

Diaphragm seals flanged types

Model DF22

ASME B40.100

Features

- Removable diaphragm seal capsule
- 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 PN6 up to PN100

Applications

Chemical and petrochemical industry

Machine and apparatus construction

Offshore installations

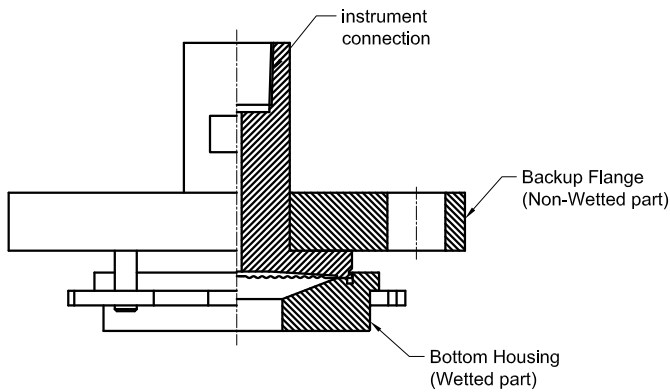
Pulp and paper industry

Waste water treatment

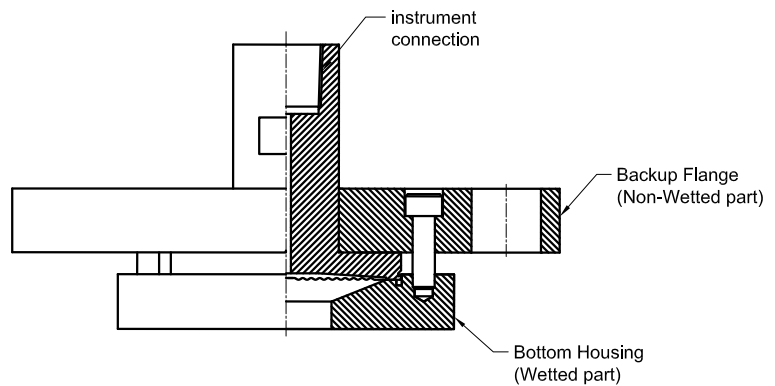


Technical specification	DF22	
Process connection size, flanged		
ASME B16.5	ANSI	1", 1.5", 2", 3"
EN 1092-1	DIN	DN25, DN40, DN50, DN80, others on request
Rating	ANSI	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs
	DIN	PN10, PN16, PN25, PN40, PN64, PN100, others on request
Construction		Bolted top and bottom 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
Instrument connections [female]		1/4" NPT, 3/8" BSP, 1/2" NPT, others on request
Material (wetted parts)		
Bottom housing		Stainless steel 316L, 316L with PTFE protection, Hastelloy, Monel, Inconel, Incoloy
Diaphragm		Stainless steel 316L, 304L, Carpenter 20, Hastelloy B, Hastelloy C, Nickel, Monel, Tantalum, 316L with PFA protection
Material (non wetted parts)		
Top housing		Stainless steel 304, 316L
Holding Flange (back-up Flange)		Stainless steel 304, optional Stainless steel 316L
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 (-50/400 °F, -45/205 °C), Halocarbon (-50/320 °F, -45/160 °C), Syltherm 800 (-40/750 °F, -40/400 °C), Vegetable oil (32/248 °F, 0/120 °C), Food grade silicone (5/570 °F, -15/300 °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

General dimensions in mm



For Flange 1" & 1.5"



For Flange 2" & 3"

Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Rating	Flange facing	Filling fluid	Length of Capillary														
ANSI Flanged (10) 1" (15) 1 1/2" (20) 2" (30) 3"	DF22	(S) SS316L	(S) SS316L	(02T) 1/4" NPT(F)	ANSI (150) 150 lbs (300) 300 lbs (600) 600 lbs (900) 900 lbs (1500) 1500 lbs	(RF) Raised face ²⁾	(CG) Glycerin (direct mounted, -18/204 °C)	(CA) Stainless steel armored capillary ³⁾														
		(C) SS304L	(SP) SS316L PTFE lined ¹⁾	(14T) 3/8" BSP(F)					(CK) Silicone (direct mounted or with capillary, -45/205 °C)	(CP) Stainless steel armored capillary with PVC protection ³⁾												
		(D) Carpenter 20	(H) Hastelloy C276	(04T) 1/2" NPT(F)							(CF) Halocarbon (direct mounted or with capillary, -45/160 °C)	(NH) SS wired tag										
		(G) Hastelloy B	(M) Monel 400	(C) SS 304 (S) SS316L									(HA) Syltherm 800 (direct mounted or with capillary, -40/400 °C)	(YT) SS316L top housing								
		(H) Hastelloy C276	(I6) Inconel 600												(GZ) Vegetable oil (direct mounted or with capillary, 0/120 °C)	(SE) Stainless steel rings and bolts						
		(N) Nickel	(I8) Incoloy 800														(CZ) Food grade silicone (direct mounted or with capillary, -15/300 °C)	(SR4) Spacer ring with 1/2" NPT flushing				
		(P) Monel 400	(DN) others on request																(SR2) Spacer ring with 1/4" NPT flushing			
		(U) Tantalum																		(CN) others on request	(Certificate)	
		(SP) SS316L PTFE protected ¹⁾																				(CD3) 3.1 Material Certi.
		(SJ) SS316L PFA Coated ¹⁾																				

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) Max length 30m, specify length in meter EG. CP1.0 = CP with 1m

How to order

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Rating	Flange facing	Flange material	Filling fluid	Length of Capillary	Options	Certificate
15	DF22	S	L	14T	300	RF	S	CK	CA1.0	NH	CD3

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