

Diaphragm seals threaded types **Model DS21**

ASME B40.100

Features

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

Ranges

15 psi up to 1000 psi 1 kg/cm² up to 100 bar & kg/cm² 100 kPa up to 10000 kPa

Applications

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

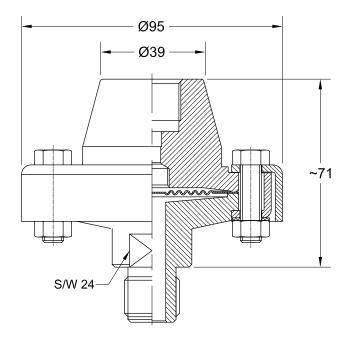


Technical specification	DS21
Process connection size (ISO 228-1 / ASME B1.20.1)	1/4" 3/8" 1/2" BSP / NPT, M20x1.5, others on request
Construction Fill port	Bolted top and bottom housing, removable for easy maintenance and changeable capsules At the side with stainless steel ball and set screw
Flushing connection	Optional flushing
Flushing connection size	1/4" NPT female
Maximum pressure	
Metal bottom housing [psi / bar]	1500 / 100
Other bottom housing [psi / bar]	150 / 10
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, Hasteloy-C 276, SS 316 with teflon
Diaphragm (metal type)	protection, Stainless steel 316L (1.4404), stainless steel 304L (1.4306), K-Monel, Hasteloy-C 276, Hastelloy B, Nickel, Carpenter 20, Tantalum
Material (non-wetted parts)	
Top housing	Stainless steel 304, optional 316
Clamp 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),
	Food grade silicone (-13/400 °F, -25/200 °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

18/01/2018



General dimensions in mm



Order information

Process connection	Туре	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,	(NH) Tagging wired
(05) 3/4" NPT(M)		(C) 304L	(L) 316L	(04T) 1/2" NPT (F)	*	(OF) Oil free (only filled with halocarbon)
(04) 1/2" NPT(M)		(D) Carpenter 20	(SP) 316 with teflon lined 1)3)		(CK) Silicone (direct mounted or with	(YT) Stainless steel 316 top
(03) 3/8" NPT(M)					capillary, -40/315 °C)	housing
(02) 1/4" NPT(M)		(G) Hastelloy B	(PP) Polypropylene 2)		(CF) Halocarbon (direct mounted or with	(SE) Stainless steel clamp
(18) 1" BSP(M)		(H) Hastelloy C	(V) PVC ²⁾		capillary, -56/149 °C)	rings
		(N) Nickel	(H) Hastelloy C		(HA) Syltherm 800 (direct mounted or with	(PU) Flushing connection
(17) 3/4" BSP(M)		(P) K-Monel	(M) Monel 400		capillary, -40/400 °C)	1/4" NPT (F) ⁵⁾
(15) 1/2" BSP(M)		(U) Tantalum			(GZ) Vegetable oil	(CA) Stainless steel armore capillary 4)
(14) 3/8" BSP(M)		(C) ramaiam			(direct mounted or with capillary, 0/120 °C)	. ,
(13) 1/4" BSP(M)					(CZ) Food grade	(CP) Stainless steel armored capillary with PVC
(16) M20x1.5(M)					silicone (direct mounted or with capillary, -25/200 °C)	sleeving 4)
(06T) 1" NPT(F)					, ,	
(05T) 3/4" NPT(F)						
(04T) 1/2" NPT(F)						
(02T) 1/4" NPT(F)					4) Max length 30m, specify length in meter	
. , , ,		200 %C management 40 h			others on request	EG. CP1.0 = CP with 1m

How to order

Process Type connection		Diaphragm	Bottom housing material	Instrument connection	Filling fluid	Option
04	DS21	S	S	14T	CK	CA1.0

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)