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

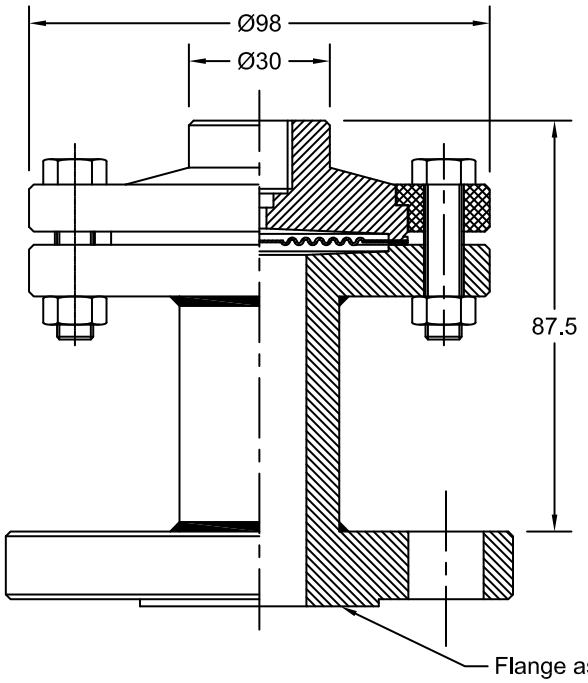
Applications

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

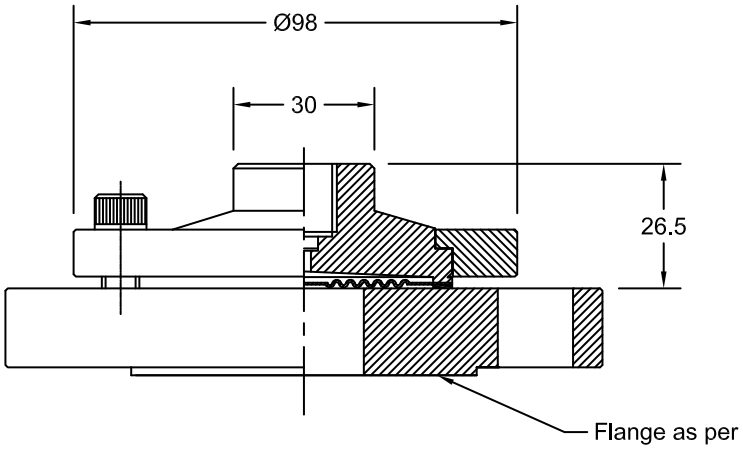
Technical specification		DF20
Process connection size, flanged	ANSI DIN	1/2", 3/4", 1", 1 ½", 2", 3" DN15, DN25, DN40, DN50, DN80, others on request
Rating	ANSI DIN	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs PN10, PN16, PN25, PN40, PN64, PN100, others on request
Construction Fill port Flushing connection 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 Metal bottom housing [lbs/PN] Other bottom housing [lbs/PN]		 1500/100 150/10
Measuring principle		Diaphragm welded to top housing
Instrument connections [female]		3/8” BSP, 1/2” NPT, others on request
Material (wetted parts) Bottom housing Diaphragm (metal type) Diaphragm (other types)		 Stainless steel 316, 316L, 316 with teflon protection, polypropylene, PVC Stainless steel 316L Stainless steel 316L with teflon protection
Material (non wetted parts) Top housing Clamps, rings Bolts and nuts		 Stainless steel 304, 316 Steel painted black, optional stainless steel 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
Accessories, options		NACE, pressure gauges, pressure switches, transducers, capillaries

All specifications are subject to change without notice.

General dimensions in mm



For Flange <=1" (ANSI)
For Flange <=25NB (DIN)



For Flange >1" (ANSI)
For Flange >25NB (DIN)

Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Rating	Flange facing	Filling fluid	Options
ANSI Flanged **(05)** 1/2" **(07)** 3/4" **(10)** 1" **(15)** 1 ½" **(20)** 2" **(30)** 3"	**DF20**	**(S)** 316L **(SP)** 316L with teflon protection[1)] **(SJ)** 316L with teflon Coating[1)] **(H)** Hasteloy-C276	**(S)** 316 **(L)** 316L **(SP)** 316 with teflon lined[1)] **(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 **DIN** **(PN10)** **(PN16)** **(PN25)** **(PN40)** **(PN64)** **(PN100)** others on request	**(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) others on request	**(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[5)] **(SR2)** Spacer ring with 1/4" NPT flushing[5)] **(CA)** Stainless steel armored capillary[4)] **(CP)** Stainless steel armored capillary with PVC sleeving[4)] 4) Max length 30m, specify length in mm EG. CP1000 = CP with 1m

1) Restricted to maximum temperature 200 °C, not available with option SR2, SR4 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
5) Not for (SP), (PP)& (V)

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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