Diaphragm seals threaded types
Model DS21

Threaded connections to ANSI/ASME or ISO

Features

- Removable diaphragm seal capsule
- Interchangeable components
- Removable top and bottom housing
- Variety of wetted parts materials



Ranges

15 psi up to 1,500 psi
1 kg/cm^2 up to 100 kg/cm^2

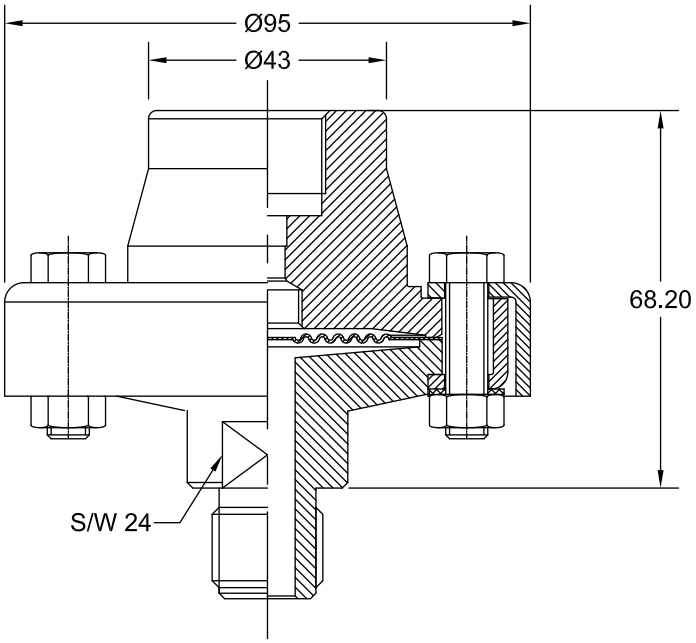
Applications

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

Technical specification	DS21
Process connection size	1/4” 3/8” 1/2” BSP / NPT, M20x1.5
Construction	Bolted top and bottom housing, removable for easy maintenance and changeable capsules
Fill port	At the side with stainless steel ball and set screw
Flushing connection	Optional flushing
Flushing connection size	1/4” 1/2” NPT female
Maximum pressure	
Standard [kg/cm^2]	70
With high pressure ring [kg/cm^2]	100
Measuring principle	Screwed capsule
Instrument connections [female]	3/8” BSP, 1/2” NPT, others on request
Material (wetted parts)	
Bottom housing	Stainless steel 316, Polypropylene, PVC, Monel, Hastelloy C, SS 316 with teflon protection,
Diaphragm (metal type)	Stainless steel 316L (1.4404), stainless steel 304L (1.4306), K-Monel, Hastelloy C, Hastelloy B, Nickel, Carpenter 20, Tantalum
Material (non wetted parts)	
Top housing	Stainless steel 304, optional 316
Clamps, rings	Steel painted black, optional stainless
Bolts and nuts	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	1.32
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)	**DS21**	**(S)** 316L	**(S)** 316	**(14T)** 3/8 BSP (F)	**(CG)** Glycerin (direct mounted, -18/204 °C)	**(NH)** Tagging wired
(05) 3/4" NPT(M)		**(C)** 304L	**(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)		**(D)** Carpenter 20	**(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)		**(G)** Hastelloy B	**(PP)** Polypropylene [2)]		**(HA)** Syltherm 800 (direct mounted or with capillary, -40/400 °C)	**(SE)** Stainless steel clamp rings
(02) 1/4" NPT(M)		**(H)** Hastelloy C	**(V)** PVC [2)]		**(GZ)** Vegetable oil (direct mounted or with capillary, 0/120 °C)	**(PU)** Flushing connection 1/4" NPT (F)[5)]
(18) 1" BSP(M)		**(N)** Nickel	**(H)** Hastelloy C			**(CA)** Stainless steel armored capillary [4)]
(17) 3/4" BSP(M)		**(P)** K-Monel	**(M)** Monel 400			**(CP)** Stainless steel armored capillary with PVC sleeving [4)]
(15) 1/2" BSP(M)		**(U)** Tantalum				
(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, pressure 40 bar
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	DS21	S	S	14T	CK	CA1000

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