

chemical seal BRF-LGP flush diaphragm, flanged, low gauge pressure

typical "BRF-LGP" seal applications

- to combine with industrial process transmitters.
- to very low, highly accurate pressure measurement from 0-10 mbar
- temperature compensated

technical specification model BRF-LGP



Flanged connection	1"	1 1/2" / 2"	2"	3"	4"
ASME	DN32	DN40 / 50	DN50	DN80	DN100
DIN					
Diaphragm size in mm				72	72
Max. capillary length in meter				15	15
Min. pressure range for PI in bar				n.a.	n.a.
Min. span for GP in mbar				10	10
Min. span for DP in mbar				n.a.	n.a.

Process connection	Standard	Options
ASME B 16.5	3" / 4"	Other sizes acc ASME
	150 / 300#	
	RF	Other facing
	Factory standard face finish	
DIN 2501 (EN 1092-1)	DN80 / 100	Other sizes acc DIN
	PN10 / 25 / 40	
	Factory standard face finish	
		On request
JIS		

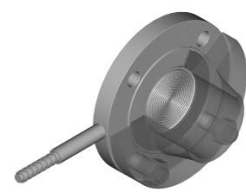
Wetted parts	Standard	Options
Flange	AISI316 (L)	Exotic materials
Diaphragm (fully covered raised face)	Hastelloy B2, Monel, Hastelloy C278	Tantalum, Silver, AISI316L Inconel 600, Inconel 686

Instrument connection	Standard	Options
Capillary	Side entry	

Features	Standard	Options
Capillary tubing	AISI316	Side entry
Armoring	AISI304	PVC sleeve black Polyolefin sleeve black Polyolefin sleeve white
Filling fluid	BSO22 (FDA app.)	Others see page 171
Diaphragm	AISI316L	On request
Full welded construction		All instruments
Flushing rings		For all DIN, ANSI flanges
Temperature compensated	Standard	
Support pipe	Heavy duty type	
Calibration on process conditions		All instruments
Hydrogen applications	Gold coating	All AISI316 diaphragms
Special coatings		PTFE, FEP, ECTFE, PFA

minimum ranges for gauges and transmitters per diaphragm

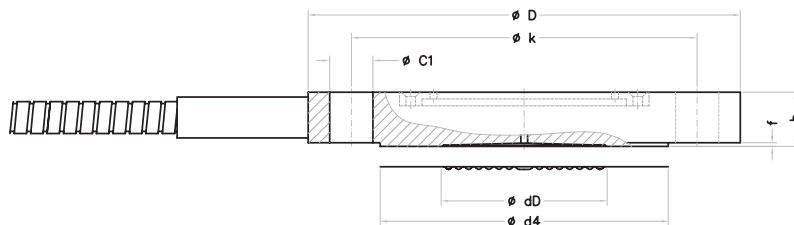
Diaphragm diameters dD For process connections			Min. span in mbar For transmitters	Min. range in bar For pressure gauges PI		
Diaphragm	flange	flange		Ø 63	Ø 100	Ø 160
72 mm	DN80	3"	10 mbar	n.a.	n.a.	n.a.
72 mm	DN100	4"	10 mbar	n.a.	n.a.	n.a.



temperature effect on transmitter, capillary and seal

Diaphragm diameters dD For process connections			Temp. effect in mbar For DP transmitters			Temp. effect in mbar For GP measurement		
Diaphragm	Flange	Flange	DP	Seal	Cap / mtr	Transmitter	Seal	Cap / mtr
72 mm	DN80	3"	n.a.	n.a.	n.a.	0.02	0.09	0.03
72 mm	DN100	4"	n.a.	n.a.	n.a.	0.02	0.09	0.03

Temperature effect is per +10 °C and measured from 20 °C.



Temperature compensated system for transmitter.