

Diaphragm seals flanged types

Model DF20

Flanged connections to ANSI/ASME or EN

Features

- Metal diaphragms with Teflon gasket
- Removable top and bottom housing
- Variety of wetted parts materials

Pressure rating

From 150 lbs up to 1500 lbs

From PN10 up to PN100

Applications

Chemical and petrochemical industry

Machine and apparatus construction

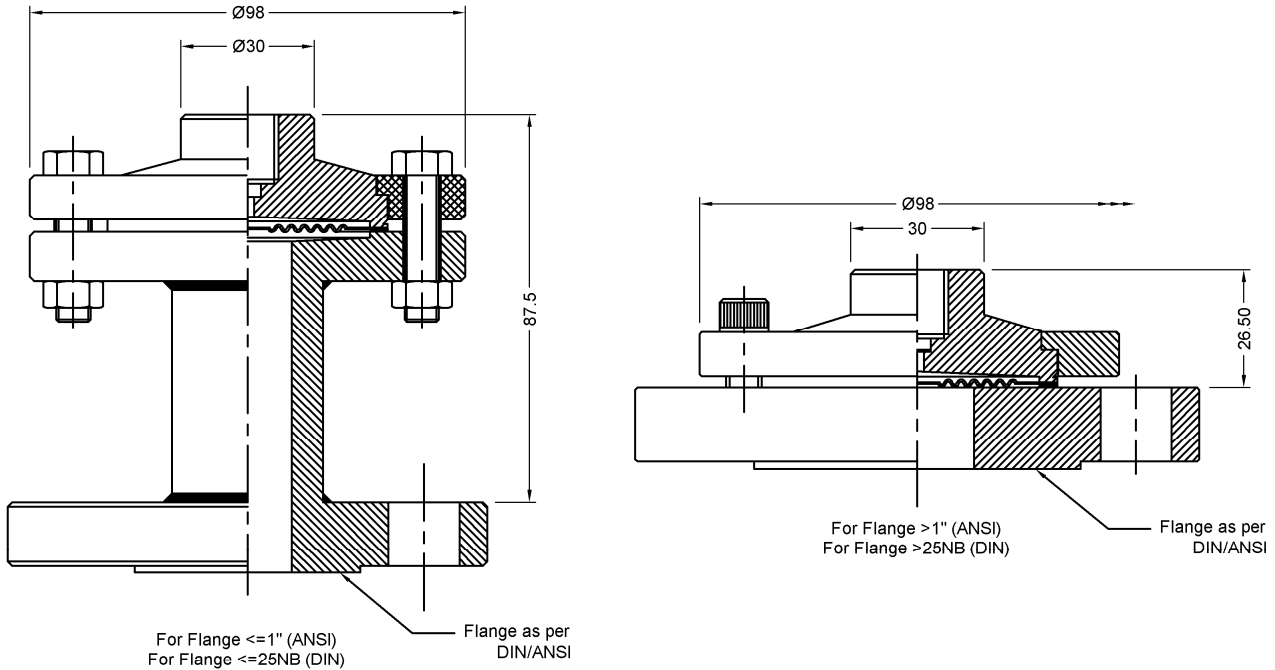
Offshore installations

Pulp and paper industry

Waste water treatment

Technical specification		DF20
Process connection size, flanged	ANSI DIN	1/2", 3/4", 1", 1 1/2", 2", 3" DN15, DN25, DN40, DN50, DN80, others on request
Rating	ANSI DIN	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs PN10, PN16, PN25, PN40, PN64, PN100, others on request
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" 1/2" NPT female
Maximum pressure		
Metal bottom housing [lbs/PN]		1500/100
Other bottom housing [lbs/PN]		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, 316 with teflon protection, polypropylene, PVC
Diaphragm (metal type)		Stainless steel 316L
Diaphragm (other types)		Stainless steel 316L with teflon protection
Material (non wetted parts)		
Top housing		Stainless steel 304, 316
Clamps, 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) Others on request, also depending on selected material and configuration.
Mounting		Direct or with capillary
Weight dry in kg		
Accessories, options		NACE, pressure gauges, pressure switches, transducers, capillaries

General dimensions in mm



Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Rating	Flange facing	Filling fluid	Options					
ANSI Flanged	DF20	(S) 316L (SP) 316L with teflon protection ¹⁾	(S) 316 (L) 316L (SP) 316 with teflon lined (PP) Polypropylene ³⁾ (V) PVC ³⁾	(14T) 3/8 BSP(F) (04T) 1/2" NPT(F)	ANSI (150) 150 lbs (300) 300 lbs (600) 600 lbs (900) 900 lbs (1500) 1500 lbs	(FF) Flat face ²⁾ (RF) Raised face ²⁾ (RTJ) Ring joint type ²⁾	(CG) Glycerin (direct mounted, -18/204 °C) (CK) Silicone (direct mounted or with capillary, -40/315 °C) (CF) Halocarbon (direct mounted or with capillary, -56/149 °C) (HA) Syltherm 800 (direct mounted or with capillary, -40/400 °C) (GZ) Vegetable oil (direct mounted or with capillary, 0/120 °C)	(NH) Tagging wired (OF) Oil free (only filled with halocarbon) (YT) Stainless steel 316 top housing (SE) Stainless steel clamp rings (SR4) Spacer ring with 1/2" NPT flushing (SR2) Spacer ring with 1/4" NPT flushing (CA) Stainless steel armored capillary ⁴⁾ (CP) Stainless steel armored capillary with PVC sleeving ⁴⁾					
DIN Flanged									(DN15) (DN25) (DN40) (DN50) (DN80)	(PN10) (PN16) (PN25) (PN40) (PN64) (PN100)	others on request	others on request	⁴⁾ Max length 30m, specify length in mm EG. CP1000 = CP with 1m

1) Restricted to temperature 65 °C 2) The DIN-flange facing depends on nominal size and nominal pressure
 3) Only ¼ and ½ NPT, max. Rating/temp. 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

How to order

Process connection	Type	Diaphragm capsule material	Bottom housing material	Instrument connection	Filling fluid	Option
04	DF20	S	S	14T	CK	CA1000

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