



Special Features

- Robust two piece design
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium
- All SS construction

Application

- 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.

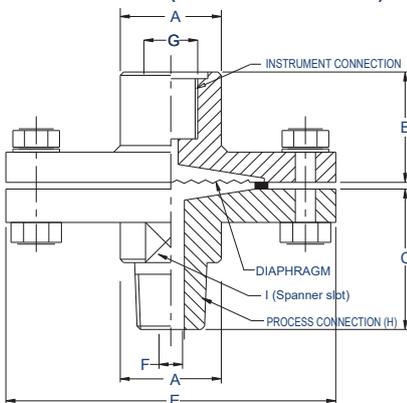
Specifications

Seal type & Range	: S06 = -1 to 0 kg/cm ² & 0 to 70 kg/cm ² (Standard)
	: S07 = 100 kg/cm ² to 400 kg/cm ²
Process temperature	: - 40 °C to 200 °C or as per fill fluid
Instrument connection	: ½" BSP (F)
Process connection	: ½" BSP (M)
Fill fluid	: Silicon Oil - DC 200
Mounting	: Direct (without capillary)

Diaphragm	: AISI 316L SS
Top chamber	: AISI 304 SS
Bottom chamber	: AISI 316 SS
Nuts / bolts	: AISI 304 SS
Sealing gasket	: PTFE

Dimensions - Standard Version

TYPE "S06" (STANDARD VERSION)

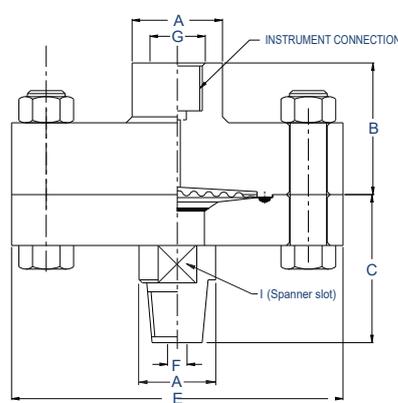


A	~B	~C	E	F	G	H	I	Approx. Wt. #
30	26	47	98	Ø8	½" BSP(F)	½" BSP (M)	25	1500.0

(# Weight in grams with box for Standard Model.)

Notes : • Drawings are not to scale. • All Dimensions are in mm.

TYPE "S07"



A	~B	~C	E	F	G	H	I	Approx. Wt. #
30	44	49.5	110	Ø8	½" BSP(F)	½" BSP (M)	25	3000.0

(# Weight in grams with box for Standard Model.)



RDB

Diaphragm Seal Direct coupled type

How to Order							Example																														
Basic Model							RDB																														
Code																																					
Optional Extras																																					
[It is recommended that the MOC of Diaphragm should be equivalent or superior than the MOC of Bottom chamber.]																																					
Type																																					
S06 -1 to 0 kg/cm ² & 0 to 70 kg/cm ² (Standard) S07 100 kg/cm ² to 400 kg/cm ²							XXX																														
Instrument Connection (Select this option when dry seal is required)																																					
VN 1/4" BSP(F) VP 3/8" BSP (F) VL 1/2" BSP (F)(Standard) VM 1/2" NPT (F) VO 1/4" NPT (F)							XX																														
Top Chamber																																					
XW AISI 304 SS (Standard) YA AISI 316L SS XY AISI 316 SS							XX																														
Diaphragm (* Range up to 21 kg/cm ²)																																					
UJ AISI 316L SS (Standard) UL Hastelloy 'C' UR Titanium UW Inconel 600							XX																														
UM MONEL UP Silver* UQ Tantalum																																					
Sealing Gasket																																					
VI PTFE (Standard) YR Metal							XX																														
Bottom Chamber (* Refer Pressure v/s Temperature table below.)																																					
TK AISI 304 SS	TT Hastelloy 'C'	<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	XX
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PVC	10 kg/cm ²	10 kg/cm ²	4 kg/cm ²	1 kg/cm ²	NA	NA																															
TM AISI 316 SS (Standard)	UD Tantalum																																				
TL AISI 316L SS	TZ PVC*																																				
UH TITANIUM	UA PVDF*																																				
TX MONEL	TY Polypropelene*																																				
Process Connection																																					
WE 1/4" BSP(F)	WI 1/4" NPT (F)	WY 1/4" NPT(M)	WS 1/4" BSP(M)	WR M20 x 1.5(M)			XX																														
WC 3/8" BSP(F)	WH 1/2" NPT (F)	WA 1/2" NPT(M)	WT 3/8" BSP(M)	WP M33 x 1.5(M)																																	
WD 1/2" BSP(F)	WL 3/4" NPT(F)	WK 3/4" NPT(M)	WU 1/2" BSP(M) (Standard)																																		
WJ 3/4" BSP(F)			WF 3/4" BSP(M)																																		
Note : Connections like Metric, PT/ PF/ Flaired / UNF/ G/ R etc can be provided on request.																																					
Protection On Wetted Parts (* With bore diameter 10 mm minimum & for connection size 1/2" & above only.)																																					
VS PTFE Lining On Bottom Chamber - 2 mm THICK (Max. Up to 150 °C)*							XX																														
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 Flurolube 4.2 [-45 to 175 °C]	UY Silicon DC 704 [10 to 337 °C]						XX																														
UT Flurolube 6.3 [-40 to 235 °C]	UZ Silicon DC 710 [7 to 371 °C]																																				
UU Flurolube 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						XX																														
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)					XX																														
Other Options																																					
TB Helium Leak Test	TC Dry Seal Only Without Instrument	GH Material Test Certificates*					XX																														
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 RE for selection of Flushing Rings.																																					
Ordering Example: RDB . XXX . 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.																																					