## **Chemical / Diaphragm Seal Unit**



**MODEL: PGCSU** 

#### **Features**

#### Where isolation is essential

- Corrosive process fluid.
- Process fluid having sediments or is viscous.
- Process fluid has a tendency to solidify, freeze or crystallise at lower temperatures which may block the sensing element.
- Process fluid is hazardous.
- The diaphragm seal transmits process pressure to the instrument through a diaphragm. The instrument side of the diaphragm is filled with appropriate fluid. As liquids are incompressible, pressure is hydraulically transmitted to the pressure sensing element.
- Proper selection of diaphragm seal is important after reviewing the application.



## **Specifications**

#### The generally offered MOC is as follows:

Upper housing: CS, SS304. SS316

**Diaphragm** : SS316L, PTFE, PTFE coated, Titanium, Hastelloy B, C, Nickel, Monel, Tantalum **Lower housing** : SS304, SS316, SS304L, SS316L, Titanium, Nickel, PTFE coated / lined,

PTFE block, Hastelloy B, C.

Filling Fluid : NameApplication range

Silicone oil(-) 40°C to 200°C Fluorolube(-) 50°C to 150°C

Glycerine0 to 80°C Paraffine0 to 85°C DC-704 0 to 339°C

Halocarbon(-) 25°C to 225°C Food grade oil 0 to 150°C Water 20 to 80°C

Note: 1) Purchaser must confirm the suitability of the MOC suggested.

2) Capillary for remote seal can be offered.

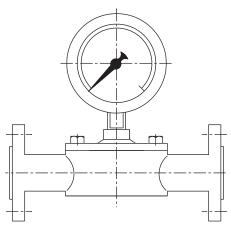
#### Different types of diaphragm seal offered:

- 1) Direct mounted
- 2) Inline flow through type with flanged connection.
- 3) Inline flow through type (jacketed)
- 4) Inline flow through type (weld in)
- 5) Extended diaphragm seal
- 6) Pan cake type diaphragm seal
- 7) I-Section type

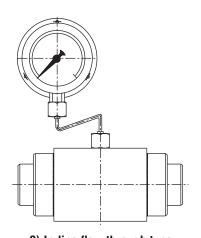


### **Dimensions**

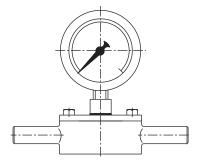




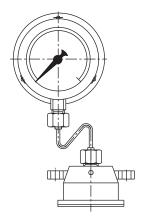
# 1) In-line flow through type (End connection flanged) For application in Waste Water, Pulp & Paper, Synthetic Fibre, where fluid is viscous and will contain solid undissolved particles.



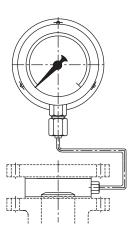
2) In-line flow through type
(Jacketed)
For applications where process fluid is likely to solidify as temperature reduces. Jacketing provided for steam or thermic fluid.
(End connection - weld in shown above)



3) In-line Flow through type (Weld in) End pipe suitable for butt welding to the process pipe. For application in Waste Water, Synthetic Fibre, Pulp & paper, etc.



4) Extended diaphragm seal
Diaphragm flushed to the process. Extension
depends upon nozzle standout. Allows
mounting in insulated vessels or pipelines.

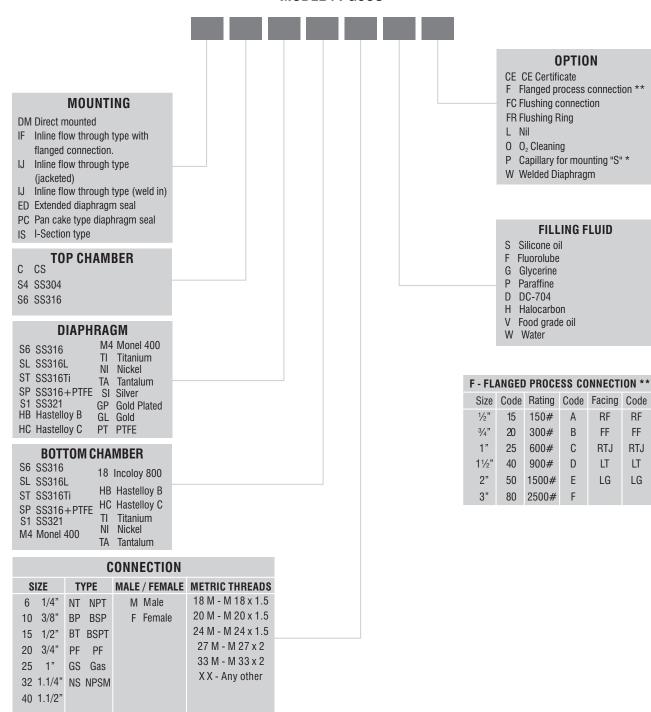


5) Pan Cake type diaphragm seal Sandwiched between loose flange (back-up flange) and nozzle flange. For fluids which are corrosive, contaminated, etc.

## **Ordering Information**



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<sup>\*</sup> Length of capillary to be specified in bracket e.g. P (3) i.e. 3 mtr. capillary

The recommendations made in this catalogue are to be used as intended guide. No guarantee of material can be undertaken since other factors may affect the performance. We reserve the right to change the specifications mentioned in this catalogue without any notice as improvements & development is a continuous process. Responsibility of typographical errors is specifically disclaimed.

RF

FF

RTJ

LT

LG

<sup>\*\*</sup> For Flanged Process Connection refer the table (mentioned separately)