

Direct Threaded Diaphragm Seal

DS101 Series

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.. 400 bar
- Various liquid filling supported

Special



*Wetted parts PTFE coated



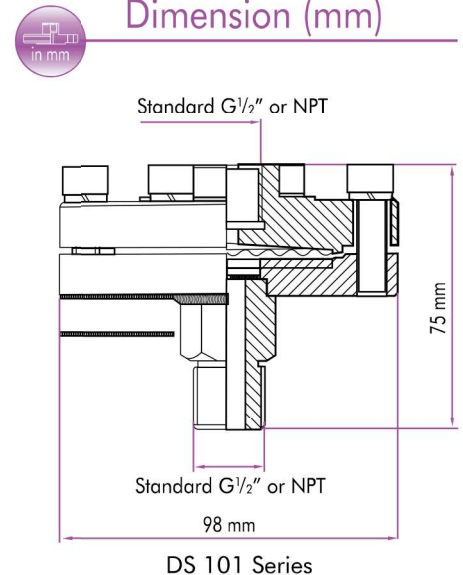
Technical Specification

- Model and pressure configuration
Pressure : 0.. 1 bar to 400 bar
Vacuum : -1.. 0 bar
Compound : -1..24 bar
- Body diameter size
Ø 98 mm
- Instrument / Process Connection Size
G $\frac{1}{2}$ 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 C1.. C3 (T> 100°C)

Material

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

Dimension (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	-5°..+ 70°C	1.27 g/cm2	Food, sanitary
Vegetable oil	-5°..+100°C	0.93 g/cm2	Food, sanitary

Ordering Code



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DS101 - Diaphragm^① - Process Connection^② - Filling^③ *Option^④

①	Diaphragm Material
SS	SS 316 L
TI	Titanium
TA	Tantalum
HC	Hastelloy (H276C)
MO	Monel (Cu30Ni70)
XX	Other material

②	Process Connection
G2	G $\frac{1}{2}$ "
N2	$\frac{1}{2}$ "NPT
G1	G 1"
N1	1" NPT
X	Other connection size

③	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 -5°..+ 70°C
E	Vegetable oil -5°..+100°C

④	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
CX	Cooling tower, C1.. C3

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