

## Diaphragm seal Flush diaphragm, sanitary type



### Features:

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

### Applications:

- 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.

### Standard Parameters

Range	: Refer range table with nominal sizes
Process temperature	: 10°C to 150°C or as per fill fluid
Instrument connection	: 1/2" BSP[F]
Process connection	: As per DIN 11851, SMS, RJT, IDF
Mounting	: Direct (without capillary)

### Materials of Construction

Diaphragm	: AISI 316L SS
Unit nut	: AISI 316 SS
Body	: AISI 316 SS
Fill fluid	: Glycerine

### Dimensional drawing

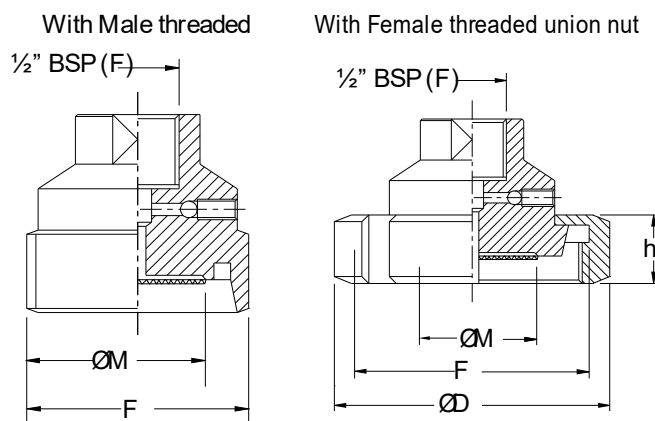
DIN 11851		
DN	M	F (DIN 405)
25*	20	Rd 52 x 1/6
32	30	Rd 58 x 1/6
40	30	Rd 65 x 1/6
50	40	Rd 78 x 1/6

\*Connection 1/4" BSP (F)

SMS		
DN	M	F (DIN 405)
1 1/2"	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 (Whitworth)
1 1/2"	29	2" 1/32 x 8
2"	36	2" 9/16 x 8



DIN 11851				
DN	h	D	M	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)
1 1/2"	25	74	30	Rd 60 x 1/6
2"	26	84	40	Rd 70 x 1/6

RJT/APV				
DN	h	D	M	F (Whitworth)
1 1/2"	22	Hex. 65	30	2" 5/16 x 8
2"	22	Hex. 79	40	2" 7/8 x 6

IDF/ISS				
DN	h	D	M	F (Whitworth)
1 1/2"	30	64	30	2" 1/32 x 8
2"	30	77	40	2" 9/16 x 8

Note: ● Drawings are not to scale ● All dimensions are in mm

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	✓	✓	✓	✓
2	✓	✓	✓	✓
4	✓	✓	✓	✓
7	✓	✓	✓	✓
10	✓	✓	✓	✓
14	✓	✓	✓	✓
16	✓	✓	✓	✓
21	✓	✓	✓	✓
25	X	X	✓	✓
28	X	X	✓	✓
40	X	X	✓	✓
-1 to 4	X	✓	✓	✓
-1 to 7	X	✓	✓	✓
-1 to 10	X	✓	✓	✓
-1 to 14	X	✓	✓	✓
-1 to 21	X	✓	✓	✓

### Ordering Codes

<b>1. Process Connection Type</b>		<b>M</b>	<b>8. Bottom Mating Part (male or female)</b>		<b>MD25</b>	
<b>M</b>	With male threaded connection		<b>MD</b>	Male - DIN (25, 32, 40 or 50mm)		
<b>F</b>	With Female threaded Union Nut	<b>D25</b>	<b>MS</b>	Male - SMS (1½" or 2")		
<b>2. Process Connection Standard &amp; Size</b>			<b>MR</b>	Male - RJT/APV (1½" or 2")		
<b>D</b>	DIN (25, 32, 40 or 50mm)		<b>MI</b>	Male - IDF/ISS (1½" or 2")		
<b>S</b>	SMS (1½" or 2")		<b>FD</b>	Female - DIN (25, 32, 40 or 50mm)		
<b>R</b>	RJIT/APS (1½" or 2")		<b>FS</b>	Female - SMS (1½" or 2")		
<b>I</b>	IDF/ISS (1½" or 2")		<b>FR</b>	Female - RJT/APV (1½" or 2")		
Example: D25 or S1½"			<b>FI</b>	Female - IDF/ISS (1½" or 2")		
<b>3. Instrument Connection</b>		<b>15BF</b>	<b>9. Remote Mounting*</b>		<b>2Mtr</b>	
<b>06BF</b>	1/4" BSP[F]#		Specify in Meters			
<b>06NF</b>	1/4" NPT[F]		*With capillary of max up to 2 Meters			
<b>15BF</b>	1/2" BSP[F] (Standard)		<b>10. Capillary</b>			
<b>15NF</b>	1/2" NPT[F]		<b>S4</b>	AISI 304 SS		
#Standard for DIN 25 & NS 50 & 63mm		<b>S6L</b>	<b>S6</b>	AISI 316 SS	<b>S4</b>	
<b>4. Diaphragm</b>			<b>11. Capillary covered with armour*</b>			
<b>S6L</b>	AISI 316L SS (Standard)	<b>FG</b>	<b>S4</b>	AISI 304 SS	<b>S4</b>	
<b>5. Filling fluid</b>			<b>S6</b>	AISI 316 SS		
<b>LG</b>	Glycerine [10°C to 150°C]		<b>PV</b>	PVC (Ambient Temp. Max. 60°C)		
<b>FG</b>	Food grade oil [-20°C to 140°C]		*Applicable with capillary option if applied			
<b>LP</b>	Liquid Paraffin [10 to 200°C]	<b>S6</b>	<b>12. Other Options</b>		<b>MT</b>	
<b>6. Body</b>			<b>HL</b>	Helium leak test		
<b>S6</b>	AISI 316 SS (Standard)		<b>WI</b>	Dry Seal Only Without Instrument		
<b>S6L</b>	ASI 316L SS	<b>SI</b>	<b>MT</b>	Material Test Certificates*		
<b>7. Gasket Material</b>			*Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.			
<b>SI</b>	Silicon					
<b>PT</b>	PTFE					

Ordering example: FS-M-D25-15BF-S6L-FG-S6-SI-MD25-2MTR-S4-S4-MT

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.