

# **Small Flange Connection (8Bolt Seals)**

Specification Type SF

### **Application**

Primarily used in Petroleum-Chemical processes, and particularly useful when small connection sizes are required for measuring pressure, level and flow.

### 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**

DN15 (1/2"), DN20 (3/4"), DN25 (1") & DN40 (1-1/2") For Larger sizes refer to **GS LF** 

### **Seal Construction**

Machined from bar stock.
Diaphragm in Upper housing.
The Upper and Lower chamber are bolted together with 8, 304 Stainless Steel bolts and sealed with a Viton O-ring.

### Packing surface finish:

To connection standard.

#### **Wetted 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**

	Small Flange Connection (8 Bolt) – Type SF	Suffix Code
Process Connection	Small Flange	CW
Connection Type	ASME B16.5 Raised Face	AR
Connection Type	ASME B16.5 Flat Face	AF
	ASME B16.5 Ring Type Joint (RTJ)	RT
	DIN (EN1092-1)	DN
	JIS B 2220	JI
	Table AS2129	TB
	Special	XX
Connection Size	DN15 (1/2")	04
	DN20 (3/4")	06
	DN25 (1")	08
	DN40 (1-1/2")  Special	12 XX
	- Openius	701
Connection Rating	ASME 150lb, Table E	1
	ASME 300lb, DIN PN10-16, JIS 10K, Table F	2
	ASME 600lb, DIN PN25-40, JIS 16K, Table H  ASME 900lb, DIN PN64, JIS20K Table J (ASME 900lb for DN80 (3") & above)	3 4
	ASME 1500lb, DIN PN100, JIS 30K, Table K	5
		_
Diaphragm Material	316/316L Stainless Steel 304/304L Stainless Steel	S A
	Hastelloy C-276 (MUST have the same Wetted parts)	H
	Monel 400 (MUST have the same Top & Wetted parts)	M
	Titanium Grade 2 (MUST have the same Top & Wetted parts)	Ī
	Tantalum	Т
	PFA (316/316L Stainless Steel coated)	F
	Gold Plated 316/316L Stainless Steel	G
	Duplex 2205	U X
	Special	
Wetted Parts	316/316L Stainless Steel	S
	304/304L Stainless Steel	Α
	Hastelloy C-276 (MUST have the same Diaphragm Material)	Н
	Monel 400 (MUST have the same Top & Diaphragm Material)	M
	Titanium Grade 2 (MUST have the same Top & Diaphragm Material)  Duplex 2205	Ü
	PFA (316/316L Stainless Steel coated)	F
	Special	Х
Eluching Borto	None	0
Flushing Ports	1 x 1/4" NPT= 2 Ports supplied with 1 Plug	1
	2 x 1/4" NPT Ports	2
	1 x 1/2" NPT = 2 Ports supplied with 1 Plug	3
	2 x 1/2" NPT Ports	4
System Configuration	Course Drawn Contact with C 4 /0" Consection Direct Manufact TV	0
	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	M
	Gauge pressure System with DP Type TX Capillary Mounted	P
	Differential Pressure System with Capillary	D
Canillary / Standary	Chandelf (Contage Configuration (MEN) / Hard Need (October Configuration (MEN) / Hard Need (MEN) / Hard	A A
Capillary / Standoff	Standoff (System Configuration "M") / Heat Neck (System Configuration "G")  None Note: Only available with System Configuration "G"	AA 00
	1 Metre	01
	2 Metres	02
	3 Metres	03
	4 Metres	04
	5 Metres	05
	6 Metres	06
	7 Metres 8 Metres	07 08
	9 Metres	08
	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)	С
	KN21 Fluorolube 7cs (-20°C to +120°C)	D E
	KN55 Ethylene Glycol (-13°C to +196°C) 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
	KN17 Silicon Oil 2cs (-90°C to +80°C for less than 1Bar90°C to +180°C for greater than 1Bar)	L
	Special	X











