



Special Features

- 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



GOST

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/cm ² & 0 to 70 kg/cm ² (Standard)
	: S22 = 100 kg/cm ² to 400 kg/cm ²
	: S23= -1 to 0 kg/cm ² & 0 to 70 kg/cm ²
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

TYPE "S21"- STANDARD VERSION							TYPE "S22"							TYPE "S23"									
Seal Type	Ranges	A	~ B	~ C	E	H	G	Seal Type	Ranges	A	~ B	~ C	E	H	G	Seal Type	Ranges	A	~ B	~ C	E	H	G
S21	-1 to 0 kg/cm ² 0 to 70 kg/cm ²	30	31	75	*	98	½" BSP (F)	S22	100 to 400 kg/cm ²	30	44	50	*	110	½" BSP (F)	S23	-1 to 0 kg/cm ² 0 to 70 kg/cm ²	30	31	75	*	98	½" BSP (F)

* As per standard flange table ANSI, DIN, BS, JIS Etc., Notes : • Drawings are not to scale. • All Dimensions are in mm.

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

As Per DIN 2633

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

As Per DIN 2635

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

As Per DIN 2642

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

As Per ANSI B 16.5

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

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

As Per JIS - B 2210

NOMINAL SIZE	RATING /CLASS	CODE
10A	5K	B57
	10K	B58
	40K	B59
15A	5K	B60
	10K	B61
	40K	B62
20A	5K	B63
	10K	B64
	40K	B65
25A	5K	B66
	10K	B67
	40K	B68

As Per BS - 10

NOMINAL SIZE	TABLE	CODE
1/2"	D	B84
	E	B85
	F	B86
	H	B87
	J	B88
3/4"	K	B89
	D	B90
	E	B91
	F	B92
	H	B93
1"	J	B94
	K	B95

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

How To Order		Example																																		
Basic Model		DI																																		
Code																																				
Optional Extras																																				
[It is recommended that the MOC of Diaphragm should be equivalent or superior than the MOC of Bottom chamber.]																																				
Seal Type																																				
S21 1 to 0 kg/cm ² & 0 to 70 kg/cm ² (Standard)	S22 100 kg/cm ² to 400 kg/cm ²	S23 -1 to 0 kg/cm ² & 0 to 70 kg/cm ²																																		
Instrument Connection																																				
VP 3/8" BSP (F)	VL 1/2" BSP (F)(Standard)	VM 1/2" NPT (F)																																		
Top Chamber																																				
XW AISI 304 SS (Standard)	XY AISI 316 SS	YA AISI 316L SS																																		
		YC Carbon Steel																																		
Diaphragm (* Range up to 21 kg/cm ²)																																				
UL Hastelloy 'C'	UP Silver*	UR Titanium																																		
UQ Tantalum		UJ AISI 316I SS (Standard)																																		
	UM Monel																																			
Sealing Gasket																																				
VI PTFE (Standard)	YR Metal																																			
Bottom Chamber (I Section) (* Refer Pressure v/s Temperature table below.)																																				
TK AISI 304 SS	TZ PVC*																																			
TL AISI 316L SS	UA PVDF*																																			
UH Titanium	TY POLYPROPELENE*																																			
TT Hastelloy C																																				
TX Monel																																				
TN Carbon Steel																																				
TM AISI 316 SS (Standard)																																				
	<table border="1"> <thead> <tr> <th rowspan="2">MOC OF BOTTOM CHAMBER</th> <th colspan="6">PRESSURE V/S TEMPERATURE</th> </tr> <tr> <th>20 °C</th> <th>40 °C</th> <th>60 °C</th> <th>80 °C</th> <th>100 °C</th> <th>120 °C</th> </tr> </thead> <tbody> <tr> <td>PVDF</td> <td>10 kg/cm²</td> <td>10 kg/cm²</td> <td>10 kg/cm²</td> <td>7 kg/cm²</td> <td>4 kg/cm²</td> <td>2 kg/cm²</td> </tr> <tr> <td>PP</td> <td>10 kg/cm²</td> <td>10 kg/cm²</td> <td>6 kg/cm²</td> <td>4 kg/cm²</td> <td>1 kg/cm²</td> <td>NA</td> </tr> <tr> <td>PVC</td> <td>10 kg/cm²</td> <td>10 kg/cm²</td> <td>4 kg/cm²</td> <td>1 kg/cm²</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	MOC OF BOTTOM CHAMBER	PRESSURE V/S TEMPERATURE						20 °C	40 °C	60 °C	80 °C	100 °C	120 °C	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	PP	10 kg/cm ²	10 kg/cm ²	6 kg/cm ²	4 kg/cm ²	1 kg/cm ²	NA	PVC	10 kg/cm ²	10 kg/cm ²	4 kg/cm ²	1 kg/cm ²	NA	NA	
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PVC	10 kg/cm ²	10 kg/cm ²	4 kg/cm ²	1 kg/cm ²	NA	NA																														
Process Connection																																				
As Per DIN / BS / ANSI/ JIS (select Code From Flange Table)																																				
Tension Flange & Nut - Bolts (*Nut & Bolts will be AISI 304 SS)																																				
VB Pressed Steel - Cup Type (plated) (standard)	XS Steel (plated)																																			
XQ AISI 304 SS	XR AISI 316 SS*																																			
Protection On Wetted Parts																																				
VS PTFE Lining On Bottom Chamber ("I" SECTION)- 2 mm Thick (Max. Up to 150 °C)																																				
VV PTFE Protection For Diaphragm (Max. Up to 150 °C) (Suitable for Pressure Ranges only)																																				
VZ PTFE Coating On Diaphragm (Max. Up to 315 °C)																																				
Filling Fluids (* Consult factory for specifications, price and delivery)																																				
US Fluorolube 4.2 [-45 to 175 °C]	UY Silicon DC 704 [10 to 337 °C]																																			
UT Fluorolube 6.3 [-40 to 235 °C]	UZ Silicon DC 710 [7 to 371 °C]																																			
UU Fluorolube 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*																																			
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																																			
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*																																		
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.																																				
Ordering Example: DI . XXX . XX . XX . XX . XX . XXX . XX . XX . XX . 3Mtr . XX . XX . XX																																				

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.