

### DF

## Diaphragm Seals With Threaded Connection



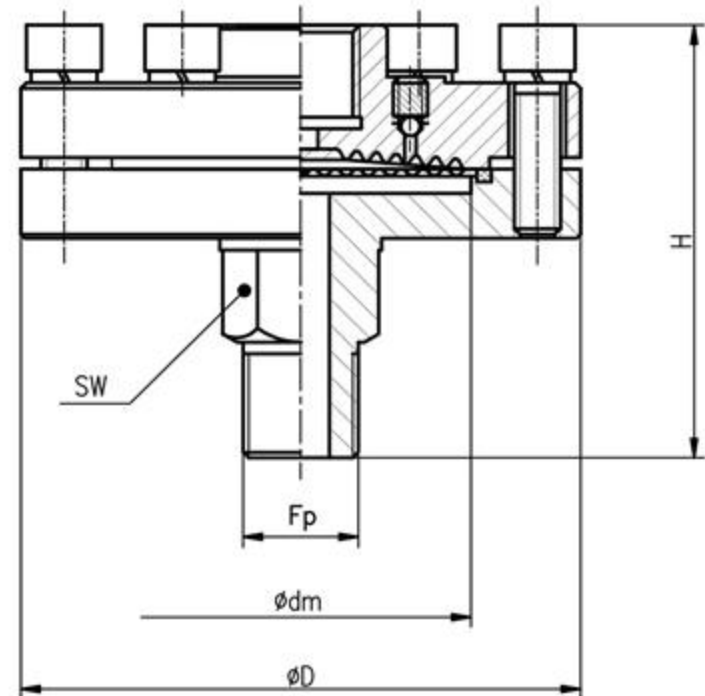
### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Wetted material: 304, 316, 316L ( or PTFE coated )
- ◆ Connection: other on request
- ◆ Filling liquid: As different media, optional fluorocarbon oil, -60...+120°C, Food oil, -20...+160°C

### Specifications

- ◆ Range: DFNH 0-2,5/0-250 Bar  
DFNM 0-40/0-250 Bar  
DFNS -1-0/0-60 Bar  
DFNG 0-100/0-400 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45...+150°C
- ◆ Diaphragm Material: 316L
- ◆ Wetted material: 316+BUNA
- ◆ Connection: Thread 1/2" NPT, R 1/2", M20x1.5
- ◆ Filling liquid: Silicone oil

### Dimensions (mm.)



| Type code | D    | dm | Fp/Fm            | H  | SW |
|-----------|------|----|------------------|----|----|
| 65 DFNH   | 61.5 | 42 | M20 X 1.5/NPT1/2 | 66 | 24 |
| 77 DFNM   | 77   | 42 | M20 X 1.5/NPT1/2 | 71 | 24 |
| 97 DFNS   | 97   | 61 | M20 X 1.5/NPT1/2 | 72 | 24 |
| 97 DFNG   | 97   | 30 | M20 X 1.5/NPT1/2 | 72 | 24 |

### DF1 I-Shape Flange



#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Wetted material: 316, 316L ( or PTFE)
- ◆ Connection: other on request
- ◆ Filling liquid: As different media, optional fluorocarbon oil, -60..+120°C, Food oil, -20..+160°C



#### Specifications

- ◆ Range: DFNS -1-0/0-60 Bar  
DFNG 0-100/0-400 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45..+220°C
- ◆ Diaphragm Material: 316L
- ◆ Wetted material: 304
- ◆ Filling liquid: Silicone oil

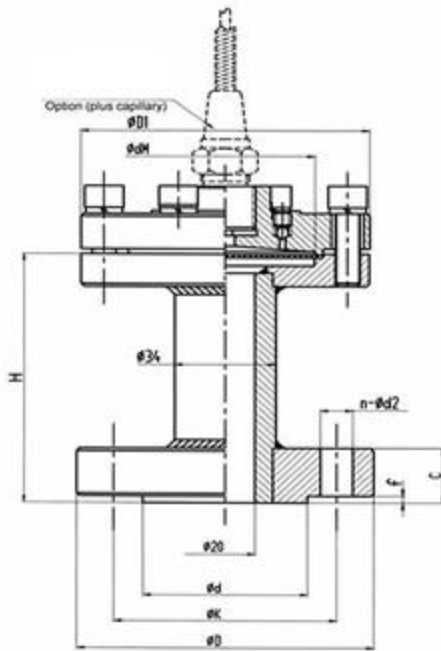


# Diaphragm Seals



## Dimensions (mm.)

### DF1 I-shape flange

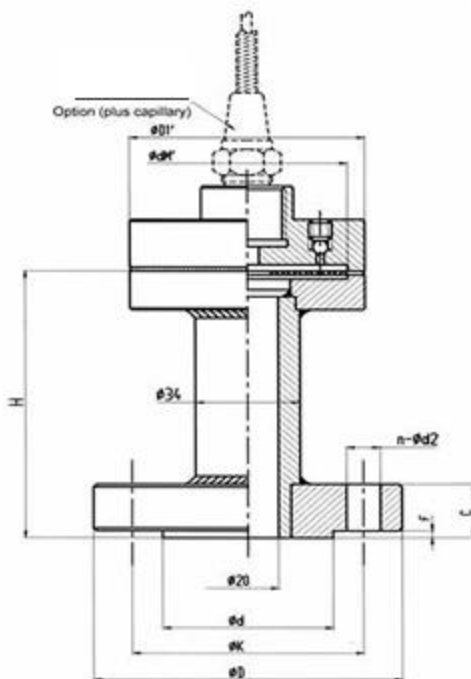


$\phi$  dM=56,  
 range: -1 ~ 0 / 0 ~ 40 Bar  
 $\phi$  dM=36,  
 range: 0 ~ 16 / 0 ~ 400 Bar

### Flange [DIN]

| DN<br>[mm] | PN<br>[bar] | (Flange)          |    |    |       |   |     |   | (Diaphragm Seals) |       |      |     |    |
|------------|-------------|-------------------|----|----|-------|---|-----|---|-------------------|-------|------|-----|----|
|            |             | DIMENSION<br>[mm] |    |    |       |   |     |   | D1                | dM    | D1'  | dM' | H  |
| 15         | 10/40       | 95                | 14 | 14 | 65    | 2 | 46  | 4 | 97                | 56    | 61.5 | 49  | 82 |
| 20         | 10/40       | 105               | 16 | 14 | 75    | 2 | 56  | 4 | 97                | 56    | 61.5 | 49  | 82 |
| 25         | 10/40       | 115               | 16 | 14 | 85    | 2 | 65  | 4 | 97                | 56    | 61.5 | 49  | 82 |
| 40         | 10/40       | 150               | 18 | 18 | 110   | 2 | 84  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|            | 63/100      | 170               | 26 | 22 | 125   | 2 | 84  | 4 | 77                | 36    | 45   | 30  | 82 |
|            | 160         | 170               | 36 | 22 | 125   | 2 | 84  | 4 | 77                | 36    | 45   | 30  | 82 |
|            | 260         | 180               | 39 | 29 | 124   | 7 | 73  | 4 | 77                | 36    | 45   | 30  | 82 |
| 50         | 420         | 205               | 52 | 32 | 146   | 7 | 73  | 4 | 77                | 36    | 45   | 30  | 82 |
|            | 10/40       | 165               | 20 | 18 | 125   | 2 | 99  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|            | 63          | 180               | 26 | 22 | 135   | 2 | 99  | 4 | 77                | 36    | 45   | 49  | 82 |
|            | 100         | 195               | 28 | 26 | 145   | 2 | 99  | 4 | 77                | 36    | 45   | 30  | 82 |
| 80         | 160         | 195               | 38 | 26 | 145   | 2 | 99  | 4 | 77                | 36    | 45   | 30  | 82 |
|            | 260         | 215               | 46 | 26 | 165   | 7 | 92  | 8 | 77                | 36    | 45   | 30  | 82 |
|            | 420         | 235               | 58 | 29 | 171.5 | 7 | 92  | 8 | 77                | 36    | 45   | 30  | 82 |
|            | 10/16       | 200               | 20 | 18 | 160   | 2 | 132 | 8 | 97                | 56    | 61.5 | 49  | 82 |
| 100        | 25/40       | 200               | 24 | 18 | 160   | 2 | 132 | 8 | 97                | 56    | 61.5 | 49  | 82 |
|            | 63          | 215               | 28 | 22 | 170   | 2 | 132 | 8 | 77                | 36    | 45   | 30  | 82 |
|            | 100         | 230               | 32 | 26 | 180   | 2 | 132 | 8 | 77                | 36/30 | 45   | 30  | 82 |
|            | 10/16       | 220               | 22 | 18 | 180   | 2 | 156 | 8 | 97                | 56    | 61.5 | 49  | 82 |
| 100        | 25/40       | 235               | 24 | 22 | 190   | 2 | 156 | 8 | 97                | 56    | 61.5 | 49  | 82 |
|            | 63          | 250               | 30 | 26 | 200   | 2 | 156 | 8 | 77                | 36    | 45   | 30  | 82 |
|            | 100         | 265               | 36 | 30 | 210   | 2 | 156 | 8 | 77                | 36/30 | 45   | 30  | 82 |

### Flange [ANSI B16.5]



$\phi$  dM=49,  
 range: -1 ~ 0 / 0 ~ 40 Bar  
 $\phi$  dM=30,  
 range: 0 ~ 16 / 0 ~ 400 Bar

| (Flange)     |             |                     |      |    |       |     |     |   | (Diaphragm Seals) |       |      |     |    |
|--------------|-------------|---------------------|------|----|-------|-----|-----|---|-------------------|-------|------|-----|----|
| DN<br>[ in ] | PN<br>[bar] | (DIMENSION)<br>[mm] |      |    |       |     |     |   | D1                | dM    | D1'  | dM' | H  |
|              |             | D                   | C    | d2 | K     | f   | d   | n |                   |       |      |     |    |
| 1/2          | 150         | 90                  | 14   | 16 | 60.5  | 1.6 | 35  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 95                  | 16   | 16 | 66.5  | 1.6 | 35  | 4 | 97                | 56    | 61.5 | 49  | 82 |
| 3/4          | 150         | 100                 | 16   | 16 | 70    | 1.6 | 43  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 120                 | 18   | 20 | 82.5  | 1.6 | 43  | 4 | 97                | 56    | 61.5 | 49  | 82 |
| 1            | 150         | 110                 | 16   | 16 | 79.5  | 1.6 | 51  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 125                 | 18   | 20 | 89    | 1.6 | 51  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 600         | 125                 | 24   | 20 | 89    | 6.4 | 51  | 4 | 77                | 36    | 45   | 30  | 82 |
|              | 900/1500    | 150                 | 37   | 26 | 101.5 | 6.4 | 51  | 4 | 77                | 36    | 45   | 30  | 82 |
| 1 1/2        | 150         | 130                 | 22   | 16 | 98.5  | 1.6 | 73  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 155                 | 22   | 22 | 114.5 | 1.6 | 73  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 600         | 155                 | 29.5 | 22 | 114.5 | 6.4 | 73  | 4 | 77                | 36    | 45   | 30  | 82 |
|              | 900/1500    | 180                 | 39   | 30 | 124   | 6.4 | 73  | 4 | 77                | 36    | 45   | 30  | 82 |
| 2            | 150         | 150                 | 20   | 20 | 120.5 | 1.6 | 92  | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 165                 | 22.5 | 20 | 127   | 1.6 | 92  | 8 | 97                | 56    | 61.5 | 49  | 82 |
|              | 600         | 165                 | 32   | 20 | 127   | 6.4 | 92  | 8 | 77                | 36    | 45   | 30  | 82 |
|              | 900/1500    | 215                 | 45   | 26 | 165   | 6.4 | 92  | 8 | 77                | 36    | 45   | 30  | 82 |
| 3            | 150         | 190                 | 24   | 20 | 152.5 | 1.6 | 127 | 4 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 210                 | 29   | 22 | 168.5 | 1.6 | 127 | 8 | 97                | 56    | 61.5 | 49  | 82 |
|              | 600         | 210                 | 38.5 | 22 | 168.5 | 6.4 | 127 | 8 | 77                | 36    | 45   | 30  | 82 |
|              | 900         | 240                 | 45   | 26 | 190.5 | 6.4 | 127 | 8 | 77                | 36    | 45   | 30  | 82 |
|              | 1500        | 270                 | 54.5 | 33 | 203   | 6.4 | 127 | 8 | 77                | 36/30 | 45   | 30  | 82 |
| 4            | 150         | 230                 | 24   | 20 | 190.5 | 1.6 | 158 | 8 | 97                | 56    | 61.5 | 49  | 82 |
|              | 300         | 255                 | 32   | 22 | 200   | 1.6 | 158 | 8 | 97                | 56    | 61.5 | 49  | 82 |
|              | 600         | 275                 | 45   | 26 | 200   | 6.4 | 158 | 8 | 77                | 36    | 45   | 30  | 82 |
|              | 900         | 295                 | 51   | 32 | 235   | 6.4 | 158 | 8 | 77                | 36    | 45   | 30  | 82 |
|              | 1500        | 310                 | 60.5 | 36 | 241.5 | 6.4 | 158 | 8 | 77                | 36/30 | 45   | 30  | 82 |

### DF2 Open Flange



#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Flange material: 316, 316L
- ◆ Instrument connection: other on request
- ◆ Filling liquid: As different media, optional fluorocarbon oil, -60...+120°C, Food oil, -20... +160°C
- ◆ Capillary: max length 10m, material 304 covered With 304 armour, other on request



#### Specifications

- ◆ Range: -1-0/0-160 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45...+150°C
- ◆ Diaphragm Material: 316L
- ◆ Flange material: 304
- ◆ Filling liquid: Silicone oil
- ◆ Flange standard: ANSI B 16.5  
DIN 2501

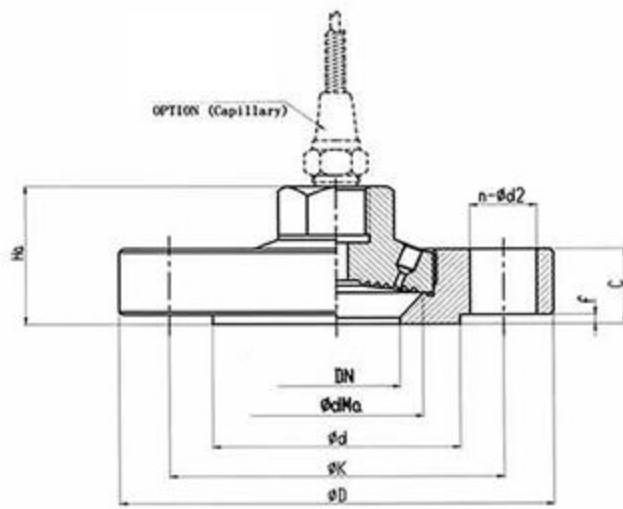


# Diaphragm Seals



## Dimensions (mm.)

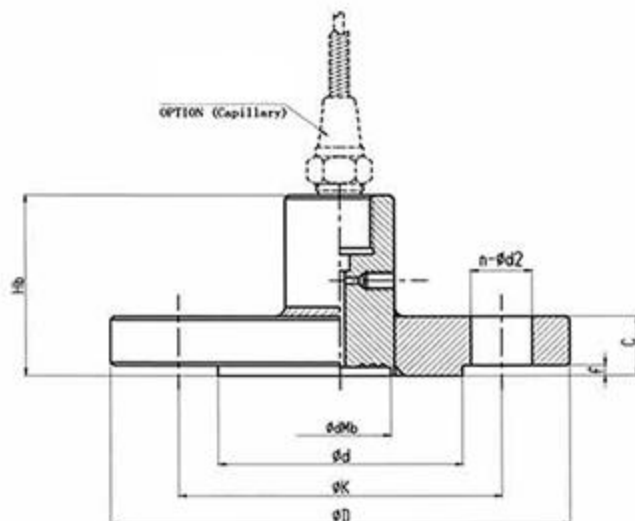
### DF2 flange



### [DIN]

| DN<br>[in.] | PN<br>[class] | (DIMENSION)<br>[mm] |    |    |       |   |     |   | A     |    | B   |    |
|-------------|---------------|---------------------|----|----|-------|---|-----|---|-------|----|-----|----|
|             |               | D                   | C  | d2 | K     | f | d   | n | dMa   | Ha | dMb | Hb |
| 15          | 10/40         | 95                  | 14 | 14 | 65    | 2 | 46  | 4 | -     | -  | 30  | 40 |
| 20          | 10/40         | 105                 | 16 | 14 | 75    | 2 | 56  | 4 | -     | -  | 30  | 40 |
| 25          | 10/40         | 115                 | 16 | 14 | 85    | 2 | 65  | 4 | 49    | 40 | 49  | 40 |
| 40          | 10/40         | 150                 | 18 | 18 | 110   | 2 | 84  | 4 | 49/75 | 40 | 49  | 40 |
|             | 63/100        | 170                 | 26 | 22 | 125   | 2 | 84  | 4 | 36    | 46 | 30  | 60 |
|             | 160           | 170                 | 36 | 22 | 125   | 2 | 84  | 4 | 36    | 56 | 30  | 75 |
|             | 260           | 180                 | 39 | 29 | 124   | 7 | 73  | 4 | 36    | 59 | 30  | 75 |
| 50          | 420           | 205                 | 52 | 32 | 146   | 7 | 73  | 4 | 36    | 72 | 30  | 85 |
|             | 10/40         | 165                 | 20 | 18 | 125   | 2 | 99  | 4 | 49/75 | 40 | 49  | 40 |
|             | 63            | 180                 | 26 | 22 | 135   | 2 | 99  | 4 | 36    | 46 | 30  | 60 |
|             | 100           | 195                 | 28 | 26 | 145   | 2 | 99  | 4 | 36    | 48 | 30  | 60 |
|             | 160           | 195                 | 38 | 26 | 145   | 2 | 99  | 4 | 36    | 58 | 30  | 75 |
| 80          | 260           | 215                 | 46 | 26 | 165   | 7 | 92  | 8 | 36    | 66 | 30  | 80 |
|             | 420           | 235                 | 58 | 29 | 171.5 | 7 | 92  | 8 | 36    | 78 | 30  | 85 |
|             | 10/16         | 200                 | 20 | 18 | 160   | 2 | 132 | 8 | 49/75 | 40 | 49  | 40 |
|             | 25/40         | 200                 | 24 | 18 | 160   | 2 | 132 | 8 | 49/75 | 44 | 49  | 40 |
|             | 63            | 215                 | 28 | 22 | 170   | 2 | 132 | 8 | 36    | 48 | 30  | 60 |
|             | 100           | 230                 | 32 | 26 | 180   | 2 | 132 | 8 | 36    | 52 | 30  | 60 |

### [ANSI B16.5]



| DN<br>[in.] | PN<br>[class] | (DIMENSION)<br>[mm] |      |    |       |     |     |   | A     |    | B   |    |
|-------------|---------------|---------------------|------|----|-------|-----|-----|---|-------|----|-----|----|
|             |               | D                   | C    | d2 | K     | f   | d   | n | dMa   | Ha | dMb | Hb |
| 1/2         | 150           | 90                  | 14   | 16 | 60.5  | 1.6 | 35  | 4 | -     | -  | -   | -  |
|             | 300           | 95                  | 16   | 16 | 66.5  | 1.6 | 35  | 4 | -     | -  | -   | -  |
| 3/4         | 150           | 100                 | 16   | 16 | 70    | 1.6 | 43  | 4 | -     | -  | 30  | 55 |
|             | 300           | 120                 | 18   | 20 | 82.5  | 1.6 | 43  | 4 | -     | -  | 30  | 55 |
| 1           | 150           | 110                 | 16   | 16 | 79.5  | 1.6 | 51  | 4 | 49    | 40 | 30  | 55 |
|             | 300           | 125                 | 18   | 20 | 89    | 1.6 | 51  | 4 | 49    | 40 | 30  | 55 |
|             | 600           | 125                 | 24   | 20 | 89    | 6.4 | 51  | 4 | 49    | 44 | 30  | 65 |
|             | 900/1500      | 150                 | 37   | 26 | 101.5 | 6.4 | 51  | 4 | 30    | 57 | 30  | 75 |
| 1 1/2       | 150           | 130                 | 22   | 16 | 98.5  | 1.6 | 73  | 4 | 49/56 | 42 | 49  | 60 |
|             | 300           | 155                 | 22   | 22 | 114.5 | 1.6 | 73  | 4 | 49    | 42 | 49  | 60 |
|             | 600           | 155                 | 29.5 | 22 | 114.5 | 6.4 | 73  | 4 | 49    | 50 | 49  | 70 |
|             | 900/1500      | 180                 | 39   | 30 | 124   | 6.4 | 73  | 4 | 49    | 59 | 49  | 75 |
| 2           | 150           | 150                 | 20   | 20 | 120.5 | 1.6 | 92  | 4 | 49/56 | 40 | 49  | 60 |
|             | 300           | 165                 | 22.5 | 20 | 127   | 1.6 | 92  | 8 | 49    | 43 | 49  | 60 |
|             | 600           | 165                 | 32   | 20 | 127   | 6.4 | 92  | 8 | 36    | 52 | 30  | 70 |
|             | 900/1500      | 215                 | 45   | 26 | 165   | 6.4 | 92  | 8 | 36    | 65 | 30  | 75 |
| 3           | 150           | 190                 | 24   | 20 | 152.5 | 1.6 | 127 | 4 | 49/56 | 44 | 49  | 70 |
|             | 300           | 210                 | 29   | 22 | 168.5 | 1.6 | 127 | 8 | 49/56 | 49 | 49  | 75 |
|             | 600           | 210                 | 38.5 | 22 | 168.5 | 6.4 | 127 | 8 | 36    | 59 | 30  | 85 |
|             | 900           | 240                 | 45   | 26 | 190.5 | 6.4 | 127 | 8 | 36    | 65 | 30  | 90 |
|             | 1500          | 270                 | 54.5 | 33 | 203   | 6.4 | 127 | 8 | 36    | 75 | 30  | 95 |
| 4           | 150           | 230                 | 24   | 20 | 190.5 | 1.6 | 158 | 8 | 49/56 | 44 | 49  | 70 |
|             | 300           | 255                 | 32   | 22 | 200   | 1.6 | 158 | 8 | 49/56 | 52 | 49  | 75 |
|             | 600           | 275                 | 45   | 26 | 200   | 6.4 | 158 | 8 | 36    | 65 | 30  | 85 |
|             | 900           | 295                 | 51   | 32 | 235   | 6.4 | 158 | 8 | 36    | 71 | 30  | 95 |
|             | 1500          | 310                 | 60.5 | 36 | 241.5 | 6.4 | 158 | 8 | 36    | 81 | 30  | 95 |

### DF4 Angle Adjustable



DF4A



DF4B

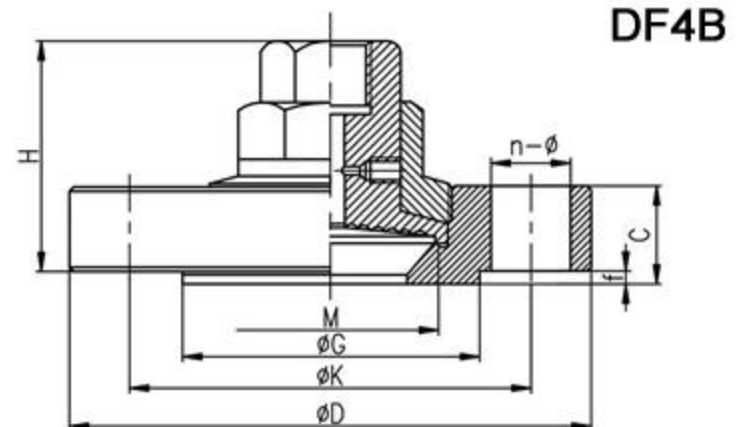
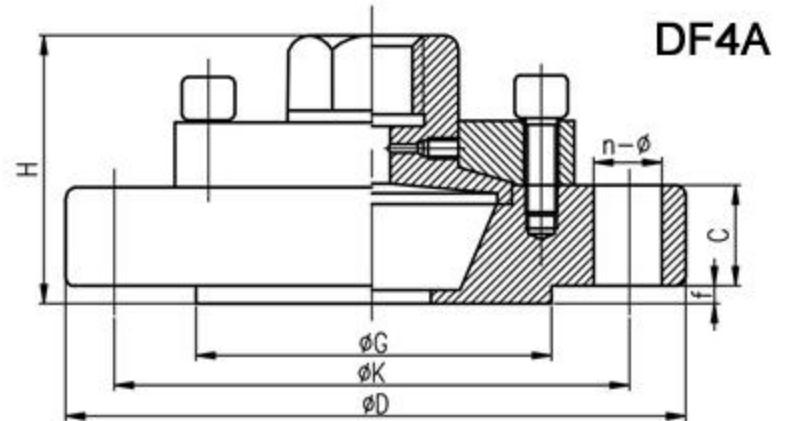
#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTEE coated
- ◆ Flange material: 316, 316L
- ◆ Instrument connection: other on request
- ◆ Filling liquid: As different media, optional Fluorocarbon oil, -60..+120°C, Food oil -20..+160°C
- ◆ Capillary: max length 10m, material 304 covered with 304 armour, other on request

#### Specifications

- ◆ Range: 0-0,3/0-400 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45..+150°C
- ◆ Diaphragm Material: 316L
- ◆ Flange material: 304
- ◆ Flange standard: ANSI B 16.5  
DIN 2501
- ◆ Filling liquid: Silicone oil

#### Dimensions (mm.)





### DF5-A Extended Diaphragm Seals With Flanged Connection



#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Flange material: 316, 316L
- ◆ Instrument connection: other on request
- ◆ Filling liquid: As different media, optional fluorocarbon oil, -60..+120°C, Food oil -20 ..+160°C
- ◆ Extension: other on request
- ◆ Capillary: max length 10m, material 304

#### Specifications

- ◆ Range: 0-0,6/0-400 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45..+150°C
- ◆ Diaphragm Material: 316L
- ◆ Flange material: 304
- ◆ Flange standard: ANSI B 16.5  
DIN 2501
- ◆ Extension: 0-300mm

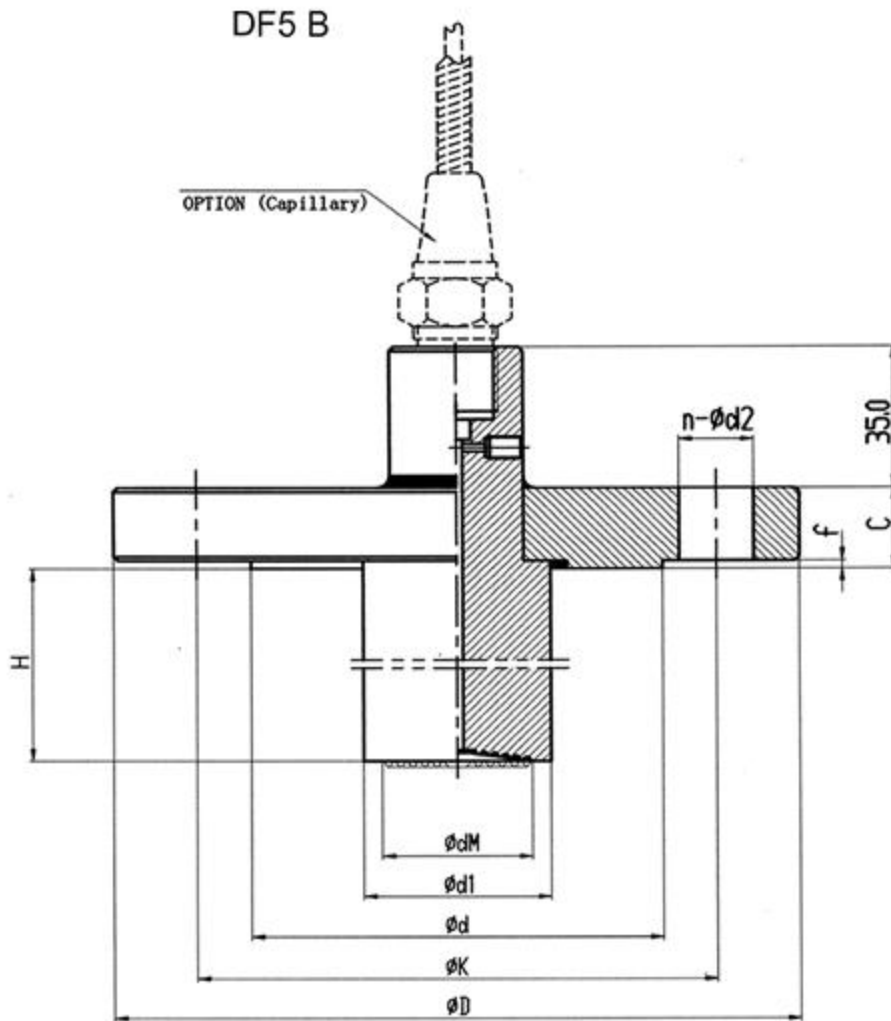
### DF5-B



# Diaphragm Seals

► **DF**

## Dimensions (mm.)



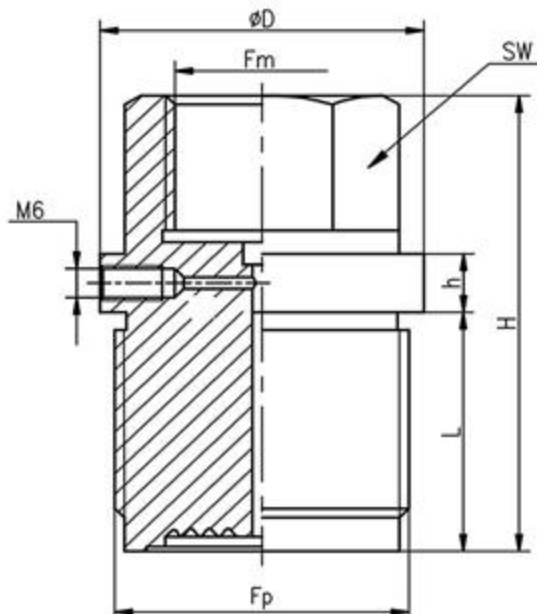
### Flange [ANSI B16.5]

| DN<br>[in] | PN<br>[bar] | (DIMENSION)<br>[mm] |      |    |       |     |     |   | dM | H      |
|------------|-------------|---------------------|------|----|-------|-----|-----|---|----|--------|
|            |             | D                   | C    | d2 | K     | f   | d   | n |    |        |
| 1 1/2      | 150         | 130                 | 22   | 16 | 98.5  | 2   | 73  | 4 | 30 | 10~150 |
|            | 300         | 155                 | 22   | 22 | 114.5 | 1.6 | 73  | 4 | 30 | 10~150 |
|            | 600         | 155                 | 29.5 | 22 | 114.5 | 6.4 | 73  | 4 | 30 | 10~150 |
|            | 900/1500    | 180                 | 39   | 30 | 124   | 6.4 | 73  | 4 | 19 | 10~150 |
| 2          | 150         | 150                 | 20   | 20 | 120.5 | 1.6 | 92  | 4 | 36 | 10~150 |
|            | 300         | 165                 | 22.5 | 20 | 127   | 1.6 | 92  | 8 | 36 | 10~150 |
|            | 600         | 165                 | 32   | 20 | 127   | 6.4 | 92  | 8 | 30 | 10~150 |
|            | 900/1500    | 215                 | 45   | 26 | 165   | 6.4 | 92  | 8 | 19 | 10~150 |
| 3          | 150         | 190                 | 24   | 20 | 152.5 | 1.6 | 127 | 4 | 49 | 10~150 |
|            | 300         | 210                 | 29   | 22 | 168.5 | 1.6 | 127 | 8 | 36 | 10~150 |
|            | 600         | 210                 | 38.5 | 22 | 168.5 | 6.4 | 127 | 8 | 30 | 10~150 |
|            | 900         | 240                 | 45   | 26 | 190.5 | 6.4 | 127 | 8 | 19 | 10~150 |
|            | 1500        | 270                 | 54.5 | 33 | 203   | 6.4 | 127 | 8 | 19 | 10~150 |
|            | 2500        | 305                 | 72.5 | 36 | 228.5 | 6.4 | 127 | 8 | 19 | 10~150 |

### Flange (DIN)

| DN<br>[mm] | PN<br>[bar] | (DIMENSION)<br>[mm] |    |    |     |   |     |   | dM    | H      |
|------------|-------------|---------------------|----|----|-----|---|-----|---|-------|--------|
|            |             | D                   | C  | d2 | K   | f | d   | n |       |        |
| 40         | 10/40       | 150                 | 18 | 18 | 110 | 2 | 84  | 4 | 30    | 10~150 |
|            | 63/100      | 170                 | 26 | 22 | 125 | 2 | 84  | 4 | 30/19 | 10~150 |
| 50         | 10/40       | 165                 | 20 | 18 | 125 | 2 | 99  | 4 | 36/30 | 10~150 |
|            | 63          | 180                 | 26 | 22 | 135 | 2 | 99  | 4 | 19    | 10~150 |
|            | 100         | 195                 | 28 | 26 | 145 | 2 | 99  | 4 | 19    | 10~150 |
| 80         | 10/16       | 200                 | 20 | 18 | 160 | 2 | 132 | 8 | 49    | 10~150 |
|            | 25/40       | 200                 | 24 | 18 | 160 | 2 | 132 | 8 | 36/30 | 10~150 |
|            | 63          | 215                 | 28 | 22 | 170 | 2 | 132 | 8 | 19    | 10~150 |
|            | 100         | 230                 | 32 | 26 | 180 | 2 | 132 | 8 | 19    | 10~150 |

### DF5A DN ≥ 40 DN ≥ 2"



| Fp      | D  | H  | h  | L  | SW |
|---------|----|----|----|----|----|
| G1 1/2" | 70 | 80 | 10 | 50 | 32 |
| G1 1/4" | 52 | 70 | 10 | 45 | 32 |
| G1"     | 44 | 70 | 10 | 35 | 32 |
| G3/4"   | 42 | 55 | 10 | 25 | 32 |



### DF6 Sanitary diaphragm seals



#### Special items

- ◆ High temperature: Max 180°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Wetted material: 316, 316L
- ◆ Gauge Connection: Thread M20\*1.5, 1/2" NPT
- ◆ Filling liquid: As different media, optional Fluorocarbon oil, -60...+120°C, Food oil -20...+160°C
- ◆ Process connection: please refer to next page

### DF7

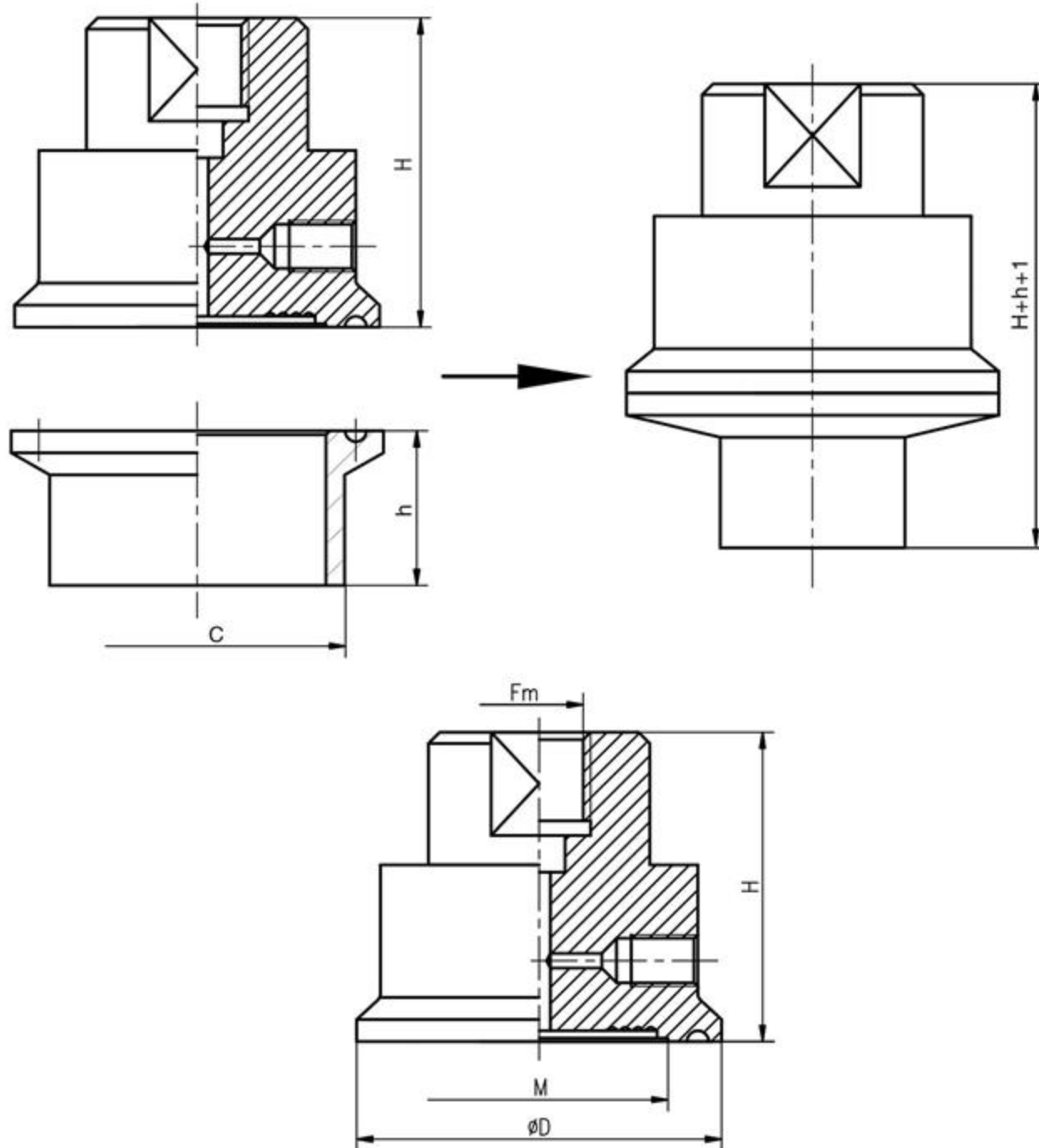


#### Specifications

- ◆ Range: F6: 1-0/0-16 Bar  
F7: 1-0/0-40 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45...+150°C
- ◆ Diaphragm Material: 316L
- ◆ Wetted material: 316+Silicone gasket
- ◆ Gauge Connection: Thread M20\*1.5, 1/2" NPT
- ◆ Filling liquid: Glycerine oil
- ◆ Process connection: please refer to next page

### Dimensions (mm.)

DF6



| DN   | D    | H    | h  | C    | M    |
|------|------|------|----|------|------|
| 1"   | 50.5 | 42.5 | 21 | 25.4 | 35.5 |
| 1.5" | 50.5 | 42.5 | 21 | 38.1 | 35.5 |
| 2"   | 64   | 42.5 | 21 | 50.8 | 35.5 |
| 2.5" | 77.5 | 42.5 | 21 | 63.5 | 58   |

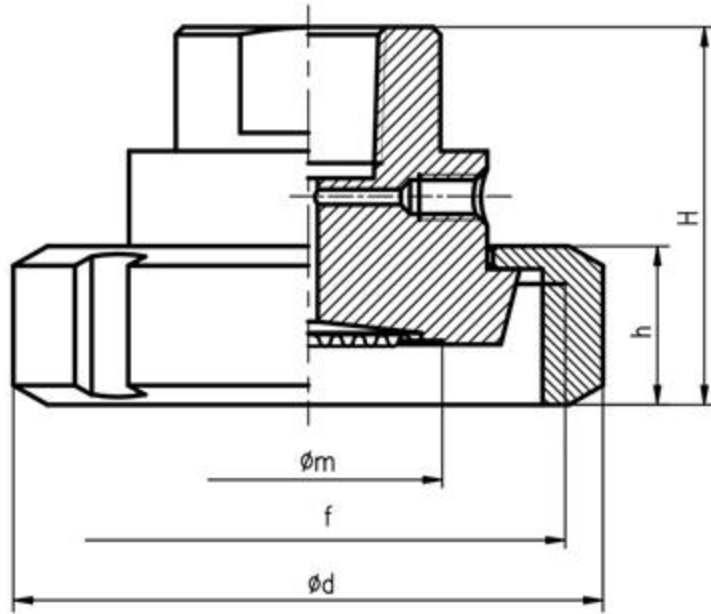


# Diaphragm Seals



## Dimensions (mm.)

DF7

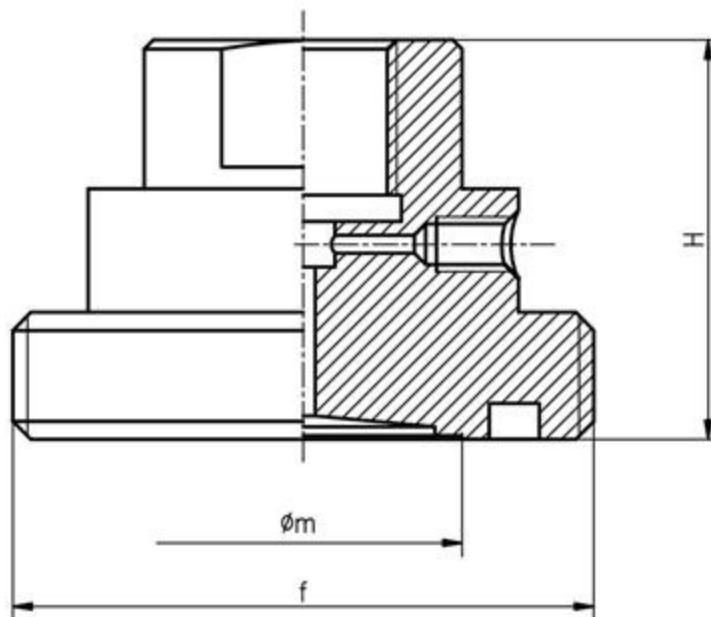


DIN 11851

| DN | H  | h  | d   | m  | f          |
|----|----|----|-----|----|------------|
| 25 | 44 | 21 | 63  | 35 | Rd52 × 1/6 |
| 32 | 49 | 21 | 68  | 35 | Rd58 × 1/6 |
| 40 | 49 | 21 | 76  | 42 | Rd65 × 1/6 |
| 50 | 50 | 22 | 90  | 50 | Rd78 × 1/6 |
| 65 | 52 | 24 | 110 | 58 | Rd95 × 1/6 |

SMS 681

| DN   | H  | h  | d  | m  | f          |
|------|----|----|----|----|------------|
| 1.5" | 51 | 23 | 72 | 35 | Rd60 × 1/6 |
| 2"   | 51 | 23 | 82 | 50 | Rd70 × 1/6 |
| 2.5" | 51 | 25 | 98 | 58 | Rd85 × 1/6 |



DIN 11851

| DN | H  | m  | f          |
|----|----|----|------------|
| 25 | 46 | 35 | Rd52 × 1/6 |
| 32 | 46 | 35 | Rd58 × 1/6 |
| 40 | 46 | 35 | Rd65 × 1/6 |
| 50 | 46 | 42 | Rd78 × 1/6 |
| 65 | 46 | 58 | Rd95 × 1/6 |

SMS 681

| DN   | H  | m  | f          |
|------|----|----|------------|
| 1.5" | 46 | 35 | Rd60 × 1/6 |
| 2"   | 46 | 42 | Rd70 × 1/6 |
| 2.5" | 46 | 42 | Rd85 × 1/6 |

### DF8 Welded One-piece Diaphragm Seals



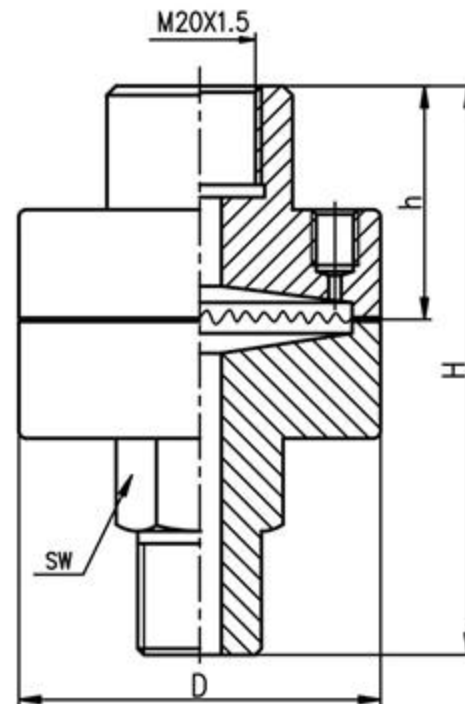
#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Monel
- ◆ Body material: 316, 316L
- ◆ connection: other on request
- ◆ Filling liquid: As different media, optional fluorocarbon oil, -60...+120°C, Food oil -20...+160°C

#### Specifications

- ◆ Range: DAMH 0-6/0-600 Bar  
DAMM 0-4/0-600 Bar  
DAMS 0-16/0-600 Bar  
DAMG 0-1/0-160 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45...+150°C
- ◆ Diaphragm Material: 316L
- ◆ Body material: 304
- ◆ Connection: Thread 1/2" NPT, R 1/2", M20x1.5
- ◆ Filling liquid: Silicone oil

#### Dimensions (mm.)



| Type      | D    | H  | h  | SW |
|-----------|------|----|----|----|
| Φ 34 DAMH | 34   | 54 | 30 | 24 |
| Φ 58 DAMM | 57.1 | 74 | 47 | 24 |
| Φ 62 DAMS | 62   | 87 | 47 | 24 |
| Φ 88 DAMG | 82   | 84 | 47 | 24 |



### DF10 In Line Diaphragm Seals



#### Special items

- ◆ High temperature: Max 240°C
- ◆ Diaphragm material: Hastelloy C, Tantalum, Titanium, Monel, 316L PTFE coated
- ◆ Instrument connection: other on request
- ◆ Process connection: Flanged connection
- ◆ Filling liquid: As different media, optional fluorocarbon oil , -60..+220°C, Food oil -20 .. +160°C
- ◆ Capillary: Maximum length 10m, material 304 covered with 304 armour, other on request
- ◆ Hold temperature: Threaded connection, Thread can be made on request

#### Specifications

- ◆ Range: 0-0,6/0-250 Bar
- ◆ Accuracy:  $\pm 1.6\%$
- ◆ Working Temperature: -45..+150°C
- ◆ Diaphragm Material: 316L
- ◆ Wetted material: 304
- ◆ Process connection: welded
- ◆ Standard: ANSI B36.1  
DIN248
- ◆ Filling liquid: Silicone oil

#### Dimensions (mm.)

