



DC5-SERIES

FLANGED END FLUSH DIAPHRAGM SEAL



* Double welded diaphragm



FEATURES



- Flanged end diaphragm processing type
- Standard to DIN 2501, ANSI B1.20, etc
- Applicable with most measuring instruments
- Double laser welding diaphragm design
- Wide range corrosive applications
- Various diaphragm materials selection
- Diaphragm or wetted parts coating or lining
- Pressure range -1..0, -1..+24 to 0.. 400 bar
- Various liquid filling supported

DESIGN MATERIAL



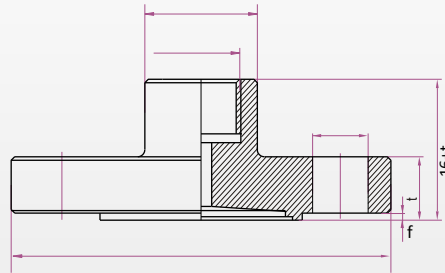
- **Diaphragm seal body**
SS 316 (Standard) or *SS316L
- **Diaphragm**
SS 316L (Standard),
*Optional material
Titanium, Monel, Hastelloy, Tantalum
or other exotic materials
- **Diaphragm filling**
Standard silicone oil

TECHNICAL SPECIFICATION

- **Model and pressure configuration**
Pressure : 0.. 1 bar to 400 bar
Vacuum : -1.. 0 bar
Compound : -1..24 bar
- **Diaphragm diameter**
According to flange size and pressure range
-1 bar..0 : Ø59 mm
P ≤ 25 bar : Ø52 mm
P ≥ 40 bar : Ø36 mm
- **Instrument connection size**
Standard G ½" or ½"NPT
- **Process Connection Size**
Flanged end to DIN 2501, ASME B16.5, etc
DIN 2501 : DN25..125, PN 10..250
ASME B16.5 : 1"..4", Rating 150#..2500#
- **Working temperature range**
Working media -40°..+200°C
Please refer to filling selection table
- **Optional Accessories**
Stainless steel armoured capillary, max.15m
Cooling tower AR100, maximum temp.
Cooling tower AR200,
Cooling tower AR300,



DIMENSIONS (mm)



▪ **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
Glycerine water	-5° ..+100°C	1.27 g/cm2	Food, sanitary
Vegetable oil	-5° ..+100°C	0.93 g/cm2	Food, sanitary

▪ **Flange Facing**

Standard	Flange Facing
ISO PN 10..40	Raised Face (RF), Flat Face (FF), Male tongue, Female groove, M/F spigot
DIN PN 20..420	Raised Face (RF) - RF de 1.6/6.4, Male tongue - Large/Small, Female groove

ORDERING CODE



1 DIAPHRAGM

	Diaphragm Material
SS	SS 316 L
TI	Titanium
TA	Tantalum
HC	Hastelloy (H276C)
MO	Monel (Cu30Ni70)
XX	Other material

2 FLANGE SIZE AND

Flange Size and Rating
Please refer to flange size and rating

3 FILLING

	Diaphragm Filling
A	Standard silicone oil -40°..+130°C
B	Hi-temp. silicone oil -30°..+200°C
C	Fluorocarbon oil -30°..+160°C
D	Glycerine-Water -5° ..+100°C
E	Vegetable oil -5° ..+100°C

4 OPTION

	Option
OM	Other upper / lower body
AC	Capillary (Meter), eg. AC5 - 5
DC	PTFE diaphragm coating
DH	Halar coating
DF	PTFE diaphragm foil
DW	PTFE wetted parts coating
X1	Cooling tower, AR100
X2	Cooling tower, AR200
X3	Cooling tower, AR300