Diaphragm seals threaded types
Model DS20

Threaded connections to ANSI/ASME or ISO

Features

- 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 70 kg/cm^2

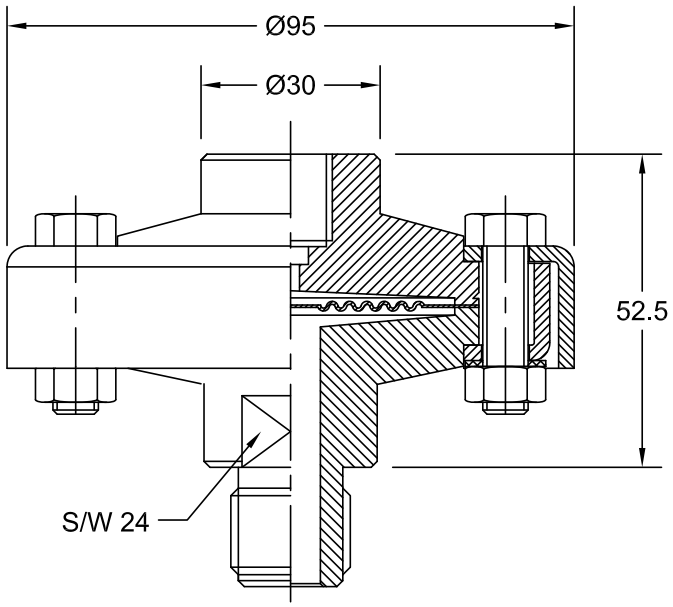
Applications

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

Technical specification	DS20
Process connection size	1/4” 3/8” 1/2” BSP / NPT , M20x1.5
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 Standard [kg/cm^2]	 70
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, Polypropylene, PVC, SS 316 with Teflon protection, Hasteloy-C 276 Stainless steel 316L Optional Hasteloy-C276 Stainless steel 316L with Teflon protection
Material (non wetted parts) Top housing Clamps, rings Bolts and nuts	 Stainless steel 304, optional 316 Steel painted black, optional stainless 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), Vegetable oil (32/248 °F, 0/120 °C), Others on request, also depending on selected material and configuration.
Mounting	Direct or with capillary
Weight in kg	1.00
Accessories, options	NACE, pressure gauges, pressure switches, transducer, capillaries

All specifications are subject to change without notice.

General dimensions in mm



Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Filling fluid	Options
(06) 1" NPT(M)	**DS20**	**(S)** 316L	**(S)** 316	**(14T)** 3/8" BSP (F)	**(CG)** Glycerin (direct mounted, -18/204 °C)	**(NH)** Tagging wired
(05) 3/4" NPT(M)		**(SP)** 316L with teflon protection[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)		**(SJ)** 316L with teflon Coating[1)]	**(SP)** 316 with teflon lined [1)3)]		**(CF)** Halocarbon (direct mounted or with capillary, -56/149 °C)	**(YT)** Stainless steel 316 top housing
(03) 3/8" NPT(M)		**(H)** Hasteloy-C276	**(PP)** Polypropylene [1)2)]		**(HA)** Syltherm 800 (direct mounted or with capillary, -40/400 °C)	**(SE)** Stainless steel clamp rings
(02) 1/4" NPT(M)			**(V)** PVC [1)2)]		**(GZ)** Vegetable oil (direct mounted or with capillary, 0/120 °C)	**(PU)** Flushing connection 1/4" NPT (F)[5)]
(18) 1" BSP(M)			**(H)** Hasteloy-C276			**(CA)** Stainless steel armored capillary [4)]
(17) 3/4" BSP(M)						**(CP)** Stainless steel armored capillary with PVC sleeving [4)]
(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	4) Max length 30m, specify length in mm EG. CP1000 = CP with 1m

1) Restricted to maximum temperature 200 °C
2) Max. Rating / temperature limit: 200 psi/14 bar at 74 °F/23 °C; 125 psi/8.6 bar at 125 °F/52 °C; 80 psi/5,5 bar at 150 °F/65 °C
3) Not for process connection (02), (13), (06T), (05T), (04T), (02T) , not available with option PU
5) Not for (SP), (PP)& (V)

How to order

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Filling fluid	Option
04	DS20	S	S	14T	CK	CA1000

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