

# **Combination Small Connections**

Direct Mount H.P side / Capillary Mount L.H side
Specification
Type CS

### **Application**

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

# Configuration

Differential pressure only. The high pressure side has the Diaphragm Seal direct mounted to the transmitter and a compensation capillary is added for zero stability. The low pressure side has the Diaphragm Seal connected to the transmitter via capillary. A Low Volume cover flange must be fitted to all DP transmitters to reduce fill quantities and therefore reduce errors induced by ambient temperature change.

# **Process Connection**

ANSI, ANSI RTJ, Din, ANSI Large Tongue, ANSI Large Groove, Table & JIS

#### **Process Connection Size**

DN15 (1/2") 8 Bolt Seal, DN20 (3/4") 8 Bolt Seal, DN25 (1") 8 Bolt Seal, DN40 (1-1/2") 8 Bolt Seal, For Larger sizes refer to **GS CL** 

#### **Seal Construction**

Machined from Forged Bar.
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.

### **Capillary Armour**

PVC coated 304 Stainless Steel (standard)
For processes with temperatures over 100°C or sanitary specification systems 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**

	Combination Small Flange Connection (8 Bolt) – Type CS	Suffix Code
Process Connection	Combination Small Flange	CS
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
	JIS B 2220	JI
	Table AS2129  NPT Female	TB NF
	BSPT Female	TF
	Special	XX
Connection Size	DN15 (1/2")	04
Commedian Cize	DN20 (3/4")	06
	DN25 (1")	08
	DN40 (1-1/2")	12
	Special	XX
Connection Rating	Threaded Connection	0
g	ASME 150lb, Table E	1
	ASME 300lb, DIN PN10-16, JIS 10K, Table F	2
	ASME 600lb, DIN PN25-40, JIS 16K, Table H	3
	ASME 900lb, DIN PN64, JIS20K Table J (ASME 900lb for DN80 (3") & above)	4
	ASME 1500lb, DIN PN100, JIS 30K, Table K	5
Diaphragm Material	316/316L Stainless Steel	S
	304/304L Stainless Steel	A
	Hastelloy C-276 (MUST have the same Wetted parts)	H
	Monel 400 (MUST have the same Top & Wetted parts)  Titanium Grade 2 (MUST have the same Top & Wetted parts)	M
	Tantalum	Ť
	PFA (316/316L Stainless Steel coated)	F
	Gold Plated 316/316L Stainless Steel	G
	Duplex 2205	U
	Special	Х
Wetted Parts	316/316L Stainless Steel	S
	304/304L Stainless Steel	A
	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)	1
	Duplex 2205	U
	PFA (316/316L Stainless Steel coated) Special	F X
	Ореска	X
Flushing Ports LP & HP sides	None	0
	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 2 x 1/2" NPT Ports	3 4
	2 x 1/2 141 1 1 0115	+
System Configuration High Side	Direct Mount Standoff with Compensation Capillary	A
	Special	X
System Configuration /Low side	1 Metre	01
Cystem Comiguration/Low side	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)	B C
	KN33 705 Silicon Oil 320cs (-10°C to +400°C)  KN21 Fluorolube 7cs (-20°C to +120°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)	L
	Special	X
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