

Diaphragm seals threaded types Model DS20

ASME B40.100

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/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

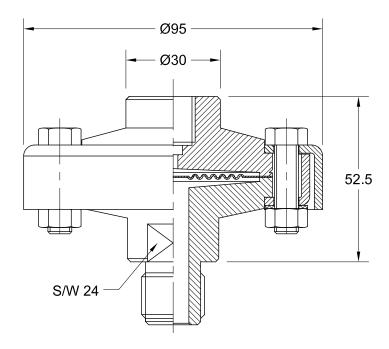


Technical specification	DS20					
Process connection size	1/4" 3/8" 1/2" BSP / NPT, M20x1.5, others on request					
(ISO 228-1 / ASME B1.20.1)	The order of the control of the cont					
Construction	Bolted top and bottom housing, removable for easy maintenance					
Fill port	At the side with stainless 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	Diaphragm welded to top housing					
Instrument connections [female]	3/8" BSP, 1/2" NPT, others on request					
Material (wetted parts)						
Bottom housing	Stainless steel 316, 316L, Polypropylene, PVC, SS 316 with Teflon protection, Hasteloy-C 276					
Diaphragm (metal type)	Stainless steel 316L Optional Hasteloy-C276					
Diaphragm (other types)	Stainless steel 316L with Teflon protection					
Material (non wetted parts)						
Top housing	Stainless steel 304, optional 316					
Clamp rings	Steel painted black, optional stainless steel					
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	1.00					
Accessories, options NACE, pressure gauges, pressure switches, transducer, capillaries						

18/01/2018



General dimensions in mm



Order information

Process Type		Diaphragm		Bot	tom housing	Instrument		Fillir	Filling fluid		ns
connection		_	_	mat	terial	conn	ection				
(06) 1" NPT(M)	DS20	(S)	316L	(S)	316	(14T)		(CG)	Glycerin	(NH)	Tagging wired
(05) 3/4" NPT(M)		(SP)	316L with teflon	(L)	316L	(04T)	BSP (F)		(direct mounted, -18/204 °C)	(OF)	Oil free (only filled with halocarbon)
(04) 1/2" NPT(M)			protection 1)	(SP)316 with teflon lined ¹⁾³⁾	(011)	NPT (F)	(CK)	Silicone (direct mounted or with capillary, -40/315 °C)	(YT)	Stainless steel 316 top
(03) 3/8" NPT(M)		(SJ)		/	1)2)				, ,, ,		housing
(02) 1/4" NPT(M)			teflon Coating 1)	-) Polypropylene 1)2) PVC 1)2)			(CF)	Halocarbon (direct mounted or with capillary, -56/149 °C)	(SE)	Stainless steel clamp rings
(18) 1" BSP(M)		(H)	Hastelloy C	(•)	1 10				, ,, ,		Ü
(17) 3/4" BSP(M)		,		(H)	Hastelloy C			(HA)	Syltherm 800 (direct mounted or with capillary, -40/400 °C)	(PU)	Flushing connection 1/4" NPT (F) 5)
(15) 1/2" BSP(M)								(GZ)	Vegetable oil	(CA)	Stainless steel armored capillary 4)
(14) 3/8" BSP(M)									(direct mounted or with capillary, 0/120 °C)		. ,
(13) 1/4" BSP(M)								(CZ)	Food grade silicone	(CP)	Stainless steel armored capillary with PVC sleeving 4)
(16) M20x1.5(M)									(direct mounted or with capillary, -25/200 °C)		Sieeving ·
(06T) 1" NPT(F)									Capitally, -20/200 0)		
(05T) 3/4" NPT(F)											
(04T) 1/2" NPT(F)											
(02T) 1/4" NPT(F)								others	on request	met	k length 30m, specify length in ter . CP1.0 = CP with 1m

How to order

Process	Type	Diaphragm	Bottom housing	Instrument	Filling fluid	Option
connection			material	connection		
04	DS20	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)