

Diaphragm seal

Direct flanged flushed type



Features:

- 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 and exotic materials

Applications:

- Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the element from the main service due to its corrosive viscous and sedimented nature and to avoid clogging and solidification. These kinds of seals are widely used in the viscous & corrosive services where flushing is required frequently.

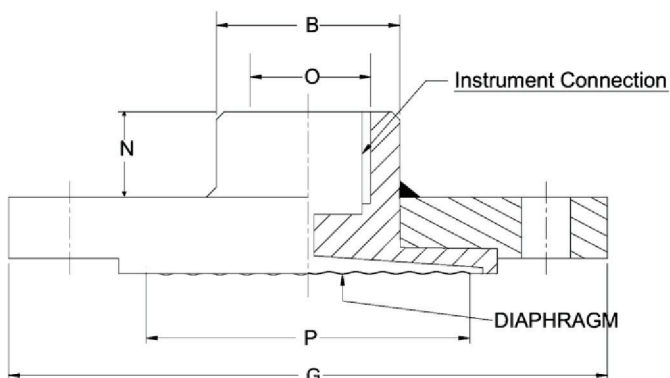
Standard Parameters

Range	: S06 = -1 to 0 kg/cm ² & 0 to 250 kg/cm ²
Process temperature	: - 40 °C to 200 °C or as per fill fluid
Instrument connection	: 1/2" BSP[F]
Process connection	: Flange (As per DIN/BS/ANSI/JIS), 40NB(1½") & above
Flange finish	: 125-250 AARH

Materials of Construction

Diaphragm	: AISI 316L SS
Flange	: AISI 316 SS
Fill fluid	: Silicon oil – DC 200
Gasket	: PTFE

Dimensional drawing



B	G	N	O	P
30	**	20	1/2"BSP[F]	***

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

**As per standard flange table ANSI, DIN, BS, JIS Etc.,
***40/53/63/70 mm Dia to suit flange.

How to select

E.g. for flange size of 1 1/2" as per BS-10 table E with raised face: C10-A2

A2 Raised face **A3** Flat face

As per DIN 2527

DN	PN	CODE	DN	PN	CODE
40	6	A41	65	6	A61
	10	A42		10	A62
	16	A43		16	A63
	25	A44		25	A64
	40	A45		40	A65
	64	A46		64	A66
	100	A47		100	A67
	160	A48		160	A68
	250	A49		250	A69
400	A50	400	A70		
50	6	A51	80	6	A71
	10	A52		10	A72
	16	A53		16	A73
	25	A54		25	A74
	40	A55		40	A75
	64	A56		64	A76
	100	A57		100	A77
	160	A58		160	A78
	250	A59		250	A79
	400	60		400	A80

As per DIN 2642

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

As per DIN 2633

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

As per DIN 2635

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

As per JIS-B 2210

Nominal Size	Rating/Class	CODE
40A	5K	B72
	10K	B73
	40K	B74
50A	5K	B75
	10K	B76
	40K	B77
65A	5K	B78
	10K	B79
	40K	B80
80A	5K	B81
	10K	B82
	40K	B83

As per ANSI B 16.5

Nominal Size	Rating/Class	CODE	Nominal Size	Rating/Class	CODE
1 1/2"	150	B33	2 1/2"	150	B45
	300	B34		300	B46
	600	B35		600	B47
	900	B36		900	B48
	1500	B37		1500	B49
	2500	B38		2500	B50
2"	150	B39	3"	150	B51
	300	B40		300	B52
	600	B41		600	B53
	900	B42		900	B54
	1500	B43		1500	B55
	2500	B44		2500	B56

As per BS-10

Nominal Size	Table	CODE
1 1/2"	D	C09
	E	C10
	F	C11
	H	C12
	J	C13
	K	C14
	D	C15
2"	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

Ordering codes

1. Instrument Connection		15BF	6. Filling fluid		FG
10BF	3/8" BSP [F]		S1	Silicon DC 200 [-40 to 205°C]	
15BF	1/2" BSP [F](Standard)		S2	Silicon DC 704 [10 to 337°C]	
15NF	1/2" NPT [F]		S3	Silicon DC 710 [7 to 371°C]	
*(Select this option when dry seal is required)			FG	Food Grade Oil [-20 to 140°C]	
2. Diaphragm		S6	7. Remote Mounting*		3Mtr
S6L	AISI 316L SS (Standard)		Specify in Meters		
MO	MONEL		*with capillary of max up to 6 Meters		
HC	Hastelloy 'C'		8. Capillary		S4
TI	Titanium		S4	AISI 304 SS	
TN	Tantalum		S6	AISI 316 SS	
(Range up to 21Kg/cm ²)			9. Capillary covered with armour		S4
3. Flange Material		S6	S4	AISI 304 SS	
S4	AISI 304 SS		S6	AISI 316 SS	
S6	AISI 316 SS (Standard)		PV	PVC (Ambient Temp. Max. 60°C)	
S6L	AISI 316L SS		*Applicable with Capillary option if selected.		
TN	Tantalum		13. Other Options		MT
TI	Titanium		HL	Helium leak test	
HC	Hastelloy 'C'		WI	Dry Seal Only Without Instrument	
MO	MONEL		MT	Material Test Certificates*	
CS	Carbon steel		*Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.		
4. Process Connection		C10			
As Per DIN / BS / ANSI / JIS (Select Code from Flange Table)					
5. Protection on wetted parts		PT			
PT	PTFE Protection for Diaphragm (Max. Up to 150 °C) (Suitable for Pressure Ranges only)				
PC	PTFE Coating on Diaphragm (Max. Up to 315 °C)				

Ordering example: FF-15BF-S6-S6-C10-PT-FG-3MTR-S4-S4-MT

Compatible models: IP, IE

Note:

1. It is recommended that the MOC of the diaphragm be equivalent or superior than the MOC of the bottom chamber.
2. 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.