

# Diaphragm seals flanged types

## Model DF21

Flanged connections to ANSI/ASME or EN

### 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

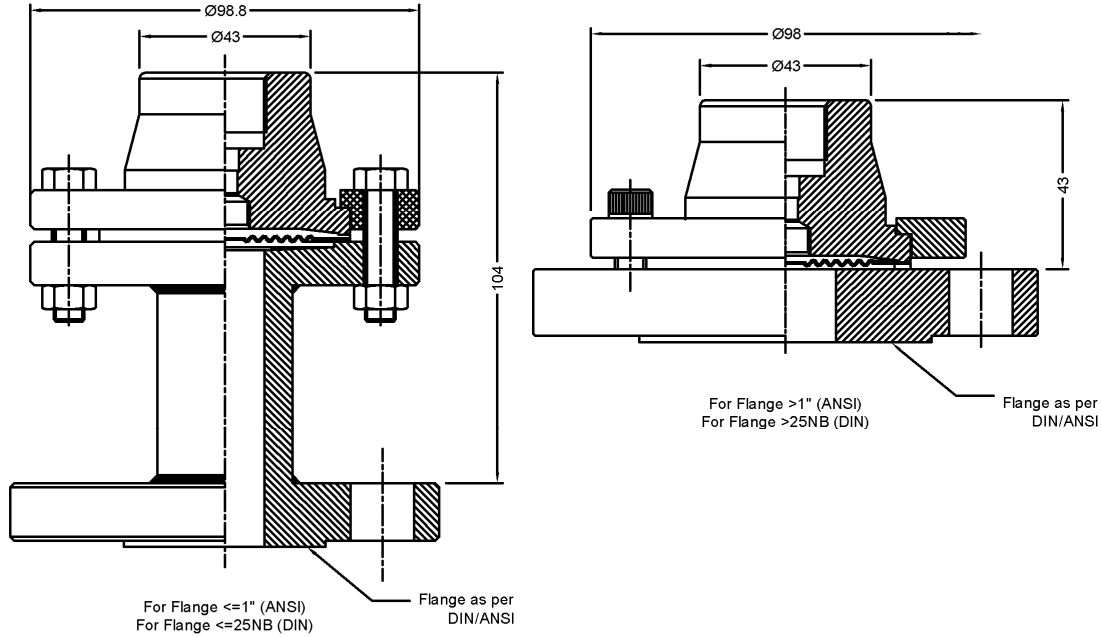
Waste water treatment

Technical specification	DF21	
Process connection size, flanged	ANSI	1/2", 3/4", 1", 1 1/2", 2", 3"
Rating	DIN	DN15, DN25, DN40, DN50, DN80, others on request
	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	Screwed capsule 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, Hastelloy-C, Monel	
Diaphragm (metal type)	Stainless steel 316L, 304L, Carpenter 20, Hastelloy B, Hastelloy C, Nickel, K-Monel, Tantalum	
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	

All specifications are subject to change without notice.

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### General dimensions in mm



### Order information

Process connection	Type	Diaphragm	Bottom housing material	Instrument connection	Rating	Flange facing	Filling fluid	Options						
<b>ANSI Flanged</b> (05) 1/2" (07) 3/4" (10) 1" (15) 1 1/2" (20) 2" (30) 3"	DF21	(S) 316L	(S) 316	(14T) 3/8 BSP(F)	<b>ANSI</b> (150) 150 lbs (300) 300 lbs (600) 600 lbs (900) 900 lbs (1500) 1500 lbs	(FF) Flat face <sup>2)</sup> (RF) Raised face <sup>2)</sup> (RTJ) Ring joint type <sup>2)</sup>	(CG) Glycerin (direct mounted, -18/204 °C)	(NH) Tagging wired						
		(C) 304L	(L) 316L	(04T) 1/2" NPT(F)					(OF) Oil free (only filled with halocarbon)					
		(D) Carpenter 20	(SP) 316 with teflon lined <sup>1)</sup>						(YT) Stainless steel 316 top housing					
		(G) Hastelloy B	(PP) Polypropylene <sup>3)</sup>						(SE) Stainless steel clamp rings					
		(H) Hastelloy C	(V) PVC <sup>3)</sup>						(SR4) Spacer ring with 1/2" NPT flushing					
		(N) Nickel	(H) Hastelloy C						(SR2) Spacer ring with 1/4" NPT flushing					
		(P) K-Monel	(M) Monel						(CA) Stainless steel armored capillary <sup>4)</sup>					
		(U) Tantalum							(CP) Stainless steel armored capillary with PVC sleeving <sup>4)</sup>					
		<b>DIN Flanged</b> (DN15) (DN25) (DN40) (DN50) (DN80)									<b>DIN</b> (PN10) (PN16) (PN25) (PN40) (PN64) (PN100)		(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)	

1) Restricted to temperature 65 °C 2) The DIN-flange facing depends on nominal size and nominal pressure  
3) 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	Rating	Flange facing	Filling fluid	Option
15	DF21	S	S	14T	300	RF	CK	CA1000

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