

Extended Flange Connections

Specification Type LE

Application

Flange type diaphragm seals are commonly used in applications which involve processing of Chemical, Petroleum, Slurry and Pulp and Paper products etc. This seal is used when an extended diaphragm seal is required to reach into the process.

Configuration

Differential or Gauge pressure. In all cases a Low Volume cover flange must be fitted to all DP type transmitter configurations to reduce fill liquid quantities and therefore reduce errors induced by ambient temperature change. Gauge pressure transmitters require a G1/2" process connection.

Process Connection

ASME RF, FF, RTJ, Large Tongue, Large Groove. DIN, Table & JIS

Process Connection Size

DN50 (2"), DN80 (3") & DN100 (4")

Seal Construction

Flange machined from Forged Billet or Plate. Welded or Bonded Diaphragm.

Packing Surface Finish

To connection standard.

Wetted Materials

316/316L Dual Certified Stainless Steel (standard) Other materials available upon request.

Backing Flange Materials

316/316L Dual Certified Stainless Steel (standard) Other materials available upon request.

Capillary

Available in 1 to 10 metre lengths. Capillaries must be of matching lengths for differential systems.

Capillary Armour

PVC coated 304 Stainless Steel (standard)
For processes with temperatures over 100°C or sanitary applications spiral wound 304 Stainless Steel.

Zero Stability

Stability will be affected by the instrument configuration, ambient temperature, process temperature, connection size (diaphragm size) and the measuring range.

Please contact to discuss temperature effects and instrument accuracy.

Dimensional Drawings & System Configuration Refer to Dimensional Drawings.







General Specifications

	Extended Flange Connections – Type LE	Suffix Code
Process Connection	Large Flange Extended	LE
Connection Type	ASME B16.5 Raised Face	AR
Connection Type	ASME B16.5 Flat Face	AF
	ASME B16.5 Ring Type Joint (RTJ)	RT DN
	DIN (EN1092-1) ASME B16.5 Large Tongue	AT
	ASME B16.5 Large Groove	AM
	JIS B 2220 Table AS2129	JI TB
	Special	XX
Connection Size	DN50 (2") (For ASME 900lb use Code 5 in "Connection Rating")	16
	DN80 (3")	24
	DN100 (4") Special	32 XX
Connection Rating	ASME 150lb, Table E ASME 300lb, DIN PN10-16, JIS 10K, Table F	1 2
	ASME 600lb, DIN PN25-40, JIS 16K, Table H	3
	ASME 900lb, DIN PN64, JIS20K Table J (ASME 900lb for DN80 (3") & above) ASME 1500lb, DIN PN100, JIS 30K, Table K	<u>4</u> 5
	ASME 2500lb, DIN PN160	6
Diaphragm Material	316/316L Stainless Steel	S
Diaphragin Material	Hastelloy C-276 (MUST have the same Wetted parts)	H
	Monel 400 (MUST have the same Wetted parts)	M
	Titanium Grade 2 (MUST have the same Wetted parts) PFA (316/316L Stainless Steel coated) (MUST have the same Wetted parts)	F
	Gold Plated 316/316L Stainless Steel	G
	Duplex 2205 Special	U X
Wetted Parts	316/316L Stainless Steel 304/304L Stainless Steel	S A
	Hastelloy C-276 (MUST have the same Diaphragm material)	Н
	Monel 400 (MUST have the same Diaphragm material) Titanium Grade 2 (MUST have the same Diaphragm material)	M I
	PFA (316/316L Stainless Steel coated) (MUST have the same Diaphragm material)	F
	Duplex 2205 Special	U X
	Зреча:	^
Backing Flange Material	316/316L Stainless Steel	S A
	304/304L Stainless Steel Hastelloy C-276	H
	Titanium Grade 2	1
	Carbon Steel Duplex 2205	C U
	Special	Х
System Configuration	Gauge Pressure System with G-1/2" Connection Direct Mounted TX	G
,	Gauge Pressure System with G-1/2" Connection Capillary mounted TX	S
	Gauge Pressure System with DP Type TX Direct Mounted Gauge pressure System with DP Type TX Capillary Mounted	M P
	Differential Pressure System with Capillary	D
Capillary / Standoff	Standoff (System Configuration "M") / Heat Neck (System Configuration "G")	AA
	None Note: Only available with System Configuration "G"	00
	1 Metre 2 Metres	01 02
	3 Metres	03
	4 Metres 5 Metres	04 05
	6 Metres	06
	7 Metres 8 Metres	07 08
	9 Metres	09
	10 Metres	10
Fill Liquid	KN32 704 Silicon Oil 30cs (-10°C to +300°C)	A
	KN22 Silicon Oil 100cs (-40°C to +290°C)	В
	KN33 705 Silicon Oil 320cs (-10°C to +400°C) KN21 Fluorolube 7cs (-20°C to +120°C)	C D
	KN55 Ethylene Glycol (-13°C to +196°C)	E
	KN17 Silicon Oil 2cs (-90°C to +80°C for less than 1Bar90°C to +180°C for greater than 1Bar) Special	L X
		•
Extension Length	50mm 100mm	1 2
	150mm	3
	200mm	4 5
	250mm Special	X
Options		
aper on Extension Length	No Taper 1mm Taper	0
	2mm Taper	2
	3mm Taper 4mm Taper	3 4
	5mm Taper	5
Jacking Bolts	2 x 1/2" UNF Grade 5	J
Caoning Dolla		















