

DIAPHRAGM SEAL

DIRECT COUPLED TYPE



MODEL CODE : EDB

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

APPLICATIONS

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 :

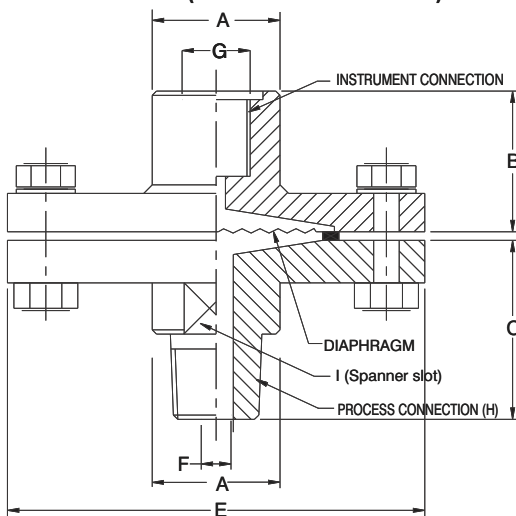
(COMPATIBLE EFFEX MODELS : EAC, EAE, EAH, EAI, EAL, EAQ, EBA, EBE, EBI, EBJ, EBO, EBQ & EBT)

Seal 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
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

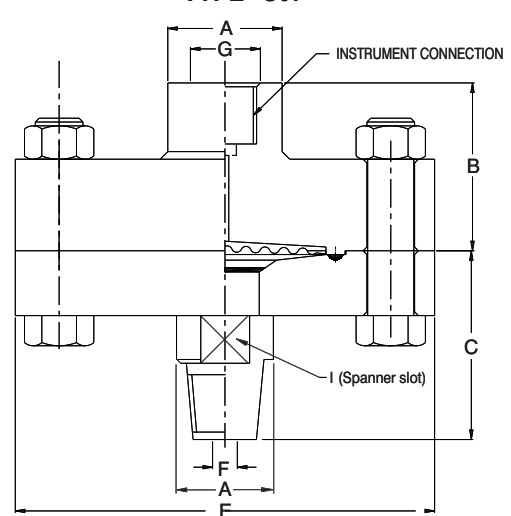
TYPE "S06" (STANDARD VERSION)



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.)

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.)

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

DIAPHRAGM SEAL

LEVEL SWITCH

DIRECT COUPLED TYPE



MODEL CODE : EBD

HOW TO ORDER

BASIC MODEL

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/cm² & 0 to 70 kg/cm² (Standard) **S07** 100 kg/cm² to 400 kg/cm²

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)

TOP CHAMBER

XW AISI 304 SS (Standard) **YA** AISI 316L SS **XY** AISI 316 SS

DIAPHRAGM (* Range up to 21 kg/cm²)

UJ AISI 316L SS (Standard) **UL** HASTELLOY 'C' **UR** TITANIUM **UW** INCONEL 600
UM MONEL **UP** SILVER* **UQ** TANTALUM

SEALING GASKET

VI PTFE (Standard) **YR** METAL

BOTTOM CHAMBER (* Refer Pressure v/s Temperature table below.)

TK AISI 304 SS **TT** HASTELLOY 'C'
TM AISI 316 SS (Standard) **UD** TANTALUM
TL AISI 316L SS **TZ** PVC*
UH TITANIUM **UA** PVDF*
TX MONEL **TY** POLYPROPELENE*

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

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)
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)*
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]
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)

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*

* MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

Refer Datasheet KEE for selection of Flushing Rings.

Ordering Example: EDB - S06 - VL - XW - UJ - VI - TM - WU - VS - UX - 3Mtr. - PG - PH - 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.

Example

EDB

S06

VL

XW

UJ

VI

TM

WU

VS

UX

3Mtr.

PG

PH

XX

LEVEL SWITCHES