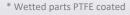
# **DS1-SERIES**

DIRECT THREADED DIAPHRAGM SEAL







#### **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 liningg
- Pressure range -1..0, -1...+24 to 0.. 40 bar
- 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 / gaskal
   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 to 40 bar

Vacuum : -1..0 bar Compound : -1..24 bar

Body diameter size

Ø 98 mm

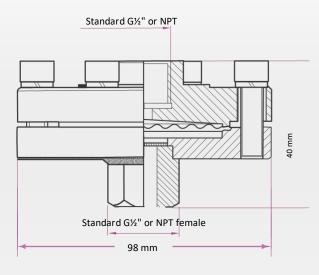
Instrument connection size
 Standard G/2" or 12"NPT

Diaphragm filling reference

- 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	-40º+130ºC	0.94 g/cm2	General industry
Silicone oil DC2	-30º+200ºC	1.07 g/cm2	High temperature
Fluorocarbon oil	-30º+160ºC	1.93 g/cm2	H2, O2, salt, acid
Glycerine water	-5º+100ºC	1.27 g/cm2	Food, sanitary
Vegetable oil	-5º+100ºC	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	

# § FILLING

	Diaphragm Filling		
Α	Standard silicone oil -40º+130ºC		
В	Hi-temp. silicone oil -30º+200ºC		
С	Fluorocarbon oil -30º+160ºC		
D	Glycerine-Water -5º+100°C		
E	Vegetable oil -5º+100ºC		

# 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