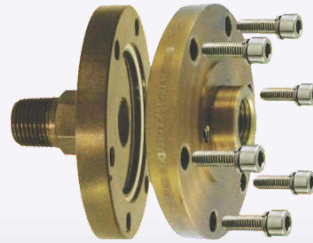




# DS1-SERIES

DIRECT THREADED DIAPHRAGM SEAL



\* Wetted parts PTFE coated



## FEATURES



- G P PO M
- MN R PO P M
- G N M R R M O M
- M P R PP M P R
- M M O M MP M
- G M O M R PP M P
- M M BB BBB

## 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
- **Fastering screw**  
SS 304
- **Diaphragm filling**  
Standard silicone oil

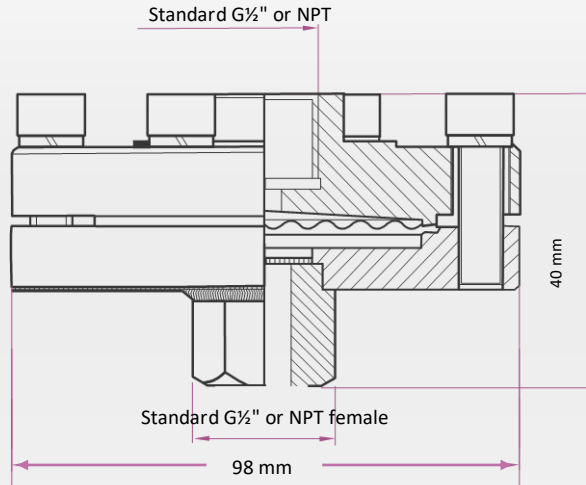
## TECHNICAL SPECIFICATION

- **Model and pressure configuration**  
Pressure : 0.. 1 bar to 40 bar  
Vacuum : -1.. 0 bar  
Compound : -1..24 bar
- **Body diameter size**  
Ø 98 mm
- **Instrument connection size**  
Standard G½" or ½"NPT
- **Diaphragm filling reference**
- **Instrument / Process Connection Size**  
G½" 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/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



### 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