

# Flanged End Flush Diaphragm Seal With Extended Sensor **DC710 Series**

## Features

- Laser welding flush diaphragm design
- Flanged end to Standard EN 1092-1 or ASME
- Flanged size DIN (DN50..100), ANSI (2" ..4")
- Combined with pressure for pipeline and tank
- Wide corrosive and crystallising application
- Applicable for measuring media up to 200°C
- Full stainless steel body construction
- Design pressure range 0..600 mbar up to 40 bar
- Various diaphragm material available
- Extended diaphragm length on request



## Technical Specification



- Design Construction  
Extended diaphragm sensor with flush diaphragm
- Flanged end standard  
DIN, Size DN 50..100, PN 10..40 bar  
ASME, Size DIN 2" .. 4", RF 150..300
- Flanged Standard  
ANSI B16.5, DIN 2501, \*Others as option
- Instrument connection  
Welded female connection G½" or NPT
- Working Temperature  
Range -45° .. +150°C, depend on filling
- Design pressure range  
0..600 mbar up to 0..40 bar
- Diaphragm sensor Length  
30 mm up to 150 mm, \*Max. 300 mm
- Accessories (\*Option)  
Stainless steel capillary (Max. 6 meters)  
Cooling tube - Spring  
Cooling tube - Mini  
Cooling tube - Tube  
Other flanged end standard and type
- Wetted parts material  
Stainless steel 316, \*Others as option
- Diaphragm  
Stainless steel 316Lstd, flush diaphragm type  
\*Hastelloy B or C, Tantalum, Titanium, Monel, etc
- Diaphragm Protection  
Diaphragm PTFE coating, wetted parts coat or lining
- Flange  
SS316 standard, \*SS321, SS316L, SS304
- Capillary\*  
SS321 tube, SS321 armored protected, \*others on request
- Diaphragm filling reference

Working Fluid	Working Temp.	Specific Gravity	Service
Silicone oil Std	-40°..+130°C	0.94 g/cm2	General industry
Silicone oil DC2	-30°..+200°C	1.07 g/cm2	High temperature
Fluorocarbon oil	-30°..+160°C	1.93 g/cm2	H2, O2, salt, acid
Food oil	-20°..+200°C	0.93 g/cm2	Food, sanitary

### • Flange Facing

Standard	Flange Facing
ISO PN 10..100	Raised Face (RF), Flat Face (FF), Male tongue, Female groove, M/F spigot
DIN DN 1½" ..3"	Raised Face (RF) -RF de 1.6/6.4, Male tongue - Large/Small, Female groove
ASME Class150..2500	Ring Type Joint (RTJ), Female spigot - Large/Small, Male spigot - Large/Small

## Ordering Code



### DC710 - Diaphragm<sup>①</sup> Flange Size<sup>②</sup> Diaphragm Extension<sup>③</sup> Filling<sup>④</sup> \*Option<sup>⑤</sup>

①	Diaphragm Material
SS	SS 316 L (Standard)
T1	Titanium
TA	Tantalum
HC	Hastelloy C
HB	Hastelloy B
MO	Monel (Cu30Ni70)
XX	Other material

②	Flange Size and Rating
Please refer to flange size and rating table	

③	Diaphragm Extension
30	30 mm
50	50 mm
100	100 mm
150	150 mm
XXX	Other size, maximum 300 mm

④	Diaphragm Filling
A	Standard silicone oil -40° .. +130° C
B	Hi-temp. silicone oil -30°..+200°C
C	Fluorocarbon oil -30°..+160°C
F	Food oil -20°..+200°C

⑤	Option
AC	Capillary (Meter), eg. AC5 - 5 meters
CM	Other capillary material
W2	Wetted parts SS321
WL	Wetted parts SS316L
DC	PTFE diaphragm coating
DH	Halar coating
DW	PTFE wetted parts coating
C1	Cooling tower, C100 (Spring)
C2	Cooling tower, C200 (Mini)
C3	Cooling tower, C300 (Tube)