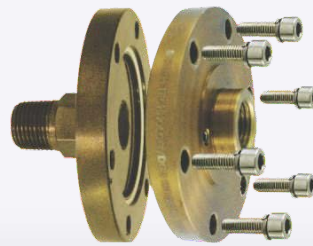




DS1-SERIES

DIRECT THREADED DIAPHRAGM SEAL



* Wetted parts PTFE coated



FEATURES



- Direct threaded processing type
- Applicable with most measuring instruments
- Double laser welding diaphragm design
- Wide range corrosive applications
- Stainless steel wetted parts with options
- Various diaphragm materials selection
- Diaphragm or wetted parts coating or lining
- Pressure range -1..0, -1...+24 to 0.. 40 bar(kg/cm²)
- Various liquid filling supported

DESIGN MATERIAL



- **Upper and lower body**
SS 316 (Standard) or SS316L
- **Diaphragm**
SS 316L (Standard), *Optional material PTFE (Teflon)
- **Sealing ring / gasket**
PTFE / Viton seal *Optional Nitrile, Rubber, Fluoroplastic
- **Fastening screw**
SS 304
- **Diaphragm filling**
Standard silicone oil

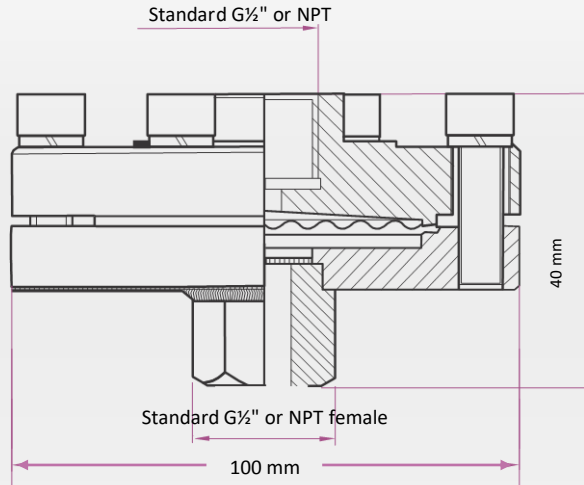
TECHNICAL SPECIFICATION

- **Model and pressure configuration**
Pressure : 0..1 bar(kg/cm²) to 40 bar(kg/cm²)
Vacuum : -1..0 bar(kg/cm²)
Compound : -1..24 bar(kg/cm²)
- **Body diameter size**
Ø 100 mm
- **Instrument connection size**
Standard G 1/2" or 1/2" NPT
- **Diaphragm filling referen**
- **Instrument/Process Connection Size**
G1/2 or NPT, other connection size available
- **Working temperature range**
Working temperature -40°..+150°C Please refer to filling selection table
- **Optional Accessories**
Stainless steel armoured capillary, max. 15m
Cooling tower AR100.. AR300 (T> 100°C)

Working Fluid	Working Temp.	Specific Gravity	Service
Silicone oil Std	-40°..+130°C	0.94 g/cm ²	General industry
Silicone oil DC2	-30°..+200°C	1.07 g/cm ²	High temperature
Fluorocarbon oil	-30°..+160°C	1.93 g/cm ²	H2, O2, salt, acid
Glycerine water	-5° ..+100°C	1.27 g/cm ²	Food, sanitary
Vegetable oil	-5° ..+100°C	0.93 g/cm ²	Food, sanitary



DIMENSIONS (mm)



ORDERING CODE



1 DIAPHRAGM

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

2 PROCESS CONNECTION

	Process Connection
G2	G 1/2"
N2	1/2" NPT
G1	G 1"
N1	1" NPT
X	Other connection size

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 material
AC	Capillary (Meter), eg. AC5 - 5 meters
DC	PTFE diaphragm coating
DF	PTFE diaphragm foil
DW	PTFE wetted part coating
DL	PTFE housing lining
FL	PTFE wetted part lining
AX	Cooling tower, AR100.. AR300