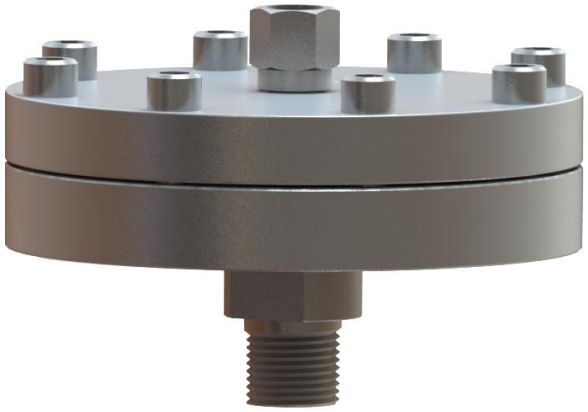
High Displacement Diaphragm Seal
Model DS25

ASME B40.100

Features

- High displacement of diaphragm
- Suitable for instruments with large displacement actuators
- Metal diaphragms with Teflon gasket
- Interchangeable components
- Removable top and bottom housing
- Variety of wetted parts materials



Ranges

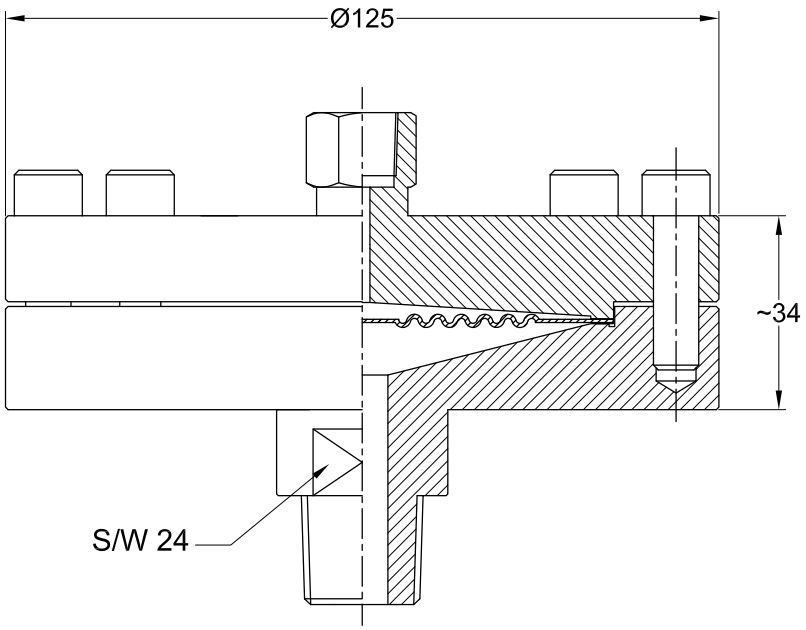
15 psi up to 1000 psi
1 kg/cm^2 up to 100 bar & kg/cm^2
100 kPa up to 10000 kPa

Applications

Chemical and petrochemical industry
Machine and apparatus construction
Offshore installations
Pulp and paper industry
Waste water treatment

Technical specification	DS25
Process connection size (ISO 228-1 / ASME B1.20.1)	1/4” 3/8” 1/2” BSP / NPT, M20x1.5, others on request
Construction Fill port Flushing connection Flushing connection size	Bolted top and bottom housing, removable for easy maintenance At the side with stainless steel ball and set screw Optional flushing 1/4” 1/2” NPT female
Maximum pressure Metal bottom housing [psi / bar] Other bottom housing [psi / bar]	 1500 / 100 150 / 10
Measuring principle	Diaphragm welded to top housing
Instrument connections [female]	3/8” BSP, 1/2” NPT, others on request
Material (wetted parts) Bottom housing Diaphragm (metal type) Diaphragm (other types)	 Stainless steel 316, 316L, 316 with teflon protection Stainless steel 316L Stainless steel 316L with teflon protection
Material (non wetted parts) Top housing Bolts and nuts	 Stainless steel 304, 316 Stainless steel 300 series
Accuracy	Additional 0,5 % to the specified tolerance of the mounted instrument
Filling liquids (temperature range)	Glycerin (0/400 °F, -18/204 °C), Silicone (-40/600 °F, -40/315 °C), Halocarbon (-70/300 °F, -56/149 °C), Syltherm 800 (-40/750 °F, -40/400 °C), Food grade silicone (-13/400 °F, -25/200 °C), Others on request, also depending on selected material and configuration.
Mounting	Direct or with capillary
Accessories, options	NACE, Diff. pressure gauges, Diff. pressure switches, transducers, capillaries

General dimensions in mm



Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Filling fluid	Options
(06) 1" NPT(M)	**DS25**	**(S)** 316L	**(S)** 316	**(14T)** 3/8" BSP(F)	**(CG)** Glycerin (direct mounted, -18/204 °C)	**(NH)** Tagging wired
(05) 3/4" NPT(M)		**(SJ)** 316L with teflon Coating [1]	**(L)** 316L	**(04T)** 1/2" NPT(F)	**(CK)** Silicone (direct mounted or with capillary, -40/315 °C)	**(OF)** Oil free (only filled with halocarbon)
(04) 1/2" NPT(M)			**(SP)** 316 with teflon lined [1]		**(CF)** Halocarbon (direct mounted or with capillary, -56/149 °C)	**(YT)** Stainless steel 316 top housing
(03) 3/8" NPT(M)					**(HA)** Syltherm 800 (direct mounted or with capillary, -40/400 °C)	**(SR4)** Spacer ring with 1/2" NPT flushing
(02) 1/4" NPT(M)					**(CZ)** Food grade silicone (direct mounted or with capillary, -25/200 °C)	**(SR2)** Spacer ring with 1/4" NPT flushing
(18) 1" BSP(M)						**(CA)** Stainless steel armored capillary [3]
(17) 3/4" BSP(M)						**(CP)** Stainless steel armored capillary with PVC sleeving [3]
(15) 1/2" BSP(M)						
(14) 3/8" BSP(M)						
(13) 1/4" BSP(M)						
(16) M20x1.5(M)						
(06T) 1" NPT(F)						
(05T) 3/4" NPT(F)						
(04T) 1/2" NPT(F)						
(02T) 1/4" NPT(F)					others on request	3) Max length 30m, specify length in meter EG. CP1.0 = CP with 1m

1) Restricted to maximum temperature 200 °C, not available with option SR2, SR4 2) The DIN-flange facing depends on nominal size and nominal pressure

How to order

Process connection	Type	Diaphragm capsule material	Bottom housing material	Instrument connection	Filling fluid	Option
15	DS25	S	S	14T	CK	CA1.0

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