

Diaphragm seals pancake type

Model DF52

ASME B40.100

Features

- Wafer “pancake” type construction
- Flushed diaphragm
- Variety of wetted parts materials
- Suitable for slurry & high viscous service

Size

2” to 5” ASME/ANSI

DN50 to DN125

Applications

Chemical and petrochemical industry

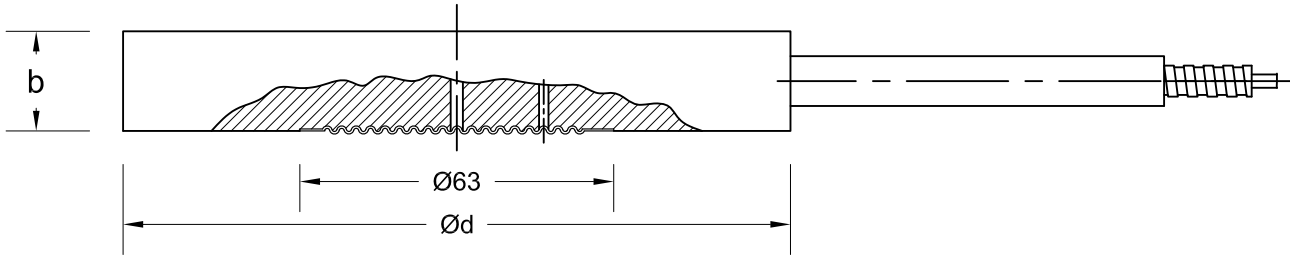
Offshore installations

Pulp and paper industry



Technical specification	DF52			
Process connection size, flanged				
ASME B16.5	ANSI	2", 3", 4", 5"		
EN 1092-1	DIN	DN50, DN80, DN100, DN125		
Back up flange Rating	ANSI	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs		
	DIN	PN10, PN16, PN25, PN40, PN64, PN100, others on request		
Construction	Flush welded diaphragm			
Fill port	At the top with stainless steel ball and set screw			
Flushing connection	Flushing through spacer ring			
Flushing connection size	1/4" or 1/2" NPT female			
Maximum pressure	According to flange rating			
Measuring principle	Metallic diaphragm			
Instrument connections [female]	3/8" BSP(F) or 1/2" NPT(F) through capillary			
Material (wetted parts)				
Diaphragm & contact surface	Stainless steel 316L, 316L with PTFE protection, Gold coated, Hastelloy-C276, Monel			
Material (non wetted parts)				
Counter Flange	Stainless steel 304, 316, Carbon Steel			
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	With capillary			
Weight dry without capillary in kg	2"/DN50	3"/DN80	4"/DN100	5"/DN125
	1.4	2.5	3.5	5.0
Accessories, options	NACE, pressure gauges, pressure switches, transducers, capillaries			

General dimensions in mm



DIN FLANGE

DN [mm]	PN [bar]	Dimensions [mm]	
		Ød	b
50	10....100	102	20
80	10....100	138	20
100	10....100	162	20
125	10....100	188	22

ANSI FLANGE

DN [in.]	PN [class]	Dimensions [mm]	
		Ød	b
2	150....1500	92	20
3	150....1500	127	20
4	150....1500	157	20
5	150....1500	186	22

Order information

Process Size	Type	Diaphragm material	Bottom housing material	Instrument connection	Backup Flange Rating	Flange Facing	Backup Flange Material	Filling fluid	Options	
ANSI Flanged (20) 2" (30) 3" (40) 4" (50) 5"	DF52	(S) 316L	(S) 316	(14T) 3/8" BSP(F)	ANSI	(RF) Raised face ²⁾	(NA) No backup flange	(CG) Glycerin (direct mounted, -18/204 °C)	(NH) Tagging wired	
		(SJ) 316 with teflon coating ¹⁾	(L) 316L	(04T) 1/2" NPT(F)	(NA) Not applicable	(RTJ) Ring joint type ²⁾	(C) SS 304	(CK) Silicone (direct mounted or with capillary, -40/315 °C)	(OF) Oil free (only filled with halocarbon)	
		(SG) 316 with GOLD coating	(SJ) 316 with teflon coating ¹⁾		(150) 150 lbs		(S) SS 316	(CF) Halocarbon (direct mounted or with capillary, -56/149 °C)	(SR4) Spacer ring with 1/2" NPT flushing ³⁾	
		(H) Hastelloy C 276	(SG) 316 with GOLD coating		(300) 300 lbs		(CS) Carbon steel	(HA) Syltherm 800 (direct mounted or with capillary, -40/400 °C)	(SR2) Spacer ring with 1/4" NPT flushing ³⁾	
		(M) Monel	(H) Hastelloy C 276		(600) 600 lbs			(GZ) Vegetable oil (direct mounted or with capillary, 0/120 °C)	(CA) Stainless steel armored capillary ⁴⁾	
DIN Flanged (DN50) (DN80) (DN100) (DN125)			(M) Monel		DIN			(CZ) Food grade silicone (direct mounted or with capillary, -25/200 °C)	(CP) Stainless steel armored capillary with PVC sleeving ⁴⁾	
					(NA) Not applicable					
					(PN10)					
					(PN16)					
					(PN25)					
			(PN40)							
			(PN64)							
			(PN100)							

1) Restricted to temperature 200 °C 2) The DIN-flange facing depends on nominal size and nominal pressure

3) Not for (SJ) & (SG)

How to order

Process Size	Type	Wetted Parts	Instrument connection	Backup flange rating	Backup flange material	Filling fluid	Options
30	DF52	S	14T	300	CS	CK	CA1.0

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