

**DIAPHRAGM SEAL DIRECT FLANGED FLUSHED TYPE**

**DSFF**

**Applications :**

Diaphragm seals are provided in the instruments like Pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due To its corrosive, viscous and sedimented nature and to Avoid clogging and solidification. These kind of seals Are widely used in the viscous & corrosive services Where flushing is required periodically & frequently.

**Special Features :**

- ★ Welded Diaphragm
- ★ Flush Diaphragm Provided
- ★ Easy Flushing
- ★ Most Suitable For Slurry & Corrosive Service
- ★ Std version compatible with Delta model IP for NS 100 & 150mm

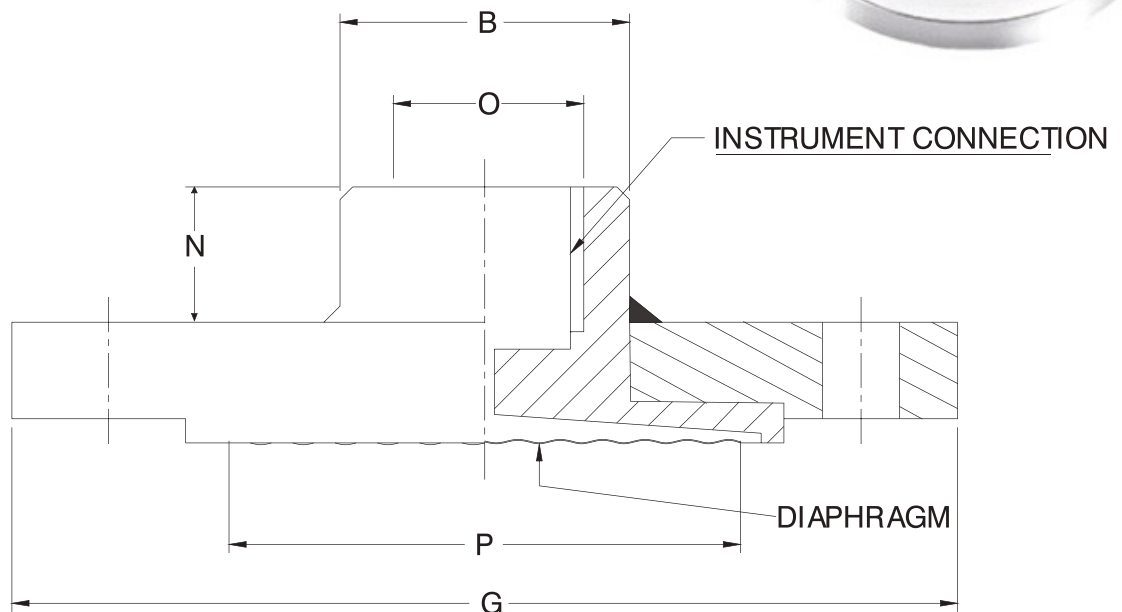
**Specifications**

(For Flange Size 1 1/4" And Above)

|                       |   |
|-----------------------|---|
| Range                 | -1 kg/cm <sup>2</sup> to 60 kg/cm <sup>2</sup>  |
| Process temperature   | -40°C to 200°C or as per fill fluid   |
| Instrument Connection | 1/4" BSP (F)  |
| Process Connection    | Flange(as per DIN/BS/ANSI/JIS)<br>Finish 125-250 AARH<br>32NB(1 1/4") to 80NB(3") (as required) |
| Diaphragm             | AISI 316L SS  |
| Seal Chamber          | AISI 316 SS   |
| Fill Fluid            | Silicon Oil - DC 200  |



Dimension :



| B  | G  | N  | O           | P   |
|----|----|----|-------------|-----|
| 30 | ** | 20 | 3/8" BSP(F) | *** |

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

All Dimensions are in mm, Drawings are not to scale

## FLANG CONNECTION CODE:

### AS PER DIN 2527

| DN | PN  | CODE |
|----|-----|------|
| 32 | 6   | A36  |
|    | 10  | A37  |
|    | 16  | A38  |
|    | 25  | A39  |
|    | 40  | A40  |
| 40 | 6   | A41  |
|    | 10  | A42  |
|    | 16  | A43  |
|    | 25  | A44  |
|    | 40  | A45  |
|    | 64  | A46  |
|    | 100 | A47  |
|    | 160 | A48  |
|    | 250 | A49  |
| 50 | 400 | A50  |
|    | 6   | A51  |
|    | 10  | A52  |
|    | 16  | A53  |
|    | 25  | A54  |
|    | 40  | A55  |
|    | 64  | A56  |
|    | 100 | A57  |
|    | 160 | A58  |
|    | 250 | A59  |
|    | 400 | A60  |

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

### AS PER ANSI B 16.5

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

| NOMINAL SIZE | RATING /CLASS | CODE |
|--------------|---------------|------|
| 2 1/2"       | 150           | B45  |
|              | 300           | B46  |
|              | 600           | B47  |
|              | 900           | B48  |
|              | 1500          | B49  |
|              | 2500          | B50  |
| 3"           | 150           | B51  |
|              | 300           | B52  |
|              | 600           | B53  |
|              | 900           | B54  |
|              | 1500          | B55  |
|              | 2500          | B56  |

### AS PER JIS - B 2210

| NOMINAL SIZE | RATING /CLASS | CODE |
|--------------|---------------|------|
| 32A          | 5K            | B69  |
|              | 10K           | B70  |
|              | 40K           | B71  |
| 40A          | 5K            | B72  |
|              | 10K           | B73  |
|              | 40K           | B74  |

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

### AS PER DIN 2642

| DN | PN | CODE |
|----|----|------|
| 32 | 10 | A94  |
| 40 |    | A95  |
| 50 |    | A96  |
| 65 |    | A97  |
| 80 |    | A98  |

### AS PER DIN 2633

| DN | PN | CODE |
|----|----|------|
| 32 | 16 | A85  |
| 40 |    | A86  |
| 50 |    | A87  |
| 65 |    | A88  |
| 80 |    | A89  |

### AS PER BS - 10-

| NOMINAL SIZE | TABLE | CODE |
|--------------|-------|------|
| 1 1/2"       | D     | C09  |
|              | E     | C10  |
|              | F     | C11  |
|              | H     | C12  |
|              | J     | C13  |
|              | K     | C14  |
| 2"           | D     | C15  |
|              | E     | C16  |
|              | F     | C17  |
|              | H     | C18  |
|              | J     | C19  |
|              | K     | C20  |

| NOMINAL SIZE | TABLE | CODE |
|--------------|-------|------|
| 2 1/2"       | D     | C21  |
|              | E     | C22  |
|              | F     | C23  |
|              | H     | C24  |
|              | J     | C25  |
|              | K     | C26  |
| 3"           | D     | C27  |
|              | E     | C28  |
|              | F     | C29  |
|              | H     | C30  |
|              | J     | C31  |
|              | K     | C32  |

### AS PER DIN 2635

| DN | PN | CODE |
|----|----|------|
| 32 | 40 | B04  |
| 40 |    | B05  |
| 50 |    | B06  |
| 65 |    | B07  |
| 80 |    | B08  |

## HOW TO ORDER

### OPTIONS:

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

DSFF

### DIAPHRAGM:

S6L AISI 316L SS

S6L

**RANGE TABLE**

Note: Delta offers National / International Scales like kPa, MPa, bar, psi,kg/cm<sup>2</sup> & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm<sup>2</sup> psi scales.

**PRESSURE RANGE**

**SINGLE SCALE - kg/cm<sup>2</sup>**

|       |              |              |             |              |
|-------|--------------|--------------|-------------|--------------|
| 0/0.6 | 0/1<br>0/1.6 | 0/2.5<br>0/4 | 0/6<br>0/10 | 0/16<br>0/25 |
|-------|--------------|--------------|-------------|--------------|

**DUAL SCALE (kg/cm<sup>2</sup> With PSI)**

| PSI  | kg/cm <sup>2</sup> | PSI   | kg/cm <sup>2</sup> | PSI   | kg/cm <sup>2</sup> |
|------|--------------------|-------|--------------------|-------|--------------------|
| 0/15 | 1                  | 0/60  | 4                  | 0/200 | 14                 |
| 0/30 | 2                  | 0/100 | 7                  | 0/300 | 21                 |
| 0/50 | 3.5                | 0/150 | 10                 | 0/350 | 25                 |

**VACUUM & COMPOUND RANGE**

**SINGLE SCALE - kg/cm<sup>2</sup>**

|        |        |      |      |      |
|--------|--------|------|------|------|
| -1/0.6 | -1/1.5 | -1/3 | -1/5 | -1/9 |
| -1/15  | -1/24  |      |      |      |

**DUAL SCALE**

| inHg with PSI | mmHg with kg/cm <sup>2</sup> | inHg with PSI | mmHg with kg/cm <sup>2</sup> | inHg with PSI | mmHg with kg/cm <sup>2</sup> |
|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|
| -30/0         | -760/0                       | -30/60        | -760/3                       | -30/200       | -760/15                      |
| -30/15        | -760/1                       | -30/100       | -760/6                       | -30/300       | -760/20                      |
| -30/30        | -760/2                       | -30/150       | -760/9                       | -30/340       | -760/24                      |

Notes: • Other Scale are available on customer request Please specify.

**ACCESSORIES †**

|                |            |
|----------------|------------|
| ET GAUGE COCK  | EG SNUBBER |
| * NEEDLE VALVE | EH SIPHON  |

† Refer Datasheet for complete specifications \* Refer catalogue for Valves & Manifolds

**INSTRUMENT CONNECTION:**

**15B**

|                |                 |                  |
|----------------|-----------------|------------------|
| 15B ½" BSP(F)  | 06B 1/4" BSP(F) | 06N 1/4" NPT (F) |
| 15N ½" NPT (F) | 10N 3/8" NPT(F) | 10B 3/8 BSP (F)  |

**PROCESS CONNECTION:**

**B33**

As Per Din / BS / ANSI/ JIS (Select Code From Table)

**FLUSHING RING:**

VF

- VG Flushing Ring With 1/2"NPT PLUG (AISI 304 SS)
- VE Flushing Ring With 1/4"NPT PLUG (AISI 304 SS)
- VD Flushing Ring With 1/2"NPT PLUG (AISI 316 SS)
- VF Flushing Ring With 1/4"NPT PLUG (AISI 316 SS) Std

**FILLING FLUIDS:**

US

- US FLUROLUBE 4.2 [-45 TO 175 °C / -49 TO 374° F]
- UT FLUROLUBE 6.3 [-40 TO 235 °C / -40 TO 455° F]
- UU FLUROLUBE FS5 [-40 TO 150°C / -40 TO 302°F]
- UV FLUROLUBE FS5 [-40 TO 150°C / -40 TO 302°F]
- UX SILICON DC 200-10CS [-40 TO 205°C / -40 TO 401F]
- UY SILICON DC 704 [0 TO 315°C / 32 TO 599° F]
- UZ FLUROLUBE 6.3 [-40 TO 235°C / -40 TO 455° F]

**PROTECTION ON WETTED PARTS**

VV

- VV PTFE Protection Ion for Diaphragm & Raised Face

**FLANGE MATERIAL:**

TN

- S4 AISI 304 SS      CS CARBON STEEL      TN TITANIUM
- S6L AISI 316L SS      ML MONEL      HC HASTELLOY C      S6 AISI 316 SS

TYPE:      A0 WITHOUT CAPILLARY

A1 WITH CAPILLARY

A1

CAPILLARY:      AISI 304 SS

PG      AISI 316 SS

PE

**CAPILLARY COVERED WITH ARMOUR:**


PF

AISI 304 SS      PH      AISI 316 SS      PI      PVC

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

1Mtr.

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

|   |   |
|---|---|
| Distributor<br><br><b>KB&amp;T</b><br><b>KB&amp; TRADERS</b> | 79/1, APS Complex, Iduvampalayam Road,<br>Periyandipalayam Tiruppur-641687, India<br>Mobile: 90477 77573, Tel : 0421 4955647<br>Email: sales@kbandtraders.com.<br>Web: www.kbandtraders.com |
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