Diaphragm seals pancake type
Model DF52

Pancake type to ANSI/ASME or DIN/EN

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

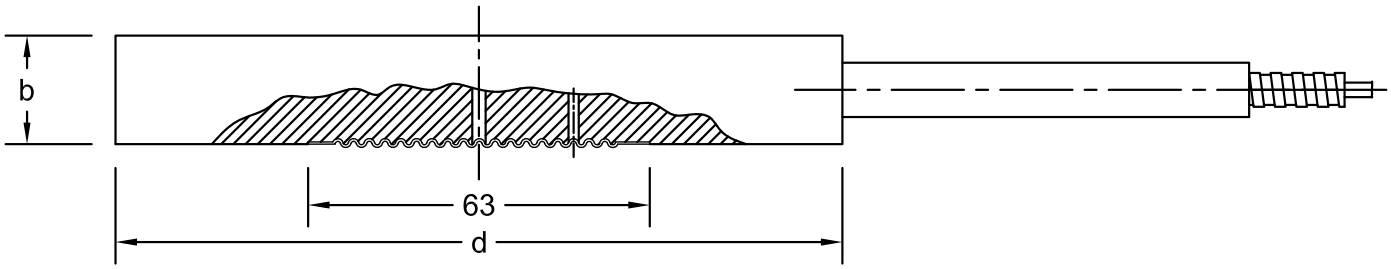
Applications

Chemical and petrochemical industry
Offshore installations
Pulp and paper industry

Technical specification		DF52			
Process connection size, flanged	ANSI DIN	2", 3", 4”, 5” DN50, DN80, DN100, DN125			
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 Fill port Flushing connection Flushing connection size		Flush welded diaphragm At the top with stainless steel ball and set screw Flushing through spacer ring 1/4” or 1/2” NPT female			
Measuring principle		Metallic diaphragm			
Instrument connections [female]		3/8” BSP(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), 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			

All specifications are subject to change without notice.

General dimensions in mm



DIN FLANGE

DN [mm]	PN [bar]	Dimensions [mm]	
		d	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]	
		d	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	Wetted Parts	Instrument connection	Backup Flange Rating	Backup Flange Material	Filling fluid	Options
ANSI Flanged **(20)** 2” **(30)** 3” **(40)** 4” **(50)** 5”	**DF52**	**(S)** 316 **(L)** 316L **(SJ)** 316 with teflon coating[1)] **(SG)** 316 with GOLD coating **(H)** Hastelloy - C276 **(M)** Monel	**(14T)** 3/8” BSP(F)	**ANSI** **(NA)** No backup flange **(150)** 150 lbs **(300)** 300 lbs **(600)** 600 lbs **(900)** 900 lbs **(1500)** 1500 lbs	**(NA)** No backup flange **(C)** SS 304 **(S)** SS 316 **(CS)** Carbon steel	**(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)	**(NH)** Tagging wired **(OF)** Oil free (only filled with halocarbon) **(SR4)** Spacer ring with 1/2” NPT flushing[3)] **(SR2)** Spacer ring with 1/4” NPT flushing[3)] **(CA)** Stainless steel armored capillary [2)] **(CP)** Stainless steel armored capillary with PVC sleeving [2)]
DIN Flanged **(DN50)** **(DN80)** **(DN100)** **(DN125)**				**DIN** **(NA)** No backup flange **(PN10)** **(PN16)** **(PN25)** **(PN40)** **(PN64)** **(PN100)**			
			others on request	others on request		others on request	2) Max length 30m, specify length in mm EG. CP1000 = CP with 1m

1) Restricted to temperature 200 °C 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	CA1000

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