

# DIAPHRAGM SEALED PAN CAKE (WAFER) Type

**DSPC**

## Applications :

DIAPHRAGM SEALS ARE PROVIDED IN THE INSTRUMENTSLIKE 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. THESE KIND OF SEALS ARE WIDELY USED IN THE VISCOUS & CORROSIVE SERVICES WHERE FLUSHING IS REQUIRED PERIODICALLY & FREQUENTLY.

## Special Features

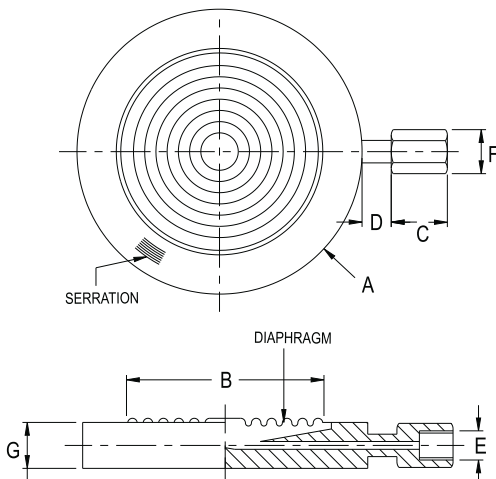
- ★ WELDED DIAPHRAGM
- ★ SUITABLE FOR SLURRY & HIGH VISCOUS SERVICE
- ★ EASY TO CLEAN
- ★ FLUSH FITMENT IN PIPELINE
- ★ FLUSHING RING, FLANGE & DIAPHRAGM ARE AVAILABLE IN
- ★ VARIOUS TYPE OF SS & EXOTIC MATERIALS.



## Specification

<b>Range</b>	1 kg/cm <sup>2</sup> to 160 kg/cm <sup>2</sup> *
<b>Process Temperature</b>	-40°C to 200°C or as per fill fluid
<b>Instrument Connection</b>	1/4" NPT (F)
<b>Process Connection</b>	Flange (As per ANSI/BS/DIN/JIS), Suitable for 2" & above
<b>Flange finish</b>	Finish 125-250 AARH
	* Range of selected instrument shall be suitable to flange pressure rating.
<b>Diaphragm</b>	AISI 316L SS
<b>Pan Cake Body/Flange</b>	AISI 316 SS
<b>Fill Fluid</b>	Silicon Oil - DC 200

## DIMENSIONS - STANDARD VERSION Compatible with Delta Model IP



A	B	C	D	E	F	G
**	***	20	*	1/4" NPT(F)	17 HEX.	22

- \* To suit flange raised face
- \*\* 2" & above Flanges as per ANSI, BS, DIN, JIS Etc.
- \*\*\* Diaphragm size as per pressure range

All Dimensions are in mm, Drawings are not to scale

## FLANGE CONECTION CODES

### AS PER DIN 2527

DN	PN	CODE
50	6	A51
	10	A52
	16	A53
	25	A54
	40	A55
	64	A56
	100	A57
	160	A58
	250	A59
400	A60	

DN	PN	CODE
80	6	A71
	10	A72
	16	A73
	25	A74
	40	A75
	64	A76
	100	A77
	160	A78
	250	A79
400	A80	

### AS PER ANSIB 16.5

NOMINAL SIZE	RATING /CLASS	CODE
2"	150	B39
	300	B40
	600	B41
	900	B42
	1500	B43
	2500	B44
3"	150	B51
	300	B52
	600	B53
	900	B54
	1500	B55
	2500	B56

### AS PER BS - 10

NOMINAL SIZE	TABLE	CODE
2"	D	C15
	E	C16
	F	C17
	H	C18
	J	C19
	K	C20
3"	D	C27
	E	C28
	F	C29
	H	C30
	J	C31
	K	C32

### AS PER JIS - B 2210

NOMINAL SIZE	RATING /CLASS	CODE
50A	5K	B75
	10K	B76
	40K	B77
80A	5K	B81
	10K	B82
	40K	B83

### AS PER DIN 2633

DN	PN	CODE
50	16	A87
80		A89

### AS PER DIN 2642

DN	PN	CODE
50	10	A96
80		A98

### AS PER DIN 2635

DN	PN	CODE
50	40	B06
80		B08

RAISED FACE : A2

FLAT FACE : A3

## HOW TO ORDER

e.g. FOR FLANGE SIZE OF 2" AS PER BS-10 TABLE WITH RAISED FACE : C16 - A2

NOTE : FLANGE FINISH WILL BE 125-250 AARH FOR OTHER FINISH, PLEASE SPECIFY IN ORDER

## HOW TO ORDER

### BASIC MODEL

### CODE

### OPTIONAL EXTRAS

[It is recommended that the MOC of Diaphragm & flange should be equivalent.]

### DIAPHRAGM

S6 AISI 316L SS (Standard)      HC HASTELLOY 'C'      TT TITANIUM      IN INCONEL 600  
 ML MONEL      TM TANTALUM      NK NICKEL

### PAN CAKE BODY/ FLANGE (Suitable for 2" OR 3" DIN/ANSI/BS/JIS Flanges)

ZR FOR 2" FLANGE SIZE - AISI 316L SS      KH FOR 2" FLANGE SIZE - HASTELLOY C  
 ZS FOR 3" FLANGE SIZE - AISI 316L SS      KI FOR 3" FLANGE SIZE - HASTELLOY C

### INSTRUMENT CONNECTION

VN 1/4" BSP (F)      VO 1/4" NPT (F) (Standard)      VP 3/8" BSP (F)

### FLANGE MATERIAL

TM AISI 316 SS (Standard)      TL AISI 316L SS      TT HASTELLOY C

PROTECTION ON WETTED PARTS      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]  
 UT FLUROLUBE 6.3 [-40 to 235 °C]      UZ SILICON DC 710 [7 to 371 °C]  
 UU FLUROLUBE FS-5 [-28 to 148 °C]  
 UV FOOD GRADE OIL [-20 to 140°C]  
 UX SILICON DC 200 [-40 to 205 °C] (Standard)

### REMOTE MOUNTING (With capillary of Max. Up to 2 Mtrs.)

SPECIFY IN METERS (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)

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)

### OPTIONS

TC DRY SEAL ONLY WITHOUT INSTRUMENT      GH MATERIAL TEST CERTIFICATES\*

\* 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: DSPC - S6 - ZR - VN - TM - VZ - UX - 1Mtr - PE - PF - GH

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.

Example

DSPC

S6

ZR

VN

TM

VZ

UX

1 Mtr.

PE

PF

GH