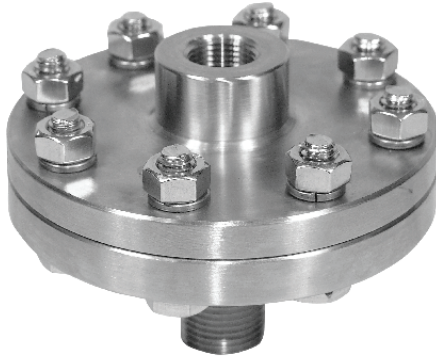


# DDS

Diaphragm Sealed  
Direct Coupled type



CE

### 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

#### Standard Version

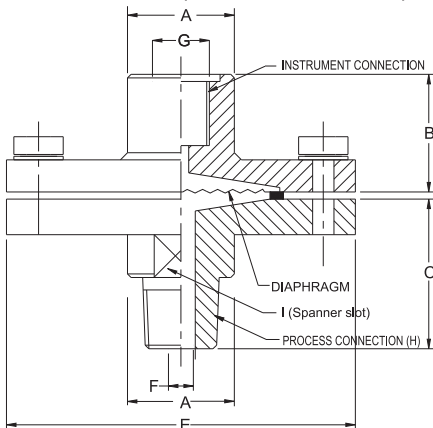
(Compatible models : PPS, SF6, WP6, WP4, DD1, DD2, DB, BEC, DEC)

Seal type & Range	: D85 = -1 to 0 kg/cm <sup>2</sup> & 0 to 70 kg/cm <sup>2</sup> (Standard)
	: D65 = 100 kg/cm <sup>2</sup> to 250 kg/cm <sup>2</sup>
Process temperature	: -40°C to 200°C or as per fill fluid
Instrument connection	: 3/8" BSP (F)
Process connection	: 1/2" 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 "D85" (STANDARD VERSION)

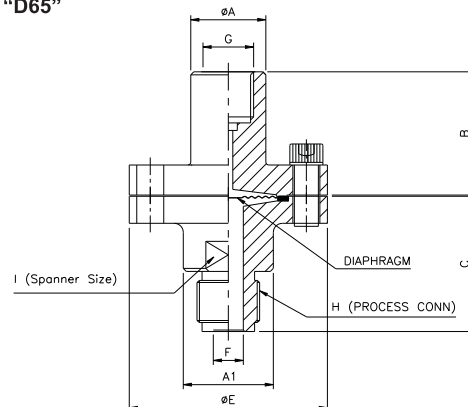


A	~ B	~ C	E	F	G	H	I	Approx. Wt. #
30	31	44	85	Ø10	3/8" BSP(F)	1/2" BSP (M)	26	1300.0

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

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

TYPE "D65"



A	A1	~ B	~ C	E	F	G	H	I	Approx. Wt. #
25	30	41	45	66	Ø10	3/8" BSP(F)	1/2" BSP (M)	25	900.0

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

How to Order							Example	
<b>Basic Model</b>							DDS	
<b>Code</b>								
<b>Optional Extras</b>								
[It is recommended that the MOC of Diaphragm should be equivalent or superior than the MOC of Bottom chamber.]								
<b>Type</b>								
<b>D85</b> -1 to 0 kg/cm <sup>2</sup> & 0 to 70 kg/cm <sup>2</sup> (Standard) <b>D65</b> 100 kg/cm <sup>2</sup> to 400 kg/cm <sup>2</sup>							XXX	
<b>Instrument Connection</b> (Select this option when dry seal is required)								
<b>2BF</b> ¼" BSP (F) <b>3BF</b> 3/8" BSP (F) (Standard) <b>4BF</b> ½" BSP (F) <b>4NF</b> ½" NPT (F) <b>2NF</b> ¼" NPT (F)							XXX	
<b>Top Chamber</b>								
<b>S4</b> AISI 304 SS (Standard) <b>SL</b> AISI 316L SS <b>S6</b> AISI 316 SS							XX	
<b>Diaphragm</b> (* Range up to 21 kg/cm <sup>2</sup> )								
<b>SL</b> AISI 316L SS (Standard) <b>HC</b> Hastelloy 'C' <b>TI</b> Titanium <b>IN</b> Inconel 600							XX	
<b>MO</b> MONEL <b>Si</b> Silver* <b>TN</b> Tantalum								
<b>Sealing Gasket</b>								
<b>TF</b> PTFE (Standard) <b>MT</b> Metal							XX	
<b>Bottom Chamber</b> (* Refer Pressure v/s Temperature table below.)								
<b>S4</b> AISI 304 SS	<b>HC</b> Hastelloy 'C'	MOC OF BOTTOM CHAMBER		PRESSURE V/S TEMPERATURE			XX	
<b>S6</b> AISI 316 SS (Standard)	<b>TN</b> Tantalum			20°C	40°C	60°C		80°C
<b>SL</b> AISI 316L SS	<b>PV</b> PVC*	PVDF	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	7 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	2 kg/cm <sup>2</sup>
<b>TI</b> TITANIUM	<b>PD</b> PVDF*	PP	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	6 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	1 kg/cm <sup>2</sup>	NA
<b>MO</b> MONEL	<b>PP</b> Polypropelene*	PVC	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	1 kg/cm <sup>2</sup>	NA	NA
<b>Process Connection</b>								
<b>2BF</b> ¼" BSP (F)	<b>2NF</b> ¼" NPT (F)	<b>2NM</b> ¼" NPT (M)	<b>2BM</b> ¼" BSP (M)	<b>M20</b> M20 x 1.5 (M)		XXX		
<b>3BF</b> 3/8" BSP (F)	<b>4NF</b> ½" NPT (F)	<b>4NM</b> ½" NPT (M)	<b>3BM</b> 3/8" BSP (M)	<b>M33</b> M33 x 1.5 (M)				
<b>4BF</b> ½" BSP (F)	<b>5NF</b> ¾" NPT (F)	<b>5NM</b> ¾" NPT (M)	<b>4BM</b> ½" BSP (M) (Standard)					
<b>5BF</b> ¾" BSP (F)			<b>5BM</b> ¾" BSP (M)					
Protection On Wetted Parts (* With bore diameter 10 mm minimum & for connection size ½" & above only.)								
<b>PL</b> PTFE Lining On Bottom Chamber - 2 mm THICK (Max. Up to 150°C)*							XX	
<b>PT</b> PTFE Protection For Diaphragm (Max. Up to 150°C) (Suitable for Pressure Ranges only)								
<b>PC</b> PTFE Coating On Diaphragm (Max. Up to 315°C)								
<b>BC</b> PTFE Coating On Bottom Chamber & Diaphragm (Max. Up to 315°C)								
<b>Filling Fluids</b> (*Consult factory for specifications, price and delivery.)								
<b>S1</b> Silicon DC 200 [-40 to 205°C] (Standard) <b>SY</b> Syltherm 800 [-40 to 315°C]							XX	
<b>FG</b> Food Grade OIL [-20 to 140°C]								
<b>S2</b> Silicon DC 550 [10 to 400°C]								
<b>Remote Mounting (With capillary of Max. Up to 6 Mtrs.) Please Consult Factory if Required Length Above 6 Meter )</b>								
Specify In Meters (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)							3Mtr.	
<b>Capillary</b>								
<b>S4</b> AISI 304 SS <b>S6</b> AISI 316 SS							XX	
Capillary Covered With Armour (Applicable with Capillary is Selected )								
<b>S4</b> AISI 304 SS <b>S6</b> AISI 316 SS <b>PC</b> PVC (Ambient Temp. Max. 60°C)							XX	
<b>Other Options</b>								
<b>HLT</b> Helium Leak Test <b>WOI</b> Dry Seal Only Without Instrument							XXX	
<b>CNS</b> Conformity as per NACE Standard <b>MTC</b> Material Test Certificates*								
<b>FCG</b> Filling & Calibration Charge For Pressure Gauge <b>FCT</b> Filling & Calibration Charge For Pressure Transducer (Small)								

\* 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: DDS - XXX - XXX - XX - XX - XX - XX - XXX - XX - XX - 3Mtr. - XX - XX - XXX**

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.