

Wafer Flange Connections

Specification Type CW

Application

Wafer type diaphragm seals are commonly used in applications which involve processing of Chemical, Petroleum, Slurry, Pulp and Paper, Food, Beverage and Pharmaceutical Products. These seals have the capillary coming out at right angles to the seal face. This lets the capillary run along the tank wall or pipe.

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

	Wafer Flange Connections – Type CW	Suffix Code
Process Connection	Large Flange	CW
Connection Type	ASME B16.5 Raised Face	AR
,,,	ASME B16.5 Flat Face	AF
	ASME B16.5 Ring Type Joint (RTJ)	RT
	DIN (EN1092-1)	DN
	ASME B16.5 Large Tongue	AT
	ASME B16.5 Large Groove	AM
	JIS B 2220	JI To
	Table AS2129 Special	TB XX
	Special	^^
Connection Size	DN50 (2") (For ASME 900lb use Code 5 in "Connection Rating")	16
	DN80 (3")	24
	DN100 (4")	32
	Special	XX
Connection Boting	ACME 150lb Toble E	
Connection Rating	ASME 150lb, Table E ASME 300lb, DIN PN10-16, JIS 10K, Table F	1 2
	ASME 300lb, DIN PN25-40, JIS 16K, Table P	3
	ASME 900lb, DIN PN64, JIS20K Table J (ASME 900lb for DN80 (3") & above)	4
	ASME 1500lb, DIN PN100, JIS 30K, Table K	5
	ASME 2500lb, DIN PN160	6
Diaphragm Material	316/316L Stainless Steel	S
	304/304L Stainless Steel	A
	Hastelloy C-276 (MUST have the same Wetted parts)	<u>H</u>
	Monel 400 (MUST have the same Wetted parts – Bonded Diaphragm, Max. Process Temp.150°)	M
	Titanium Grade 2 (MUST have the same Wetted parts)	<u> Т</u>
	Tantalum (MUST have the same Wetted parts) PFA (316/316L Stainless Steel coated) (MUST have the same Wetted parts)	<u> </u> F
	Gold Plated 316/316L Stainless Steel	G
	Duplex 2205	Ü
	Special	X
	41	
Wetted Parts	316/316L Stainless Steel	S
	304/304L Stainless Steel	Α
	Hastelloy C-276 (MUST have the same Diaphragm Material)	H
	Monel 400 (MUST have the same Diaphragm Material – Bonded Diaphragm, Max. Process Temp.150°)	M
	Titanium Grade 2 (MUST have the same Diaphragm Material)	<u> </u>
	Tantalum (MUST have the same Diaphragm Material)	T U
	Duplex 2205 PFA (316/316L Stainless Steel coated) (MUST have the same Diaphragm Material)	F
	Special	X
	Орсски	Λ
Backing Flange Material	316/316L Stainless Steel	S
	304/304L Stainless Steel	Α
	Hastelloy C-276	Н
	Titanium Grade 2	
	Carbon Steel	С
	Duplex 2205	U
	Special	X
System Configuration	Course Peaceure System with C 4/2" Connection Direct Mounted TV	
System Configuration	Gauge Pressure System with G-1/2" Connection Direct Mounted TX Gauge Pressure System with G-1/2" Connection Capillary mounted TX	G S
	Gauge Pressure System with DP Type TX Direct Mounted	<u>3</u>
	Gauge Pressure System with DP Type TX Direct Mounted Gauge pressure System with DP Type TX Capillary Mounted	P
	Differential Pressure System with Capillary	D
Capillary	1 Metre	01
	2 Metres	02
	3 Metres	03
	4 Metres	04
	5 Metres	05
	6 Metres	06
	7 Metres	07 08
	8 Metres 9 Metres	09
	10 Metres	10
Fill Liquid	KN32 704 Silicon Oil 30cs (-10°C to +300°C)	Α
	KN22 Silicon Oil 100cs (-40°C to +290°C)	В
	KN33 705 Silicon Oil 320cs (-10°C to +400°C)	C
	KN21 Fluorolube 7cs (-20°C to +120°C)	D
	KN55 Ethylene Glycol (-13°C to +196°C)	E
	KN59 Neobee 10.1cs (FDA app) (-20°C to +160°C for less than 0Bar20°C to +204°C for greater than	
	OBar)	F
	Vegetable Oil (Food Grade) (10°C to +100°C)	V
	10gotable 611 (1 coa Grade) (10 G to 1	
	KN17 Silicon Oil 2cs (-90°C to +80°C for less than 1Bar90°C to +180°C for greater than 1Bar)	L













