

# 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

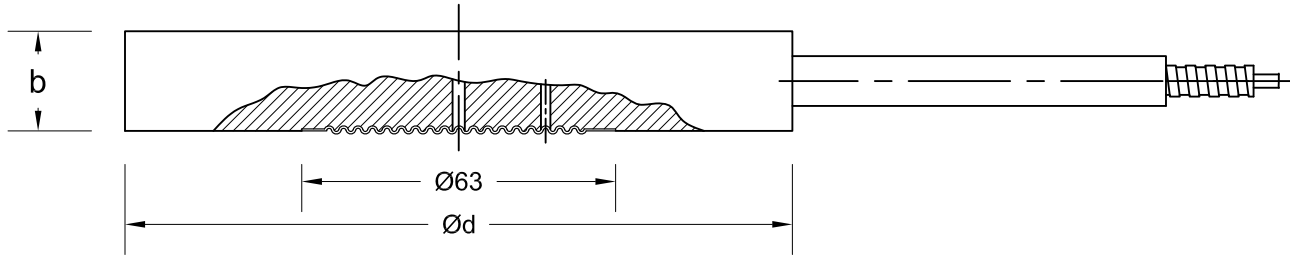
### Applications

Chemical and petrochemical industry  
Offshore installations  
Pulp and paper industry



Technical specification		DF52			
Process connection size, flanged		2", 3", 4", 5"			
ASME B16.5	ANSI	DN50, DN80, DN100, DN125			
EN 1092-1	DIN				
Back up flange Rating	ANSI DIN	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs 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)		Stainless steel 316L, 316L with PFA protection, Gold Plated, Hastelloy C276, Monel			
Material (non wetted parts)		Stainless steel 304, 316L, Carbon Steel			
Counter Flange					
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		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	Bottom housing material	Instrument connection	Backup Flange Rating	Flange Facing	Backup Flange Material	Filling fluid	Length of Capillary
<b>ANSI Flanged</b> (20) 2" (30) 3" (40) 4" (50) 5"	DF52	(S) SS316L	(S) SS316L	(14T) 3/8" BSP(F)	<b>ANSI</b> (NA) Not applicable (150) 150 lbs (300) 300 lbs (600) 600 lbs (900) 900 lbs (1500) 1500 lbs	<b>(RF)</b> Raised face <sup>2)</sup> <b>(RTJ)</b> Ring joint type <sub>2)</sub>	<b>(NA)</b> No backup flange <b>(C)</b> SS 304 <b>(S)</b> SS316L <b>(CS)</b> Carbon steel	<b>(CG)</b> Glycerin (direct mounted, -18/204 °C) <b>(CK)</b> Silicone (direct mounted or with capillary, -45/205 °C) <b>(CF)</b> Halocarbon (direct mounted or with capillary, -45/160 °C) <b>(HA)</b> Syltherm 800 (direct mounted or with capillary, -40/400 °C) <b>(GZ)</b> Vegetable oil (direct mounted or with capillary, 0/120 °C) <b>(CZ)</b> Food grade silicone (direct mounted or with capillary, -15/300 °C)	<b>(CA)</b> Stainless steel armored capillary <sup>3)</sup> <b>(CP)</b> Stainless steel armored capillary with PVC protection <sup>3)</sup>
		(SJ) SS316L PFA coated <sup>1)</sup>	(SJ) SS316L PFA coated <sup>1)</sup>	(04T) 1/2" NPT(F)					
		(SG) SS316L Gold Plated	(SG) SS316L Gold Plated						
		(H) Hastelloy C 276	(H) Hastelloy C 276						
		(P) Monel 400	(M) Monel 400						
<b>DIN Flanged</b> (DN50) (DN80) (DN100) (DN125)					<b>DIN</b> (NA) Not applicable (PN10) (PN16) (PN25) (PN40) (PN64) (PN100)				<b>Options</b> <b>(NH)</b> SS wired tag <b>(OF)</b> Oil free (only filled with halocarbon)
				others on request	others on request				<b>Certificate</b> <b>(CD3)</b> 3.1 Material Certi.

1) Restricted to temperature 200 °C 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 Size	Type	Diaphragm	Bottom housing material	Instrument connection	Backup flange rating	Flange facing	Backup flange material	Filling fluid	Length of Capillary	Options	Certificate
30	DF52	S	S	14T	300	RF	CS	CK	CA1.0	NH	CD3

## Precision Mass Products Pvt. Ltd.

Plot No.: 2306, G.I.D.C. Chhatral, Ta: Kalol, Dist.: Gandhinagar, Chhatral -382729, Gujarat, India.

Telephone: +91-2764 233681/82/83

Email: sales@precisionmass.com

Fax: +91-2764-233440

www.precisionmass.com

- North Zone : sales.delhi@precisionmass.com
- East zone : sales.kolkata@precisionmass.com
- West zone : sales.mumbai@precisionmass.com
- South zone : sales.chennai@precisionmass.com