

Flush type flanged diaphragm seal **Model DF50**

ASME B40.100

Features

- Welded diaphragm seal
- · Variety of wetted parts material
- Filling port in the upper housing
- Suitable for pressure gauges, switches and transmitters

1 1/2", 2" & 3" ASME/ANSI DN40, DN50 & DN80

Pressure Rating

From 150 lbs up to 2500 lbs From PN10 up to PN160

Applications

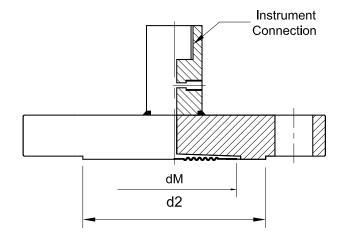
Chemical and petrochemical industry Machine and apparatus construction Offshore installations Pulp and paper industry



Technical specification		DF50			
Process connection size, flanged	ASME				
B16.5	ANSI	1 ½", 2", 3"			
EN 1092-1	DIN	DN40, DN50, DN80			
Rating	ANSI	150 lbs, 300 lbs, 600 lbs, 900 lbs, 1500 lbs, 2500 lbs			
	DIN	PN10, PN16, PN25, PN40, PN64, PN100, PN160 others on request			
Construction		Machined flange with welded flush diaphragm			
Fill port		In upper housing side with stainless steel ball and set screw			
Maximum pressure		According to flange ratting			
Measuring principle		Diaphragm welded to flange			
Instrument connections [female]		3/8" BSP(F), Others on request			
Sealing surfaces					
ANŠI/ASME		B16.5 RF, optional RTJ			
EN		EN 1092-1 Form B1			
Material (wetted parts)					
Diaphragm & contact surface		Stainless steel 316L, Optoinal 316L with PTFE protection, Hasteloy-C276			
Material (non wetted parts)					
Instrument connection		Stainless steel 304			
Capillary and armor		Stainless steel 316 and stainless steel 304			
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.			
Accuracy		Additional 0.5% to the specified tolerance of the mounted instrument			
Mounting		Direct or with capillary			
Weight dry in kg		Depending on flange size			
Accessories, options		NACE, pressure gauges, pressure switches, transducers, capillaries			



General dimensions in mm



SIZE	RATING	d2	dM	Min.Range Direct mounting (kg/cm²)	Min.Range with Capillary (kg/cm²)
1 1/2"	150 ~ 2500#	73	40	4	10
2"	150 ~ 2500#	92	63	1	1
3"	150 ~ 2500#	127	63	1	1
DN 40	PN 10 ~ 160	88	40	4	10
DN 50	PN 10 ~ 160	102	63	1	1
DN 80	PN 10 ~ 160	138	63	1	1

Order information

Process Size	Туре	Diaphragm	Flange material	Instrument connection	Flange Rating	Flange Facing	Filling fluid	Options
ANSI	DF50	(S) 316L	(S) 316	(14T) 3/8	ANSI	(RF) Raised	(CG) Glycerin	(NH) Tagging wired
Flanged		(SJ) 316L with	(L) 316L	BSP(F)	(150) 150 lbs	face ²⁾	(direct mounted, -18/204 °C)	(OF) Oil free (only filled with
(15) 1½"		Teflon			(300) 300 lbs	(RTJ) Ring	(CK) Silicone	halocarbon)
(20) 2"		Coating ¹⁾	(SJ) 316 with PTFE		(600) 600 lbs	joint type ²⁾	(direct mounted or with capillary,	(CA) Stainless steel
(30) 3"		(H) Hastelloy C	coating1)		(000) 000 103	type	-40/315 °C)	armored capillary 3)
(00)0		,			(900) 900 lbs		(2-)	(CP) Stainless steel
			(H) Hastelloy C		(1500) 1500 lbs		(CF) Halocarbon (direct mounted or with capillary, -56/149 °C)	armored capillary with PVC sleeving
					(2500) 2500 lbs		(HA) Syltherm 800 (direct mounted or	
DIN					DIN		with capillary, -40/400 °C)	
Flanged					(PN10)		(GZ) Vegetable oil	
(DN40) (DN50)					(PN16)		(direct mounted or with capillary,	
(DN30)					(PN25)		0/120 °C)	
(DN80)					(PN40)		(CZ) Food grade silicone	
					(PN64)		(direct mounted or with capillary,	
					(PN100)		-25/200 °C)	
				others on request	(PN160)		others on request	 Max length 30m, specify length in meter EG. CP1.0= CP with 1m

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

How to order

Process	Type	Wetted	Flange	Instrument	Flange	Flange	Filling fluid	Options	
Size		Parts	material	connection	rating	facing			
20	DF50	S	S	14T	150	RF	CK	CA1.0	