

Product Specifications

▼ **Diaphragm outer diameter**
90 mm

▼ **Structure**
Screw fixed type
Thread type

▼ **Liquid filling**
Glycerin, silicone oil
(depends on temperature)

▼ **Connection size**
1/4" ,3/8" ,1/2" ,3/4" ,1"

▼ **Connection specification**
BSPT, NPT, PF
(Male/Female thread)

▼ **Pressure range**
Min. 0.4 bar
Max. 60 bar

▼ **Applicable media**
Corrosive, crystallize, and
viscous media measurement

▼ **Ambient temperature**
10°C to 60°C

▼ **Media temperature**
Standard: +80°C
For media up to +200°C or
+400°C is available made-to-
order

▼ **Cleaning method**
Disassembly cleaning ▼
Remove the diaphragm to
clean the interior
Directly cleaning ▼
Install a cleaning hole to
directly clean the interior of
diaphragm

▼ **Upper flange material**
SS304 (Standard)
For other material please refer
to how to order table

▼ **Lower flange material**
SS304 (Standard)
For other material please refer
to how to order table

▼ **Diaphragm material**
SS316 (Standard)
For other material please refer
to how to order table

▼ **Gasket material**
Plastic

▼ **Screw & bolt material**
Stainless steel

▼ **Other requests (Option)**
Install a capillary
Install a heat pipe between
diaphragm and pressure
gauge
Capillary: copper for inner
layer, SS304 for outer layer
(Only for <40bar)
Capillary: SS304 for inner and
outer layer (Only for <40bar)

**Diaphragm Seal
(Screw Fixed Type)
Model: DS190(S)
Introduction**

Diaphragm seals generally install on pressure gauge, switch, transmitter and other instruments to protect diaphragm from corrosive, crystallized, viscous and high temperature media that may cause blockage or damage to pressure measurement system. Different materials and pressure range can be chosen according to actual using media, connected pressure gauges, operating temperature and other factors.

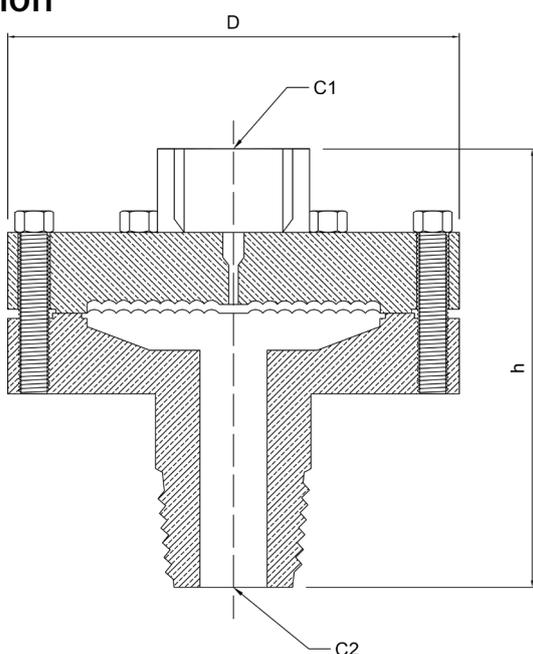


Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- Applicable to corrosive, crystallize, and viscous media
- Screw fixed type, install a cleaning hole to directly clean the interior of diaphragm is available
- With PTFE diaphragm, the min. measureable pressure is 4000mmH₂O (Option)

Dimension



(D)	C1	C2	h
∅90	1/2" BSP (F)	1/2" BSP (F)	69

Unit: mm

How to order

DS190 (S) Diaphragm Seal (Screw Fixed Type)									
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
U1	Upper flange material	U1	SS304	U2	SS316	U3	SS316L	U11	PTFE
		O	Others	–	–	–	–	–	–
D1	Diaphragm material	D1	SS316L	D11	PTFE	O	Others	–	–
L1	Lower flange material	L1	SS304	L2	SS316	L3	SS316L	L5	Hastelloy C276
		L11	PTFE	L12	PVC	O	Others	–	–
W1	Cleaning method	W1	Disassembly cleaning	W2	Directly cleaning with installing a cleaning hole				
Custom	Pressure range	-1...0...0.4 to 60bar							
4	Connection size	2	1/4"	3	3/8"	4	1/2"	6	3/4"
		8	1"	–	–	–	–	–	–
N	Connection spec.	P	BSP	N	NPT	F	PF	–	–
F	Connection type	M	Male thread	F	Female thread	–	–	–	–

Order example: DS190 (S) - U1 - D1 - L1 - W1 - (0...0.4 to 60bar) - 4 - N - F