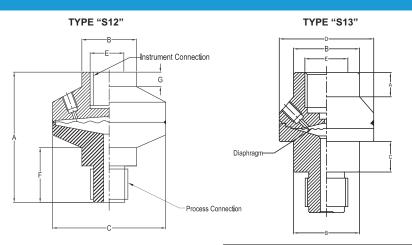
(# Weight in grams with box for Standard Model.)

Dimensions - Standard Version



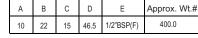
| Α | В | С | E | F | G | Approx. Wt.# |
|----|----|----|------------|----|---|--------------|
| 73 | 30 | 62 | 1/2"BSP(F) | 30 | 8 | 700.0 |
| | | | | | | |

(# Weight in grams with box for Standard Model.)



| Α | В | С | E | F | G | Approx. Wt.# |
|------|----|----|----------|----|---|--------------|
| 68.5 | 30 | 53 | ½"BSP(F) | 35 | 8 | 600.0 |

(# Weight in grams with box for Standard Model.)



(# Weight in grams with box for Standard Model.)

For other optional items, please contact factory for delivery and minimum quantity of order.

^{*} Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory.





- Laser welded flush diaphragm
- Quick connect / disconnect for easy cleaning
- Suitable for food, dairy & pharmaceutical industries

Application

 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 seals are used in hygienic applications where purity in process is essential - typically in food, dairy beverages and pharmaceutical industries

Specifications

Standard Version

(Compatible model: AE, AH, AI, AL (NS 100 mm & 150 mm) & BE

S16 = -1 to 0 & 0 to 40 kg/cm² (Standard) (Suitable for NS 100 mm & above) Seal type & Range

S17 = -1 to 0 & 0 to 40 kg/cm² (Dry seal only) (Suitable for NS 63 mm & 80 mm)

Process temperature 10°C to 150°C or as per fill fluid

 $S16 = \frac{1}{2}$ " BSP (F) Instrument connection

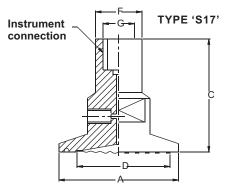
S17 = 1/4" BSP (F)

1 1/2" SANITARY SEAL (without clamp & gasket) Process connection

Mounting Direct (without capillary)

Diaphragm AISI 316L SS Body **AISI 316 SS** Fill Fluid Glycerin

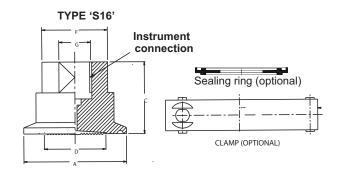
Dimensions - Standard Version



| Size | Α | С | D | F | G | Approx. Wt. # |
|------|------|----|----|-------|-------------|---------------|
| 1.5' | 50.5 | 48 | 32 | 19.50 | 1/4"BSP (F) | 250.0 |
| 2" | 64 | 48 | 40 | 19.50 | 1/4"BSP (F) | 400.0 |
| 2.5" | 77.5 | 48 | 52 | 19.50 | 1/4"BSP (F) | 600.0 |

(# Weight in grams with box for Standard Model.)

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



| Size | Α | С | D | F | G | Approx. Wt. # |
|-------|-------|----|----|------|--------------|---------------|
| 1" | 50.50 | 35 | 22 | 29.5 | 1/2" BSP (F) | 200.0 |
| 1½" | 50.50 | 35 | 32 | 38.5 | 1/2" BSP (F) | 200.0 |
| 2" | 64 | 35 | 40 | 51.5 | 1/2" BSP (F) | 350.0 |
| 21/2" | 77.5 | 35 | 52 | 64 | 1/2" BSP (F) | 500.0 |

(# Weight in grams with box for Standard Model.)



| Yo 2 Sanitary Seal IN AISI 310 S | Code | How to Order | | Exam |
|--|--|--|---|------|
| Code Optional Extras It is recommended that the size of the end connection of bottom mating part should be equivalent or greater than ½ Pipe.] | Deptional Extras | Pagia Madal | | |
| Display | The process of the end connection of bottom mating part should be equivalent or greater than ½" Pipe.] | | | _ |
| Seal Type Seal | Seal Type St6 Type | | | _ |
| Seal Type S16 | Seal Type Sife - I to 0 & 0 to 40 kg/cm² (Standard) S17 - 1 to 0 & 0 to 40 kg/cm² (Dry seal only) Santary Seal N AISI 316 SS T | · | n of hottom mating part should be equivalent or greater than 1/" Pine 1 | _ |
| S16 | S16 | | Troi bottom mating part should be equivalent of greater than 72 Pipe.] | _ |
| Sanitary Seal N AISI 316 SS | Sanitary Seal NA ISI 316 SS | | \$17 -1 to 0.8 0 to 40 kg/cm² (Dry seal only) | |
| YM 1" Sanitary Seal IN AISI 316 SS | YM 1* Sanitary Seal IN AISI 316 SS | | on -1 to o a o to 40 kg/cm (bry scaromy) | |
| Mail | VP 3/8" BSP (F) VN 1/4" NPT (F) | YM 1" Sanitary Seal IN AISI 316 SS YN 1½" Sanitary Seal IN AISI 316 SS (Standard) YO 2" Sanitary Seal IN AISI 316 SS | | XX |
| Mail | ## With War NPT (F) | Instrument Connection (* For Dry Seal Type: S17) | | |
| ## Sunitary Seal In AISI 316 SS | CL AISI 316 SS (Standard) CM AISI 316 LSS XX Bottom Mating Part KF 1* Sanitary Seal In AISI 316 SS KC 2* Sanitary Seal In AISI 316 SS KB 1/2* Sanitary Seal In AISI 316 SS KD 2 ½* Sanitary Seal In AISI 316 SS End Connection Of Bottom Mating Part AZB ½* PIPE, Sch. 40 (Plain End) SZB 3/4* PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150*C / 50 to 302*F] (Standard) UV Food Grade Oil [-20 to 140*C / -4 to 284*F] Clamp ZN 1* Clamp AISI 304 SS ZP 2* CLAMP AISI 304 SS ZO 1½* Clamp AISI 304 SS ZO 2½* CLAMP AISI 304 SS ZO 2½* CLAMP AISI 304 SS XX 36ssket (sealing Ring) FU 1* Silicon Gasket FX 1½* Silicon Gasket GX 1½* PTFE Gasket FX 1½* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG if Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60*C) XX Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | , | VP 3/8" BSP (F) | XX |
| Bottom Mating Part KF 1* Sanitary Seal In AISI 316 SS KC 2* Sanitary Seal In AISI 316 SS KB 1½* Sanitary Seal In AISI 316 SS KD 2 ½* Sanitary Seal In AISI 316 SS KB 1½* Sanitary Seal In AISI 316 SS KB 1½* Sanitary Seal In AISI 316 SS KB 1½* Sanitary Seal In AISI 316 SS KD 2 ½* Sanitary Seal In AISI 316 SS KD 2 ½* Sanitary Seal In AISI 316 SS KD 2 ½* Sanitary Seal In AISI 316 SS End Connection Of Bottom Mating Part 4ZB ½* PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1* Clamp AISI 304 SS ZO 1½* Clamp AISI 304 SS Gasket (sealing Ring) FU 1* Silicon Gasket GX 1½* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket GY 2* PTFE Gasket FY 2* Silicon Gasket GY 2* PTFE Ga | Bottom Mating Part KF 1* Sanitary Seal In AISI 316 SS KC 2* Sanitary Seal In AISI 316 SS KB 1½* Sanitary Seal In AISI 316 SS KD 2½* Sanitary Seal In AISI 316 SS End Connection Of Bottom Mating Part 4ZB ½** PIPE, Sch. 40 (Plain End) SZB 3/4* PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Dialphragm UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1** Clamp AISI 304 SS ZP 2** CLAMP AISI 304 SS ZQ 2½** CLAMP AISI 304 SS ZQ 2½** CLAMP AISI 304 SS ZASket (sealing Ring) FU 1** Silicon Gasket GX 1½* PTFE Gasket GX 1½* PTFE Gasket GX 1½* PTFE Gasket GX 1½* PTFE Gasket GX 2** PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* X: Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | Body | | |
| KF 1" Sanitary Seal In AISI 316 SS KC 2" Sanitary Seal In AISI 316 SS KD 2 ½" Sanitar | KF 1" Sanitary Seal In AISI 316 SS KD 2 %" Sanit | CL AISI 316 SS (Standard) | CM AISI 316L SS | XX |
| KB 1½" Sanitary Seal In AISI 316 SS KD 2½" Sanitary Seal In AISI 316 SS End Connection Of Bottom Mating Part 4ZB ½" PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UF Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZQ 2½" CLAMP AISI 304 SS ZO 1½" PTFE Gasket | KB 1½" Sanitary Seal In AISI 316 SS KD 2½" Sanitary Seal In AISI 316 SS End Connection Of Bottom Matting Part 428 ½" PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150°C / 50 to 302°F] (Standard) UF Glycerin [10 to 150°C / 50 to 302°F] (Standard) UV Food Grade Oil [-20 to 140°C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZQ 2½" CLAMP AISI 304 SS ZQ 2½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GX 1½" PIFE Gasket FX 1½" Silicon Gasket GX 1½" PIFE Gasket FX 2½" Silicon Gasket GX 1½" PIFE Gasket FX 2½" Silicon Gasket GX 2½" PIFE Gasket FX 2½" Silicon Gasket GX 2½" PIFE Gasket FX 2½" Silicon Gasket FX 2½" Silicon Gasket FX 2½" Silicon Gasket FX 1½" Silicon Gasket | <u> </u> | | |
| End Connection Of Bottom Mating Part 4ZB ½" PIPE, Sch. 40 (Plain End) Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) WF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZP 2" CLAMP AISI 304 SS ZQ 2 ½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GX 1½" PTFE Gasket FX 1½" Silicon Gasket GX 1½" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" FTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket F | End Connection Of Bottom Mating Part 42B ½* PIPE, Sch. 40 (Plain End) 52B 3/4* PIPE, Sch. 40 (Plain | • | | XX |
| SZB 3/4" PIPE, Sch. 40 (Plain End) SZB 3/4" PIPE, Sch. 40 (Plain End) X2 | SZB 3/4" PIPE, Sch. 40 (Plain End) SZB 3/4" PIPE, Sch. 40 (Plain End) Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Please Consult Factory. Xi Note: Threaded Connections Are Available On Request. Xi Note: Threaded Connections Are Avai | | KD 2 ½ Sanitary Seai in AISI 3 to SS | _ |
| Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) WF Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UG Liquid Paraffin [10 To 200 °C / 50 To 392 °F] VV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZP 2" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZQ 2½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GX 1½" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gask | Note: Threaded Connections Are Available On Request. Please Consult Factory. Diaphragm UJ AISI 316L (Standard) WF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) WF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) WF Gold Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZQ 2 ½" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Silicon Gasket FX 1½" Silicon Gasket FX 1½" Silicon Gasket FY 2" Silicon Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket FY 1½" Silicon Gasket FY 2" Silicon Gasket FY 1½" PTFE Gasket FY | - | 57D 3/// PIDE Sch /// (Plain End) | |
| UJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UF Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZQ 2 ½" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZQ 2 ½" CLAMP AISI 304 SS ZO 1½" Silicon Gasket FX 1½" Silicon Gasket GX 1½" PTFE Gasket GX 1½" PTFE Gasket FX 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" YFFE Gasket FY 2" Silicon Gasket GY 2" YFFE Gasket FY 2" Silicon Gask | AUJ AISI 316L (Standard) Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZP 2" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GX 1½" PTFE Gasket GX 1½" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket FZ 2½" PTFE Gasket FZ 2 | Note: Threaded Connections Are Available On Requ | | |
| Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZD 1½" Clamp AISI 304 SS ZO 1½" PTFE Gasket ST½" Silicon Gasket GX 1½" PTFE Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GZ 2½" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" PTFE Gasket FZ 2½" PTF | Filling Fluids UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Silicon Gasket FX 1½" PTFE Gasket FX 1½" PTFE Gasket FX 1½" PTFE Gasket FX 1½" Silicon Gasket FX 1½" PTFE Gasket FX 1½" PT | · | | |
| UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS ZD 2" CLAMP AISI 304 SS ZO 1½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GX 1½" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket FY 2 | UF Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) UV Food Grade Oil [-20 to 140 °C / -4 to 284 °F] Clamp ZN 1" Clamp AISI 304 SS | | | |
| Clamp ZN 1" Clamp AISI 304 SS ZP 2" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZQ 2½" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZQ 2½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GW 1" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FX 2½" Silicon Gasket GY 2" PTFE Gasket FX 2½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FX 2½" Silicon Gasket GY 2" PTFE Gasket FX 2½" PTFE Gasket FX 2½" Silicon Gasket GX 1½" PTFE Gasket FX 2½" PTFE Gasket FX 2½" PTFE Gasket FX 2½" Silicon Gasket FX 2½" PTFE Gasket PX 2½ | Clamp ZN 1" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 2½" CLAMP AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 1½" Clamp AISI 304 SS ZO 2½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket GW 1" PTFE Gasket FX 1½" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket FZ 2½" PTFE Gasket FZ 2½" Silicon Gasket FZ 2½" FTFE Gasket FZ 2½" FT | | IIG Liquid Dereffin I40 To 200 °C / F0 To 202 °C1 | |
| ZP 2" CLAMP AISI 304 SS ZQ 2 ½" PTFE Gasket FX 1½" Silicon Gasket GX 1½" PTFE Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FY 2" Silicon Gasket FY 1½" PTFE Gask | ZP 2" CLAMP AISI 304 SS ZD 1½" Clamp AISI 304 SS ZD 2½" CLAMP AISI 304 | | 20 Elquid Parallill [10 10 200 C7 30 10 392 F] | ^/ |
| ZQ 2 ½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket | ZQ 2 ½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket | Clamp | | |
| ZQ 2 ½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket | ZQ 2 ½" CLAMP AISI 304 SS Gasket (sealing Ring) FU 1" Silicon Gasket | • | ZP 2" CLAMP AISI 304 SS | |
| FU 1" Silicon Gasket FX 1½" Silicon Gasket GX 1½" PTFE Gasket FX 2" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* XX * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | FU 1" Silicon Gasket FX 1½" Silicon Gasket FX 1½" Silicon Gasket FX 1½" Silicon Gasket FX 1½" Silicon Gasket FX 2" Silicon Gasket FX 2" Silicon Gasket FX 2" Silicon Gasket FX 2½" FYFE Gasket FX 2½" FYFE Gasket FX 2½" Silicon Gasket FX 2½" FYFE G | | ZQ 2 ½" CLAMP AISI 304 SS | XX |
| FX 1½" Silicon Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | FX 1½" Silicon Gasket FY 2" Silicon Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket GY 2" PTFE Gasket FZ 2½" Silicon Gasket GZ 2½" PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument The Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | Gasket (sealing Ring) | | |
| FY 2" Silicon Gasket FZ 2 ½" Silicon Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | FY 2" Silicon Gasket FZ 2 ½" Silicon Gasket GZ 2 ½" PTFE Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) TABLE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | |
| FZ 2 ½" Silicon Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* XX * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | FZ 2 ½" Silicon Gasket Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | XX |
| Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | Remote Mounting (with Capillary Of Max. Up To 2 Mtrs.) Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* X Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | |
| Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | _ |
| Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | Capillary PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | 1Mt |
| PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | PE AISI 304 SS PG AISI 316 SS Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | . , , , , , , , , , , , , , , , , , , , | , | |
| Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | Capillary Covered With Armour (applicable With PE Or PG If Selected) PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | <u> </u> | 888 | XX |
| PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | Capillary Covered With Armour (applicable With PE C | or PG If Selected) | |
| Other Options TB Helium Leak Test | Other Options TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | | XX |
| TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* XX * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, | TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | | , | |
| , | Please Consult Factory. | - | Only Without Instrument GH Material Test Certificates* | XX |
| | For Other Optional Home Places Contact Factory For Polivary And Minimum Quantity Of Order | * Material Test Certificates Will Be Provided For Wette | • | |

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.





- Continuous duty
- Flushing ring (optional)
- "I" Section extension to facilitate smaller flange sizes
- Suitable for corrosive & viscous service

Application

- 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
- This can be widely used with anti corrosive treatment/protection & various flanged sizes

Specifications

Standard Version (preferable For Flange Size 1" And Below)

(compatible Models : AC, AE, AH, AI, AL, AQ, BA, BE, BI, BJ, BQ & BT)

Seal type & Range : S21= -1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard)

 $S22 = 100 \text{ kg/cm}^2 \text{ to } 400 \text{ kg/cm}^2$

S23= -1 to 0 kg/cm² & 0 to 70 kg/cm²

Process temperature : Max. 150 °C for PTFE lined

- 40 °C to 200 °C for without PTFE lined

Instrument connection : ½" BSP (F)

Process connection Flange (as per DIN/BS/ANSI/JIS) Finish 125 - 250 AARH

Fill fluid : Silicon Oil - DC 200

Mounting : Direct (without capillary)

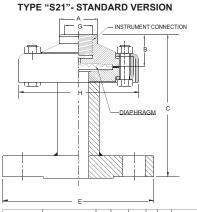
* Range of selected instrument shall be suitable to flange pressure rating.

Diaphragm : AISI 316L SS Top chamber : AISI 304 SS

Bottom chamber ("I" section) : AISI 316 SS flange (as per DIN/BS/ANSI/JIS)

Nut, bolts & slip ring (cup type) : Steel (Plated)
Sealing gasket : PTFE

Dimensions - Standard Version



Seal Type Ranges A ~ B ~ C E H G S21 -1 to 0 kg/cm² 0 to 70 kg/cm² 30 31 75 * 98 ½" BSP (F)

INSTRUMENT CONNECTION B CC C

TYPE "S22"

| Seal Type | Ranges | Α | ~ B | ~ C | Е | Н | G | |
|-----------|-------------------------------|----|-----|-----|---|-----|----------|-----|
| S22 | 100 to 400 kg/cm ² | 30 | 44 | 50 | * | 110 | 1/2" BSP | (F) |
| | | | | | | | | |

INSTRUMENT CONNECTION B DIAPHRAGM C

TYPE "S23"

| Seal Type | Ranges | Α | ~ B | ~ C | Ε | Н | G |
|-----------|--|----|-----|-----|---|----|--------------|
| S23 | -1 to 0 kg/cm ² 0 to 70 kg/cm ² | 30 | 31 | 75 | * | 98 | 1/2" BSP (F) |

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

^{*} As per standard flange table ANSI, DIN, BS, JIS Etc.,



Flange Table With Ordering Codes

How To Select

e.g. For flange size of 1as per BS-10 table E with raised face : B97 - A2

A2 Raised Face

A3 Flat Face

Flange Finish shall be 125 - 250 AARH as a standard. For other finish, please consult factory.

| As Per DIN 2527 | | | | | | | |
|-----------------|-----|------|--|--|--|--|--|
| DN | PN | CODE | | | | | |
| | 6 | A01 | | | | | |
| | 10 | A02 | | | | | |
| | 16 | A03 | | | | | |
| | 25 | A04 | | | | | |
| 10 | 40 | A05 | | | | | |
| | 64 | A06 | | | | | |
| | 100 | A07 | | | | | |
| | 160 | A08 | | | | | |
| | 250 | A09 | | | | | |
| | 400 | A10 | | | | | |
| | 6 | A11 | | | | | |
| | 10 | A12 | | | | | |
| | 16 | A13 | | | | | |
| | 25 | A14 | | | | | |
| 15 | 40 | A15 | | | | | |
| | 64 | A16 | | | | | |
| | 100 | A17 | | | | | |
| | 160 | A18 | | | | | |
| | 250 | A19 | | | | | |
| | 400 | A20 | | | | | |
| | 6 | A21 | | | | | |
| | 10 | A22 | | | | | |
| 20 | 16 | A23 | | | | | |
| | 25 | A24 | | | | | |
| | 40 | A25 | | | | | |
| | 6 | A26 | | | | | |
| | 10 | A27 | | | | | |
| | 16 | A28 | | | | | |
| | 25 | A29 | | | | | |
| 25 | 40 | A30 | | | | | |
| | 64 | A31 | | | | | |
| | 100 | A32 | | | | | |
| | 160 | A33 | | | | | |
| | 250 | A34 | | | | | |
| | 400 | A35 | | | | | |

As Per DIN 2633

| DN | PN | CODE |
|----|----|------|
| 10 | | A81 |
| 15 | 16 | A82 |
| 20 | | A83 |
| 25 | | A84 |

As Per DIN 2635

| DN | PN | CODE |
|----|----|------|
| 10 | | A99 |
| 15 | 40 | B01 |
| 20 | | B02 |
| 25 | | B03 |

As Per DIN 2642

| DN | PN | CODE |
|----|----|------|
| 10 | | A90 |
| 15 | 10 | A91 |
| 20 | | A92 |
| 25 | | A93 |
| | | |

As Per ANSI B 16.5

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 150 | B09 |
| | 300 | B10 |
| 1/2" | 600 | B11 |
| | 900 | B12 |
| | 1500 | B13 |
| | 2500 | B14 |
| | 150 | B15 |
| | 300 | B16 |
| 3/4" | 600 | B17 |
| | 900 | B18 |
| | 1500 | B19 |
| | 2500 | B20 |
| | | _ |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 150 | B21 |
| | 300 | B22 |
| 1" | 600 | B23 |
| | 900 | B24 |
| | 1500 | B25 |
| | 2500 | B26 |

As Per JIS - B 2210

| As Per JIS - B 2210 | | | | |
|---------------------|------------------|------|--|--|
| NOMINAL SIZE | RATING /CLASS | CODE | | |
| | 5K | B57 | | |
| 10A | 10K | B58 | | |
| | 40K | B59 | | |
| | 5K | B60 | | |
| 15A | 10K | B61 | | |
| | 40K | B62 | | |
| | 5K | B63 | | |
| 20A | 10K | B64 | | |
| | 40K | B65 | | |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 5K | B66 |
| 25A | 10K | B67 |
| | 40K | B68 |

As Per BS - 10

| AST CI BO TO | | | | |
|-----------------|-------|------|--|--|
| NOMINAL SIZE | TABLE | CODE | | |
| | D | B84 | | |
| | E | B85 | | |
| 1/2" | F | B86 | | |
| | Н | B87 | | |
| | J | B88 | | |
| | K | B89 | | |
| | D | B90 | | |
| | Е | B91 | | |
| 3/4" | F | B92 | | |
| | Н | B93 | | |
| | J | B94 | | |
| | K | B95 | | |

| NOMINAL SIZE | TABLE | CODE |
|-----------------|-------|------|
| | D | B96 |
| | E | B97 |
| 1" | F | B98 |
| | Н | B99 |
| | J | C01 |
| | K | C02 |



| | | | | | | | | | | | Exam |
|--|--|--|--|--|--|--|--|--|----------------|-------------|-----------------|
| Basic Model | | | | | | | | | | | |
| Code | | | | | | | | | | | |
| Optional Extras | | | | | | | | | | | |
| It is recommended that the Mo | OC of D | iaphragm sho | uld be equ | uivqlent or superi | or than | the MOC | of Botto | m cham | nber.] | | |
| Seal Type | | | | | | | | | | | |
| S21 1 to 0 kg/cm ² & 0 to 70 kg/ | /cm² (St | andard) S | 322 100 k | g/cm² to 400 kg/d | cm² | S23 - | 1 to 0 kg | /cm² & 0 | to 70 kg | /cm² | XXX |
| nstrument Connection | | | | | | | | | | | |
| /P 3/8" BSP (F) | | | VL ½" BS | SP (F)(Standard) | | VM ½ | ⁄2" NPT (| F) | | | XX |
| Гор Chamber | | | | , ,, | | | • | | | | |
| XW AISI 304 SS (Standard) | XY | ' AISI 316 S | 3 | YA AISI 316L | SS | | YC | Carbon | Steel | | XX |
| Diaphragm (* Range up | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | Silver* | | UR Titan | ium | | UJ A | ISI 316I | SS (Star | ndard) | | XX |
| JQ Tantalum | | | UM Mon | el | | | | ` | , | | |
| Sealing Gasket | | | | | | | | | | | |
| /I PTFE (Standard) YR | Metal | | | | | | | | | | XX |
| Bottom Chamber (I Section) | (* R | efer Pressure | v/s Tempe | rature table belov | v.) | | | | | | |
| TK AISI 304 SS | TZ | PVC'* | | | | | | | | | |
| FL AISI 316L SS | | PVDF* | | MOC OF | | | SSURE V/S | | | | XX |
| JH Titaniun IT Hastelloy C | TY | POLYPROPE | ELENE* | BOTTOM CHAMBER | | 40 °C 10 kg/cm² | 60 °C | 80 °C | 100 °C | 120 °C | |
| TX Monel | | | | PVDF | | 10 kg/cm² | 10 kg/cm² | | 4 kg/cm² | 2 kg/cm² | |
| TN Carbon Steel | | | | PVC | | 10 kg/cm² | 6 kg/cm ² 4 kg/cm ² | 4 kg/cm ² 1 kg/cm ² | 1 kg/cm² NA | NA NA | |
| FM AISI 316 SS (Standard) | | | | 1 00 | 10 kg/cili | TO Kg/CITI | 4 kg/cm | i kg/ciii | INA | IVA | |
| Process Connection | | | | | | | | | | | |
| As Per DIN / BS / ANSI/ JIS (s | elect Co | ode From Flan | ge Table) | | | | | | | | XXX |
| | | | | | | | | | | | |
| Tension Flange & Nut - Bolts | (*Nut 8 | Bolts will be | AISI 304 | SS) | | | | | | | |
| | • | | AISI 304 | | Steel (pla | ated) | | | | | ~~ |
| /B Pressed Steel - Cup Type | • | | AISI 304 | XS S | Steel (pla | , | | | | | XX |
| Tension Flange & Nut - Bolts /B Pressed Steel - Cup Type (Q AISI 304 SS Protection On Wetted Parts | • | | AISI 304 | XS S | ٠. | , | | | | | XX |
| /B Pressed Steel - Cup Type (Q AISI 304 SS Protection On Wetted Parts /S PTFE Lining On Bottom C | (plated) |) (standard) | N)- 2 mm 1 | XS S XR A | 150 °C) | SS* | | | | | XX |
| /B Pressed Steel - Cup Type (Q AISI 304 SS Protection On Wetted Parts /S PTFE Lining On Bottom C /V PTFE Protection For Diap | (plated) Chambe |) (standard) or ("I" SECTION Max. Up to 15 | N)- 2 mm | XS S XR A | 150 °C) | SS* | | | | | xx |
| /B Pressed Steel - Cup Type (Q AISI 304 SS Protection On Wetted Parts /S PTFE Lining On Bottom C /V PTFE Protection For Diap /Z PTFE Coating On Diaphra | (plated) Chambe hragm (Ma |) (standard) or ("I" SECTION Max. Up to 15 ax. Up to 315 ° | N)- 2 mm | XS S XR A Thick (Max. Up to table for Pressure | 150 °C) | SS* | | | | | |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom C /V PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation Con | (plated) Chambe hragm (agm (Ma |) (standard) or ("I" SECTION Max. Up to 15 | N)- 2 mm | XS S XR A Thick (Max. Up to table for Pressure and delivery) | 150 °C) e Range | SS* s only) | | | | | |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom O /V PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of the coating of | (plated) Chambe hragm (agm (Ma t factory |) (standard) or ("I" SECTION Max. Up to 15 ax. Up to 315 ° | N)- 2 mm | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC | 150 °C) e Range | s only) | - | | | | |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom O /V PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of the coation of | Chambe hragm (Magm (Ma t factory |) (standard) or ("I" SECTION Max. Up to 15 ax. Up to 315 ° | N)- 2 mm | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC | 150 °C) e Range : 704 [10 | SS* s only) to 337 ° to 371 °C | ;] | | | | xx |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom O /V PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of the coating of | Chambee hragm (Magm (Mact factory C) C] |) (standard) or ("I" SECTION Max. Up to 15 ax. Up to 315 ° | N)- 2 mm | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC | 150 °C) PRANTE RANGE 704 [10] 710 [71] | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom O // PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of the coating of | Chambe hragm (Ma t factory CC] CC] 3 °C] 10 °C] | or ("I" SECTION Max. Up to 15 ax. Up to 315° or for specificati | N)- 2 mm | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | xx |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom O /V PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consult JS Flurolube 4.2 [-45 to 175° JT Flurolube 6.3 [-40 to 235° JU Flurolube FS-5 [-28 to 148 JV Food Grade Oil [-20 to 14 Silicon DC 200 [-40 to 205 | Chambee hragm (dagm (Mactifactory 12 C) 12 C) 13 °C] 10 °C] (St | or ("I" SECTION Max. Up to 15 ax. Up to 315 or or for specificati | N)- 2 mm \\ 0 °C) (Sui' C) ons, price | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm S VB Syltherm S | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | xx |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom Of PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of Consu | Chambe hragm (Ma t factory CC] CC] 3 °C] 10 °C] 5 °C] (St | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati | N)- 2 mm \\ 0 °C) (Sui C) ons, price | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm S VB Syltherm S | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | xx |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom Of PTFE Protection For Diaple PTFE Coating On Diaphra (* Consultation of Consu | Chambe hragm (Ma t factory CC] CC] 3 °C] 10 °C] 5 °C] (St | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati | N)- 2 mm \\ 0 °C) (Sui C) ons, price | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm S VB Syltherm S | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | xx |
| AS Pressed Steel - Cup Type AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI PTFE Lining On Bottom On Particular Parts AISI PTFE Coating On Diaphra AISI Flurolube 4.2 [-45 to 175° AISI Flurolube 6.3 [-40 to 235° AISI Flurolube FS-5 [-28 to 148] AISI Silicon DC 200 [-40 to 205] AISI Semote Mounting (With capill specify In Meters (e.g. 1.5 = 1.5) | Chambe hragm (Ma t factory CC] CC] 3 °C] 10 °C] 5 °C] (St | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati standard) Max. Up to 6 ERS 2.0 = 2 M | N)- 2 mm \\ 0 °C) (Sui C) ons, price | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm S VB Syltherm S | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | xx |
| AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI Protection For Diap AISI | Chambe Chambe Chambe Chambe Chagm (Ma t factory CC] CC] CC] CC] CC] CC] CC] CC] CC] CC | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati max. Up to 6 ERS 2.0 = 2 M | N)- 2 mm 1 0 °C) (Sui C) ons, price Mtrs.) | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 VB Syltherm NC VC Halocarbo | 150 °C) Range 704 [10 710 [71 | s only) to 337 ° to 371 ° Cto 315 ° | [] [] | | | | XX XX |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom Of PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of Con | Chambe Chambe Chambe Chambe Chagm (Ma t factory CC] CC] CC] CC] CC] CC] CC] CC] CC] CC | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specification max. Up to 6 ERS 2.0 = 2 M 16 SS colicable with F | M)- 2 mm 1 0 °C) (Sui C) ons, price Mtrs.) METERS) | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 VB Syltherm NC VC Halocarbo | 150 °C) PRANGE 1704 [10] 710 [71] 710 [74] 710 [74] 710 [74] 710 [74] 710 [74] | s only) to 337 ° to 371 °C to 315 °C to 260 ° | [] [] | | | | XX XX 3Mt |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom Of /V PTFE Protection For Diaple /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of | Chambe hragm (Magm | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specification max. Up to 6 ERS 2.0 = 2 M 16 SS colicable with F | M)- 2 mm 1 0 °C) (Sui C) ons, price Mtrs.) METERS) | XS S XR A Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm S VB Syltherm S VC Halocarbo | 150 °C) PRANGE 1704 [10] 710 [71] 710 [74] 710 [74] 710 [74] 710 [74] 710 [74] | s only) to 337 ° to 371 °C to 315 °C to 260 ° | [] [] | | | | XX XX |
| AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI 304 SS PTFE Lining On Bottom On Wetted Parts AISI Protection For Diap AISI AISI 304 SS AISI | Chambe hragm (Ma t factory CC] 3 °C] 5 °C] (St llary of .5 METI AISI 3 | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati max. Up to 6 ERS 2.0 = 2 M 16 SS Ilicable with F | Mtrs.) METERS) PE or PG | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 VB Syltherm 9 VC Halocarbo | 150 °C) PRAISE TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR | SS* s only) to 337° to 371°C to 315°C to 260° | [] [] [] | | | | XX XX 3Mt |
| /B Pressed Steel - Cup Type (Q AISI 304 SS) Protection On Wetted Parts /S PTFE Lining On Bottom Of PTFE Protection For Diap /Z PTFE Coating On Diaphra Filling Fluids (* Consultation of Consu | Chambe hragm (Ma t factory CC] 3 °C] 5 °C] (St llary of AISI 3 | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specification Max. Up to 6 ERS 2.0 = 2 M 16 SS Colicable with F 16 SS F al Only Without | Mtrs.) METERS) PE or PG | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 VB Syltherm 9 VC Halocarbo | 150 °C) PRANGE 150 °C) Range 1704 [10] 1718 1710 [718 17 | SS* s only) to 337° to 371°C to 315°C to 260° | [] [] [] | | | | XXX 3Mt XX |
| AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI 304 SS Protection On Wetted Parts AISI PTFE Lining On Bottom On Parts AISI PTFE Coating On Diaphra AISI PTFE Coating On Diaphra AISI Flurolube 4.2 [-45 to 175° AISI Flurolube 6.3 [-40 to 235° AISI Flurolube FS-5 [-28 to 148] AISI Silicon DC 200 [-40 to 205] AISI Silicon DC 200 [-40 to 205] AISI AISI 304 SS | Chambe hragm (Ma t factory C) | or ("I" SECTION Max. Up to 15 ax. Up to 315 or for specificati tandard) Max. Up to 6 ERS 2.0 = 2 M 16 SS Dicable with F 16 SS F al Only Without | M)- 2 mm 7 0 °C) (Sui C) ons, price Mtrs.) METERS) PE or PG i PI PVC (A | Thick (Max. Up to table for Pressure and delivery) UY Silicon DC UZ Silicon DC VA Syltherm 8 VB Syltherm 9 VC Halocarbo if selected) ambient Temp. Maxent | 150 °C) Parameter Range 150 °C) Range 1704 [10] 1710 [71] 1800 [-40] 1800 [-4 | SS* s only) to 337 °C to 315 °C to 260 °C | c] C] C] | ars plan | | ult factory | XXX 3Mt XX |

For other optional items, please contact factory for delivery and minimum quantity of order.





- Laser welded flush diaphragm
- Easy flushing (through flushing ring)
- Most suitable for slurry, corrosive & high viscous service
- Flushing ring, flange & diaphragm are available in various type of SS & exotic materials.

Application

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.

Specifications

Standard Version (For Flange Size 11/2" And Above)

(Compatible Models : AC, AE, AH, AI, AL, AQ, BA, BE, BI, BJ, BQ & BT)

Range : -1 kg/cm² 0 & 0 to 250 kg/cm²*

Process Temperature : -40°C to 200°C or as per fill fluid

Instrument Connection : ½" BSP (F)

Process Connection Flange (As per DIN/BS/ANSI/JIS), 40 NB (11/2") & above

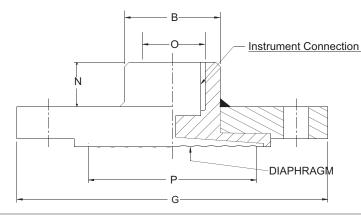
Flange Finish : 125-250 AARH

* Range of selected instrument shall be suitable to flange pressure rating.

Diaphragm : AISI 316L SS
Flange : AISI 316 SS
Fill Fluid : Silicon Oil - DC 200

Gasket : PTFE

Dimensions - Standard Version



| В | G | N | 0 | Р |
|----|----|----|-------------|-----|
| 30 | ** | 20 | 1/2" BSP(F) | *** |

* * * 40 / 53 / 63 / 70 mm Dia. Diaphragm to suit Flange

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

^{* *} As per standard flange table ANSI, DIN, BS, JIS Etc.,



Flange Table With Ordering Codes

How To Select

E.g. For flange size of 1 $\frac{1}{2}$ " as per BS-10 table E with raised face : C10 - A2

A2 Raised Face

A3 Flat Face

Flange Finish shall be 125 - 250 AARH as a standard. For other finish, please consult factory.

As Per DIN 2527

| | AS PE | er DIN 252 |
|----|-------|------------|
| DN | PN | CODE |
| | 6 | A41 |
| | 10 | A42 |
| | 16 | A43 |
| | 25 | A44 |
| 40 | 40 | A45 |
| | 64 | A46 |
| | 100 | A47 |
| | 160 | A48 |
| | 250 | A49 |
| | 400 | A50 |
| | 6 | A51 |
| | 10 | A52 |
| | 16 | A53 |
| | 25 | A54 |
| 50 | 40 | A55 |
| | 64 | A56 |
| | 100 | A57 |
| | 160 | A58 |
| | 250 | A59 |
| | 400 | A60 |

| DN | PN | CODE |
|----|-----|------|
| | 6 | A61 |
| | 10 | A62 |
| | 16 | A63 |
| | 25 | A64 |
| 65 | 40 | A65 |
| | 64 | A66 |
| | 100 | A67 |
| | 160 | A68 |
| | 250 | A69 |
| | 400 | A70 |
| | 6 | A71 |
| | 10 | A72 |
| | 16 | A73 |
| | 25 | A74 |
| 80 | 40 | A75 |
| | 64 | A76 |
| | 100 | A77 |
| | 160 | A78 |
| | 250 | A79 |
| | 400 | A80 |

As Per ANSI B 16.5

| NOMINAL SIZE | RATING /CLASS | CODE | |
|-----------------|------------------|------|--|
| | 150 | B33 | |
| | 300 | B34 | |
| 1 ½" | 600 | B35 | |
| | 900 | B36 | |
| | 1500 | B37 | |
| | 2500 | B38 | |
| | 150 | B39 | |
| | 300 | B40 | |
| 2" | 600 | B41 | |
| | 900 | B42 | |
| | 1500 | B43 | |
| | 2500 | B44 | |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 150 | B45 |
| | 300 | B46 |
| 21/2" | 600 | B47 |
| | 900 | B48 |
| | 1500 | B49 |
| | 2500 | B50 |
| | 150 | B51 |
| | 300 | B52 |
| 3" | 600 | B53 |
| | 900 | B54 |
| | 1500 | B55 |
| | 2500 | B56 |

As Per DIN 2642

| DN | PN | CODE |
|----|----|------|
| 40 | 10 | A95 |
| 50 | | A96 |
| 65 | | A97 |
| 80 | | A98 |

As Per DIN 2635

| PN | CODE |
|----|------|
| 40 | B05 |
| | B06 |
| | B07 |
| | B08 |
| | |

As Per BS - 10

| 710 1 01 20 10 | | | |
|-----------------|-------|------|--|
| NOMINAL SIZE | TABLE | CODE | |
| | D | C09 | |
| | E | C10 | |
| 11/2" | F | C11 | |
| | Н | C12 | |
| | J | C13 | |
| | K | C14 | |
| | D | C15 | |
| | Е | C16 | |
| 2" | F | C17 | |
| | Н | C18 | |
| | J | C19 | |
| | K | C20 | |
| | | | |
| | | | |

| TABLE | CODE |
|-------|-----------------------|
| D | C21 |
| Е | C22 |
| F | C23 |
| Н | C24 |
| J | C25 |
| K | C26 |
| D | C27 |
| Е | C28 |
| F | C29 |
| Н | C30 |
| J | C31 |
| K | C32 |
| | D E F H J K D E F H J |

As Per DIN 2633

| DN | PN | CODE |
|----|----|------|
| 40 | 16 | A86 |
| 50 | | A87 |
| 65 | | A88 |
| 80 | | A89 |

As Per JIS - B 2210

| NOMINAL SIZE | (0) 400 | |
|-----------------|---------|-----|
| 40A | 5K | B72 |
| | 10K | B73 |
| | 40K | B74 |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 5K | B75 |
| 50A | 10K | B76 |
| | 40K | B77 |
| | 5K | B78 |
| 65A | 10K | B79 |
| | 40K | B80 |
| | 5K | B81 |
| 80A | 10K | B82 |
| | 40K | B83 |

| How To Order | Example |
|--|---------|
| | |
| Basic Model | |
| Code | |
| Optional Extras | |
| [It is recommended that the MOC of Diaphragm & flange should be equivalent.] | |
| Instrument Connection | |
| VM ½" NPT (F) VL ½" BSP (F)(Standard) VP 3/8" BSP (F) | XX |
| Diaphragm | |
| UQ Tantalum UR Titanium UJ AISI 316L SS (Standard) UL Hastelloy 'C' UM Monel | XX |
| Flange Material | |
| TKAISI 304 SSTNCarbon SteelUHTitaniumUDTANTALUMTLAISI 316L SSTXMonelTTHastelloy CTMAISI 316 SS (Standard) | XX |
| Process Connection | |
| As Per DIN / BS / ANSI / JIS (Select Code From Flange Table) | XXX |
| Protection On Wetted Parts | |
| VZ PTFE Coating On Diaphragm (Max. Up to 315 °C)VV PTFE Protection For Diaphragm (Max. Up to 150 °C) (Suitable for Pressure Ranges only) | XX |
| Filling fluids (* Consult factory for specifications, price and delivery.) | |
| US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] | XX |
| UV Food Grade Oil [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] | |
| UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon Oil* | |
| Remote Mounting (With capillary of Max. Up to 6 Mtrs.) | 01.44 |
| Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) CAPILLARY | 3Mtr. |
| PE AISI 304 SS PG AISI 316 SS | XX |
| Capillary Covered With Armour (Applicable with PE or PG if selected) | |
| PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) | XX |
| OPTIONS | |
| TB Helium Leak Test TC Dry Seal Only Without Instrument | XX |
| GH Material Test Certificates* TF Conformity as per NACE Standard | 7,51 |
| * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing For Others | |

^{*} Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory.

Refer Datasheet EE for selection of Flushing Rings.

For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



- Welded diaphragm
- Most suitable for slurry & corrosive service
- Flushing ring, flange & diaphragm are
- Available in various type of ss & exotic materials

Application

- 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

Specifications

Standard Version (For Flange Size 11/2" And Above)

(Compatible Models: AC, AE, AH, AI, AL, AQ, BA, BE, BI, BJ & BT)

Seal type : S26 = -1 to 0 kg/cm² & 0 to 250 kg/cm² (Non PTFE Lined)*(Standard)

S27 = -1 to 0 kg/cm² & 0 to 40 kg/cm² (PTFE Lined)*

Process temperature : Max. 150 °C for PTFE lined

- 40 °C to 200 °C for without PTFE lined

Instrument connection : ½" BSP (F)

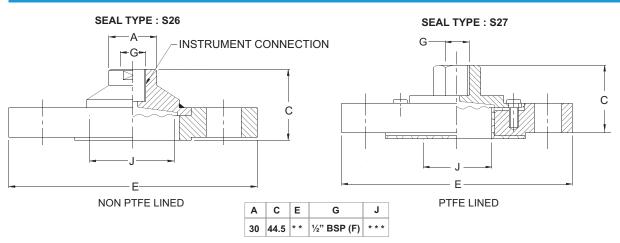
Process connection : Flange(As per DIN/BS/ANSI/JIS), 40 NB(11/2") & above

Fill fluid : Silicon Oil - DC 200 Flange finish : 125-250 AARH

* Range of selected instrument shall be suitable to flange pressure rating.

Diaphragm : AISI 316L SS
Top chamber : AISI 304 SS
Flange : AISI 316 SS

Dimensions - Standard Version



- * * As per standard flange table ANSI, DIN, BS, JIS, Etc.,
- * * * Diaphragm Dia. to suit Flange



Flange Table With Ordering Codes

How To Select

E.g. For flange size of 1 $\frac{1}{2}$ " as per BS-10 table e with raised face : C10 - A2

A2 Raised Face

A3 Flat Face

Flange Finish shall be 125 - 250 AARH as a standard. For other finish, please consult factory.

| | As Pe | er DIN 25 | 27 | | |
|----|---------|-----------|-----|-----|------|
| DN | PN | CODE | DN | PN | CODE |
| | 6 | A41 | | 6 | A61 |
| | 10 | A42 | | 10 | A62 |
| | 16 | A43 | | 16 | A63 |
| | 25 | A44 | | 25 | A64 |
| 40 | 40 | A45 | 65 | 40 | A65 |
| | 64 | A46 | | 64 | A66 |
| | 100 | A47 | | 100 | A67 |
| | 160 | A48 | | 160 | A68 |
| | 250 | A49 | | 250 | A69 |
| | 400 A50 | | 400 | A70 | |
| | 6 | A51 | | 6 | A71 |
| | 10 | A52 | | 10 | A72 |
| | 16 | A53 | | 16 | A73 |
| | 25 | A54 | | 25 | A74 |
| 50 | 40 | A55 | 80 | 40 | A75 |
| | 64 | A56 | | 64 | A76 |
| | 100 | A57 | | 100 | A77 |
| | 160 | A58 | | 160 | A78 |
| | 250 | A59 | | 250 | A79 |
| | 400 | A60 | | 400 | A80 |

As Per ANSI B 16.5

| AS PER ANSI B 10.5 | | | | | |
|--------------------|------------------|------|-----------------|------------------|------|
| NOMINAL SIZE | RATING /CLASS | CODE | NOMINAL SIZE | RATING /CLASS | CODE |
| | 150 | B33 | | 150 | B45 |
| | 300 | B34 | | 300 | B46 |
| 1 ½" | 600 | B35 | 21/2" | 600 | B47 |
| | 900 | B36 | | 900 | B48 |
| | 1500 | B37 | | 1500 | B49 |
| | 2500 | B38 | | 2500 | B50 |
| | 150 | B39 | | 150 | B51 |
| 2" | 300 | B40 | 3" | 300 | B52 |
| | 600 | B41 | | 600 | B53 |
| | 900 | B42 | | 900 | B54 |
| | 1500 | B43 | | 1500 | B55 |
| | 2500 | B44 | | 2500 | B56 |

As Per DIN 2642

| DN | PN | CODE |
|----|----|------|
| 40 | 10 | A95 |
| 50 | | A96 |
| 65 | | A97 |
| 80 | | A98 |

As Per DIN 2635

| DN | PN | CODE |
|----|----|------|
| 40 | 40 | B05 |
| 50 | | B06 |
| 65 | | B07 |
| 80 | | B08 |

As Per BS - 10

| A3 1 61 D3 - 10 | | | |
|-----------------|-------|------|--|
| NOMINAL SIZE | TABLE | CODE | |
| | D | C09 | |
| | E | C10 | |
| 1½" | F | C11 | |
| | Н | C12 | |
| | J | C13 | |
| | K | C14 | |
| | D | C15 | |
| | E | C16 | |
| 2" | F | C17 | |
| | Н | C18 | |
| | J | C19 | |
| | K | C20 | |
| | | | |

| NOMINAL SIZE | TABLE | CODE |
|-----------------|-------|------|
| | D | C21 |
| | E | C22 |
| 21/2" | F | C23 |
| | Н | C24 |
| | J | C25 |
| | K | C26 |
| | D | C27 |
| | Е | C28 |
| 3" | F | C29 |
| | Н | C30 |
| | J | C31 |
| | K | C32 |

As Per DIN 2633

| DN | PN | CODE |
|----|----|------|
| 40 | 16 | A86 |
| 50 | | A87 |
| 65 | | A88 |
| 80 | | A89 |

As Per JIS - B 2210

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 5K | B72 |
| 40A | 10K | B73 |
| | 40K | B74 |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 5K | B75 |
| 50A | 10K | B76 |
| | 40K | B77 |
| | 5K | B78 |
| 65A | 10K | B79 |
| | 40K | B80 |
| | 5K | B81 |
| 80A | 10K | B82 |
| | 40K | B83 |



| How To Order | Example |
|--|---------|
| Basic Model | |
| Code | |
| Optional Extras | |
| [It is recommended that the MOC of Diaphragm & flange should be equivalent.] | |
| Seal Type | |
| S26 -1 to 0 kg/cm ² & 0 to 250 kg/cm ² (Non PTFE Lined) (Standard)* S27 -1 to 0 kg/cm ² & 0 to 40 kg/cm ² (PTFE Lined)* | XXX |
| * Range of selected instrument shall be suitable to flange pressure rating. | |
| Instrument Connection | |
| VM ½" NPT (F) VL ½" BSP (F)(Standard) VP 3/8" BSP (F) | XX |
| Top Chamber | |
| YA AISI 316L SS YC Carbon Steel | XX |
| XY AISI 316 SS XW AISI 304 SS (standard) | |
| Diaphragm (* For seal type S27 & Pressure Range 16 kg/cm² Max.) (# Range up to 21 kg/cm²) | |
| UQ Tantalum UP SILVER# KE PTFE* | XX |
| UL Hastelloy 'c' UM Monel UJ AISI 316L SS (Standard) | |
| Flange Material | |
| TKAISI 304 SSTNCarbon SteelUHTitaniumTMAISI 316 SS (standard)TLAISI 316L SSTXMonelTTHastelloy CUDTantalum | XX |
| Process Connection | |
| As Per DIN / BS / ANSI / JIS (select Code From Flange Table) | XXX |
| Protection On Wetted Parts | |
| VS PTFE Lining On Bottom Chamber - 2 mm Thick (Max. Up to 150 °C) | |
| VV PTFE Protection For Diaphragm (Max. Up to 150 °C) (Suitable for Pressure Ranges only) | XX |
| VZ PTFE Coating On Diaphragm (Max. Up to 315 °C) | |
| Filling Fluids (* Consult factory for specifications, price and delivery.) | |
| US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] | |
| UT Flurolube 6.3 [-40 to 235 °C] | VV |
| UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] UV Food Grade Oil [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] | XX |
| UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon Oil* | |
| Remote Mounting (With capillary of Max. Up to 6 Mtrs.) | |
| Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS) | 3Mtr. |
| Capillary | |
| PE AISI 304 SS PG AISI 316 SS | XX |
| Capillary Covered With Armour (applicable With PE Or PG If Selected) | |
| PF AISI 304 SS PH AISI 316 SS PI PVC (Ambient Temp. Max. 60°C) | XX |
| Options | |
| TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* | XX |
| TF Conformity as per NACE Standard | |
| * Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory. | |
| Refer Datasheet EE for selection of Flushing Rings. | |
| | |
| For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order. | |





- All SS 316 construction
- Deal for slurry / high viscous fluids
- Flange & diaphragm are available in various type of SS & exotic materials

Application

- 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

Specifications

Standard Version (Compatible Model: AL (NS 100 mm & 150 mm)

Note: Pressure gauge will be provided with internal system of NS 63 mm

Range : 1 kg/cm² to 250 kg/cm²*

Process temperature : -40°C to 200°C or as per fill fluid

Instrument connection : ½" BSP (F)

Process connection : Flange (Refer table)
Flange finish : Finish 125-250 AARH

* Range of selected instrument shall be suitable to flange pressure rating.

Diaphragm : AISI 316L SS
Body : AISI 316 SS
Flange : AISI 316 SS

Extension : 50 mm (other extension on request)

Fill fluid : Silicon Oil - DC 200

Range - Flange Table With Ordering Codes

How To Select

e.g. For flange size of 1 " as per BS-10 Table E with raised face : B97 - A2

A2 Raised Face

A3 Flat Face

Flange Finish shall be 125 - 250 AARH as a standard. For other finish, please consult factory.

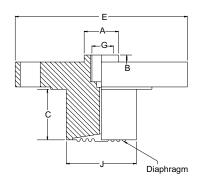
As Per ANSI B 16.5

| NOMINAL SIZE | RATING/ | CODE |
|-----------------|---------|------|
| SIZE | CLASS | |
| | 150 | B09 |
| | 300 | B10 |
| 1/2" | 600 | B11 |
| | 900 | B12 |
| | 1500 | B13 |
| | 2500 | B14 |
| | 150 | B21 |
| | 300 | B22 |
| 1" | 600 | B23 |
| | 900 | B24 |
| | 1500 | B25 |
| | 2500 | B26 |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 150 | B33 |
| | 300 | B34 |
| 11/2" | 600 | B35 |
| | 900 | B36 |
| | 1500 | B37 |
| | 2500 | B38 |
| | 150 | B39 |
| | 300 | B40 |
| 2" | 600 | B41 |
| | 900 | B42 |
| | 1500 | B43 |
| | 2500 | B44 |

| NOMINAL SIZE | RATING /CLASS | CODE |
|-----------------|------------------|------|
| | 150 | B45 |
| | 300 | B46 |
| 21/2" | 600 | B47 |
| | 900 | B48 |
| | 1500 | B49 |
| | 2500 | B50 |
| | 150 | B51 |
| | 300 | B52 |
| 3" | 600 | B53 |
| | 900 | B54 |
| | 1500 | B55 |
| | 2500 | B56 |

Dimensions - Standard Version



| Α | В | С | Е | G | J |
|----|---|-----|-----|-------------|-------|
| 30 | 8 | 50* | * * | 1/2" BSP(F) | * * * |

Notes: • Drawings are not to scale.

- · All Dimensions are in mm.
- * or as per customer requirement
- As per standard BLRF flange table ANSI, DIN, BS, JIS Etc.
- $40\,/\,53\,/\,63\,/\,70$ mm (suitable to range & as per flange pressure rating.)

| How To Order | Example |
|--|---------|
| Basic Model | |
| Code | |
| Optional Extras | |
| [It is recommended that the MOC of Diaphragm, Body & Flange should be equivalent.] | |
| Instrument Connection | |
| VM ½" NPT (F) VL ½" BSP (F) (Standard) VP 3/8" BSP (F) | XX |
| Diaphragm | |
| UJ AISI 316L SS (Standard) UM MONEL UL HASTELLOY 'C' | XX |
| Body | |
| CN Monel CO Hastelloy 'C' CM AISI 316L SS CL AISI 316 SS (Standard) | XX |
| Body Length (Standard: 50 mm & Max. Up to 200 mm) | |
| Specify IN mm (e.g. 50 mm, 100 mm, 150 mm & 200 mm) | 100 mm |
| Process Connection | |
| (select Code From Flange Table) | XXX |
| Flange Material | |
| TX Monel TT Hastelloy C TL AISI 316L SS TM AISI 316 SS (Standard) | XX |
| Filling Fluids (* Consult factory for specifications, price and delivery.) | |
| US Flurolube 4.2 [-45 to 175 °C] UY Silicon DC 704 [10 to 337 °C] | |
| UT Flurolube 6.3 [-40 to 235 °C] UZ Silicon DC 710 [7 to 371 °C] | |
| UU Flurolube FS-5 [-28 to 148 °C] VA Syltherm 800 [-40 to 315 °C] | XX |
| UV Food Grade Oil [-20 to 140 °C] VB Syltherm XLT [-100 to 260 °C] | |
| UX Silicon DC 200 [-40 to 205 °C] (Standard) VC Halocarbon Oil* | |
| Remote Mounting (With capillary of Max. Up to 6 Mtrs.) | |
| Specify In Meters (e.g. 1.5 = 1.5 Meters 2.0 = 2 Meters) | 3Mtr. |
| Capillary | |
| PE AISI 304 SS PG AISI 316 SS | XX |
| Capillary Covered With Armour (Applicable with PE or PG if selected) | |
| PF AISI 304 SS PI PVC (Ambient Temp. Max. 60°C) | XX |
| Options | |
| TB Helium Leak Test TC Dry Seal Only Without Instrument GH Material Test Certificates* | XX |

^{*} Material Test Certificates Will Be Provided For Wetted Parts Only With Chemical Composition Testing. For Others, Please Consult Factory.

For Other Optional Items, Please Contact Factory For Delivery And Minimum Quantity Of Order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.





- Laser welded diaphragm
- Suitable for slurry & high viscous service
- Easy to clean
- Flush fitment in pipeline
- Flushing ring, flange & diaphragm are available in various type of SS & exotic materials.

Application

- 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

Specifications

Standard Version

(Compatible models: AC, AE, AH, AI, AL & BE)

Range : 1 kg/cm² to 160 kg/cm²*

Process temperature : -40°C to 200°C or as per fill fluid

Instrument connection : 1/4" NPT (F)

Process connection : Flange (As per ANSI/BS/DIN/JIS), Suitable for 2" & above

Flange finish : Finish 125-250 AARH

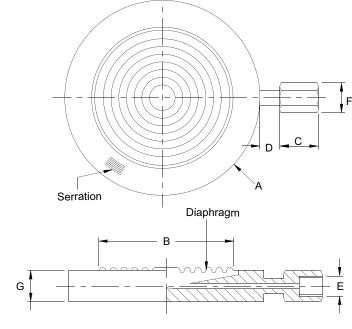
* Range of selected instrument shall be suitable to flange pressure rating.

 Diaphragm
 :
 AISI 316L SS

 Pan Cake Body / Flange
 :
 AISI 316 SS

 Fill Fluid
 :
 Silicon Oil - DC 200

Dimensions



| Α | В | С | D | E | F | G |
|-----|-----|----|---|-------------|---------|----|
| * * | *** | 20 | * | 1/4" NPT(F) | 17 HEX. | 22 |

- * To suit flange raised face
- * * 2" & above Flanges as per ANSI, BS, DIN, JIS etc.
- * * * Diaphragm size as per pressure range

Notes: • Drawings are not to scale.

• All Dimensions are in mm.



Range

Flange Conection Codes

| s Per I | DIN 2527 | | | | |
|---------|----------|------|----|-----|------|
| DN | PN | CODE | DN | PN | CODE |
| | 6 | A51 | | 6 | A71 |
| | 10 | A52 | | 10 | A72 |
| | 16 | A53 | | 16 | A73 |
| | 25 | A54 | 80 | 25 | A74 |
| 50 | 40 | A55 | | 40 | A75 |
| | 64 | A56 | | 64 | A76 |
| | 100 | A57 | | 100 | A77 |
| | 160 | A58 | 1 | 160 | A78 |
| | 250 | A59 | 1 | 250 | A79 |
| | 400 | A60 | 1 | 400 | A80 |

| As Per ANSI B 16.5 | | | | | | |
|--------------------|------------------|------|--|--|--|--|
| NOMINAL SIZE | RATING /CLASS | CODE | | | | |
| | 150 | B39 | | | | |
| | 300 | B40 | | | | |
| 2" | 600 | B41 | | | | |
| | 900 | B42 | | | | |
| | 1500 | B43 | | | | |
| | 2500 | B44 | | | | |
| | 150 | B51 | | | | |
| | 300 | B52 | | | | |
| 3" | 600 | B53 | | | | |
| | 900 | B54 | | | | |
| | 1500 | B55 | | | | |
| | 2500 | B56 | | | | |

| NOMINAL SIZE | TABLE | CODE |
|-----------------|-------|------|
| | D | C15 |
| | Е | C16 |
| 2" | F | C17 |
| | Н | C18 |
| | J | C19 |
| | K | C20 |
| | D | C27 |
| | Е | C28 |
| 3" | F | C29 |
| | Н | C30 |
| | J | C31 |
| | K | C32 |

| As Per JIS - B 2210 | | | | | | |
|---------------------|---|--|--|--|--|--|
| RATING /CLASS | CODE | | | | | |
| 5K | B75 | | | | | |
| 10K | B76 | | | | | |
| 40K | B77 | | | | | |
| 5K | B81 | | | | | |
| 10K | B82 | | | | | |
| 40K | B83 | | | | | |
| | RATING /CLASS 5K 10K 40K 5K 10K | | | | | |

| As Per DIN 2633 | | | | | | | |
|-----------------|------|-----|--|--|--|--|--|
| DN | CODE | | | | | | |
| 50 | 16 | A87 | | | | | |
| 80 | 10 | A89 | | | | | |

| As F | Per l | DIN 264 | 2 | As Per DIN 2635 | | | | |
|------|-------|---------|------|-----------------|----|------|--|--|
| DI | ١ | PN | CODE | DN | PN | CODE | | |
| 50 |) | 10 | A96 | 50 | 40 | B06 | | |
| 80 |) | 10 | A98 | 80 | 40 | B08 | | |

Raised face : A2 Flat face : A3

| How to | o Order | | | | | | | Example |
|-----------|--|----------|----------------------|------------|----------|----|-------------|---------|
| • | r flange size of 2" AS per BS-10 table E with ra | | | | | | | |
| Note : F | lange finish will be 125-250 AARH for other fir | nish, pl | ease specify in orde | er | | | | |
| Basic N | /lodel | | | | | | | DM |
| Code | | | | | | | | |
| Optiona | al Extras [It is recommended that the MOC | of diap | hragm should be | equivale | nt.] | | | |
| Diaphra | agm | | | | | | | |
| UJ | AISI 316L SS (Standard) | UL | Hastelloy 'C' | UR | Titanium | UW | Inconel 600 | |
| UM | Monel | UQ | Tantalum | UN | Nickel | | | XX |
| Pan Ca | ke Body / Flange (Suitable for 2" or 3" DIN/ | ANSI/E | BS/JIS Flanges) | | | | | |
| ZR | For 2" flange size - AISI 316L SS | | | | | | | |
| ZS | For 3" flange size - AISI 316L SS | | | | | | | \/\/ |
| KH | For 2" flange SIZE - Hastelloy C | | | | | | | XX |
| KI | For 3" flange SIZE - Hastelloy C | | | | | | | |
| Instrum | nent Connection | | | | | | | |
| VN | 1/4" BSP (F) | | | | | | | |
| VO | 1/4" NPT (F) (Standard) | | | | | | | XX |
| VP | 3/8" BSP (F) | | | | | | | |
| Flange | Material | | | | | | | |
| TM | AISI 316 SS (Standard) | | | | | | | |
| TL | AISI 316L SS | | | | | | | XX |
| TT | Hastelloy C | | | | | | | |
| Protect | ion On Wetted Parts | | | | | | | |
| VZ | PTFE coating on diaphragm (Max. up to 31 | 5 °C) | | | | | | XX |
| Filling f | fluids (* Consult factory for specifications, | price a | and delivery.) | | | | | |
| US | Flurolube 4.2 [-45 to 175 °C] | UY | Silicon DC 704 [| 10 to 337 | °C] | | | |
| UT | Flurolube 6.3 [-40 to 235 °C] | UZ | Silicon DC 710 [7 | 7 to 371 ° | C] | | | |
| UU | Flurolube FS-5 [-28 to 148 °C] | VA | Syltherm 800 [-4 | | | | | XX |
| UV | Food grade oil [-20 to 140 °C] | VB | Syltherm XLT [-1 | 00 to 260 | °C] | | | |
| UX | Silicon DC 200 [-40 to 205 °C] (Standard) | VC | Halocarbon oil* | | | | | |

| How t | o Order | Example | | | | | |
|---------|---|---------|--|--|--|--|--|
| | | | | | | | |
| Remot | e Mounting (With capillary of max. up to 2 mtrs.) | | | | | | |
| Specify | Specify in meters (e.g. 1.5 = 1.5 meters 2.0 = 2 meters) | | | | | | |
| Capilla | iry | | | | | | |
| PE | AISI 304 SS | XX | | | | | |
| PG | AISI 316 SS | ^^ | | | | | |
| Capilla | ry Covered with Armour (Applicable with PE or PG if selected) | | | | | | |
| PF | AISI 304 SS | | | | | | |
| PH | AISI 316 SS | XX | | | | | |
| PI | PVC (Ambient Temp. Max. 60°C) | | | | | | |
| Option | s | _ | | | | | |
| ТВ | Helium leak test | | | | | | |
| TC | Dry seal only without instrument | XX | | | | | |
| GH | Material test certificates* | | | | | | |

^{***}Material test certificates will be provided for wetted parts only with chemical composition testing.

For others, please consult factory.

Refer datasheet EE for selection of flushing rings

For other optional items, please contact factory for delivery and minimum quantity of order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



- Ideal for pulp industry
- Laser welded flush diaphragm
- Continuous duty
- Easy to clean
- Available with anti vibration spring (optional)

Application

- 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

Specifications

Standard Version

(Compatible models: AL(NS 100 mm & 150 mm)

Range : 1 kg/cm² to 40 kg/cm²

Process temperature : -40°C to 200°C or as per fill fluid

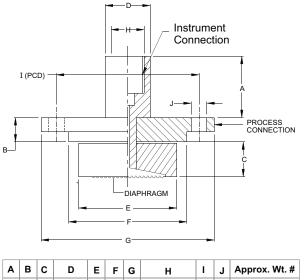
Instrument connection : ½" BSP (F)

Process connection : As per diagram below

Mounting : Direct (without spring & capillary)

Diaphragm : AISI 316L SS
Body & floating ring : AISI 316 SS
Fill fluid : Silicon oil - DC 200

Dimensions

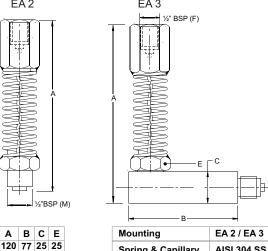


| 30 | 12 | 15 | 25 SQ | 48 | 58 | 85 | 1/2 "BSP (F) | 70 | 7 | 600.0 |
|---|----|----|-------|----|----|----|--------------|----|---|-------|
| (# \Mainbt in annual with box for atominal model) | | | | | | | | | | |

(# Weight in grams with box for standard model)

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

Accessory : Anti vibration spring EA 2 EA 3 EA 3



| Mounting | EA 2 / EA 3 |
|--------------------|-------------|
| Spring & Capillary | AISI 304 SS |
| Body & Connection | AISI 316 SS |

For other optional items, please contact factory for delivery and minimum quantity of order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.

Modifications may take place and materials specified may be replaced by others without prior notice.

^{***}Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.