

SANITARY PRESSURE GAUGES

REOTEMP sanitary gauges are specially designed to meet the demanding sanitary requirements of food, dairy, beverage, pharmaceutical, and biotech applications.

- Quick connecting Tri-clamp design
- Fast removal and installation of instruments, to allow flushing or changing the process media
- Ideal for clean-in-place, or equipment washdown
- Designed to meet 3-A sanitary standards
- Comes with 3-A certification
- All welded 316 SS Tube, Socket, Seal, and Diaphragm

Specifications:

- Dial sizes:** 2", 2.5", 3.5", 4"
Wetted Parts: 316L polished SS
Case & Ring: 300 series polished SS
Process Connection: Tri-clamp, lower or back
 Other connections optional
System Filling: USP Glycerin (standard), Silicone, Neobee (optional)
Windows: Polycarbonate (2.5" & 3.5")
 Laminated Safety Glass (4"), Glass (2")
Accuracy: **Standard Seal:** 1.5% for ranges 100 psi and above. 2% for compound and below 100 psi ranges.
Fractional Seal: Ranges 60 psi & above - 2.5% up scale†, up to 4% downscale.

3/4" Triclamp (Fractional) seal Limitations: Due to the compact nature of the 3/4" triclamp fractional seal, several factors can affect accuracy. Use of the fractional seal generally involves a compromise in performance for the convenience of the small size. The fractional sanitary gauge provides repeatable pressure reference in a stable temperature environment, but the larger 1 1/2" or 2" triclamp seals are recommended for greater accuracy whenever possible.

Gasket: The REOTEMP fractional gauge is calibrated using a standard 3/4" Buna gasket. When choosing a gasket for installation, care should be taken so the gasket does not push on the diaphragm.

Temperature: The fractional seal's temperature effect varies with the range selected, but is generally greater than +/- 0.5% per 10 °F change in process temperature. The fractional seal is recommended for stable process temperatures from 40°F to 120°F.

Pressure Range: The fractional seal is most accurate in ranges over 160 psi.

Options:

- Liquid Filled Case** - Glycerin - USP Food Grade,
 Other fills requested
Alternate Process Connections - Cherry-Burrell "I" line or
 Bevel seat type
Alternate Seal fill fluids - Neobee M-20, Silicone 200,
 Vegetable Oil
Calibration - Traceability certs, with or without logged points



To Order: Specify Part Number + Range Code

Standard Seal Sizes (1.5", 2" Tri-clamp)				
Part Number	Gauge Size	Connection Location	Tri-clamp Size	Available Ranges (psi)*
SG20 A TC 15 SG20 C TC 15	2"	Bottom	1.5"	All
		Back	1.5"	
SG20 A TC 20 SG20 C TC 20	2"	Bottom	2"	
		Back	2"	
SG25 A TC 15 SG25 C TC 15	2.5"	Bottom	1.5"	All
		Back	1.5"	
SG25 A TC 20 SG25 C TC 20	2.5"	Bottom	2"	
		Back	2"	
SG35 A TC 15 SG35 C TC 15	3.5"	Bottom	1.5"	All
		Back	1.5"	
SG35 A TC 20 SG35 C TC 20	3.5"	Bottom	2"	
		Back	2"	
SG40 A TC 15 SG40 C TC 15	4"	Bottom	1.5"	0/60 to 0/1000
		Back	1.5"	
SG40 A TC 20 SG40 C TC 20	4"	Bottom	2"	
		Back	2"	
SG60 A TC 15	6"	Bottom	1.5"	0/160 to 0/1000
SG60 A TC 20		Bottom	2"	

*Pressures over 600 psi may require special clamps

Fractional Seals (3/4" Tri-clamp)

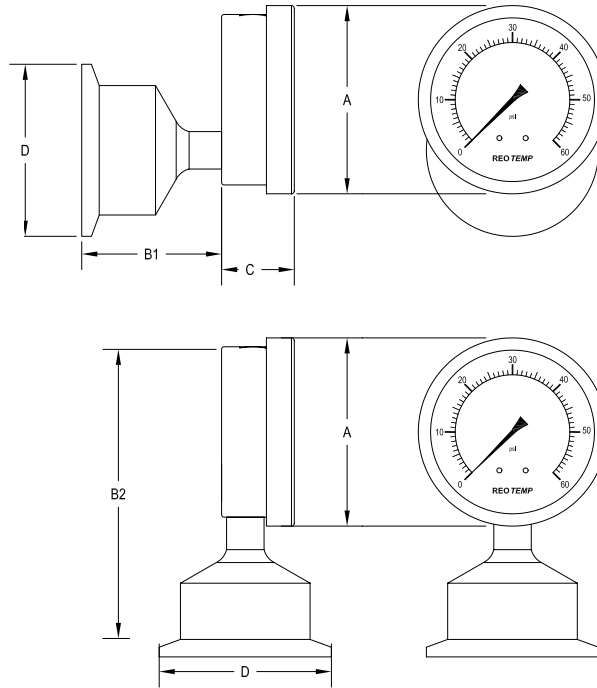
SG20 A TC 75 SG20 C TC 75	2"	Bottom	3/4"	30"Hg/0/30psi to 0/1000
		Back		
SG25 A TC 75 SG25 C TC 75	2.5"	Bottom	3/4"	0/160 to 0/1000
		Back		

Fractional Seals come with 3/4" triclamp and buna gasket.

To Order: Specify part number and range code (see "How to Order")

Triclamp Size	"D" Diameter
3/4"	0.98 (24.8)
1.5"*	1.98 (50.3)
2"	2.58 (65.5)
2.5"	3.05 (77.5)
3"	3.57 (90.7)
4"	4.68 (119)

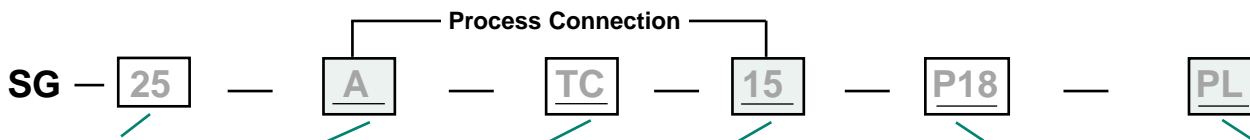
*1.5" triclamp seal fits 1.5" and 1" triclamp fittings.



Dial Size	A	B 1*	C
2"	2.05 (52)	1.6 (41)	1.11 (28.2)
2.5"	2.69 (68.4)	2.5 (64)	1.19 (30.2)
3.5"	3.5 (89)	2.4 (61)	1.25 (31.7)
4"	4.4 (112)	5.1 (130)	1.95 (49.5)

Dial Size	A	B 2*	C
2"	2.05 (52)	3.6 (91.4)	1.11 (28.2)
2.5"	2.69 (68.4)	4.8 (122)	1.19 (30.2)
3.5"	3.5 (89)	5.7 (145)	1.25 (31.7)
4"	4.4 (112)	7.0 (178)	1.95 (49.5)
6"	6.2 (157.5)	9 (228.6)	2 (50.8)

Dimensions are in inches (mm).
* "B" dimensions are for 1.5" and 2" triclamps.



Gauge Size:	Location:	Clamp Type:	Clamp Size:	PRESSURE (PSI)	Options:
20 = 2"	A = Bottom	TC = Tri-Clamp	15 = 1.5"	P15 0/15	PL = Polysulfone lens (for autoclaving)
25 = 2.5"	C = Lower Back	CI = "I" Line	20 = 2"	P16 0/30	MP = Max pointer (2 1/2", 4" only)
35 = 3.5"	R = Right Side	(Other connections on application)	25 = 2.5"	P17 0/60	EP = Electropolished wetted parts
40 = 4"	L = Left Side	CP = CPM type	30 = 3"	P18 0/100	CC3 = Cert. Of calibration (3 pt.)
60 = 6"*	T = Top	TH = Tuchenhagen	40 = 4"	P19 0/160	CC5 = Cert. Of calibration (5 pt.)
*Available in bottom conn. only.			75 = 3/4"	P20 0/200	Case Fills (for vibration)
				P21 0/300	CFG = Glycerin
				P22 0/400	CFN = Neobee
				P23 0/600	CFS = Silicone
				P24 0/800	Alternate Seal Fill Fluids (std. is glycerin)
				P25 0/1000	SFN = Neobee
				VACUUM	SFS = Silicone
				P01 -30"Hg/0	SFV = Vegetable oil
				COMPOUND	Alternate Wetted Materials
				P02 30"Hg/0/15psi	H = Hast. C
				P03 30"Hg/0/30psi	T = Teflon coated 316SS
				P04 30"Hg/0/60psi	
				P05 30"Hg/0/100psi	
				P06 30"Hg/0/160psi	
				P07 30"Hg/0/200psi	
				P08 30"Hg/0/300psi	

(Other ranges available on application)

SERIES THS

3A SANITARY TRANSMITTERS



- 3A, Tri-clamp Sanitary Connection
- 316 Stainless Wetted Parts
- Designed for “Clean-in-place” and “Sterilize-in-place” procedures
- Media temperatures to 250F (121C)
- Internal zero & span adjustments

Applications:

Food, dairy, pharmaceutical, beverage, biotech.

THS series transmitters are compatible with Reotemp DM series digital indicators (p.37). Each Reotemp transmitter is inspected and calibrated prior to shipment, to ensure it is 100% “Ready-to-Go” right out of the box!

Specifications: (Also see General specs, page 39)

Output Signal: 4-20 mA, 2 wire (std)
1-5 VDC, 1-6 VDC, or 1-11 VDC (3 wire)

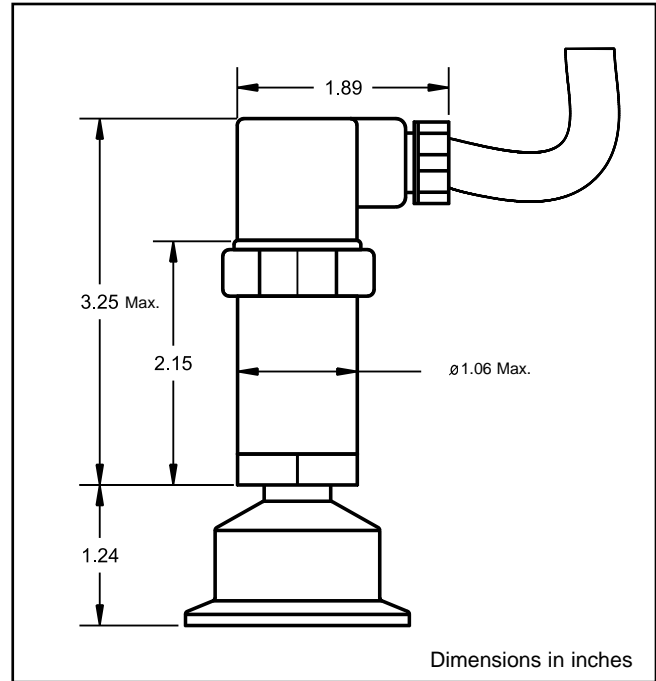
Pressure Ranges: Vacuum, compound, pressure 0/2 to 0/1000 PSI gauge and absolute. Ranges 60psi and below not recommended with 3/4” tri-clamp.

Proof & Burst Pressures	Proof pressure	Burst pressure
0/5 thru 0/200psi	3 x range	3.8 x range
0/300 thru 0/1,000psi	1.75 x range	4 x range

Accuracy (BFSL): +/- 0.5% of span (standard)
+/- 0.25% of span (optional)
+/- 5% full scale, zero & span

Adjustment: 10-30 VDC (for current output)
14-30 VDC (for voltage output)

Input: Temperature effect with 1.5” or 2” triclamp:
+/- 0.1% of span / 10°F (for zero & span)
or +/- 0.02psi/ 10°F (greater of)
Note: 3/4” Triclamp not recommended for temperature variations. Effect is <= +/- 0.9psi/ 10°F



Note: dimensions are nominal and may vary. Check with Reotemp sales if dimensions are critical.

HOW TO ORDER



THS =	Range:	Accuracy:	Output Signal:	Process Connection:	Electrical Connection:	Fill Fluid:
Sanitary Transmitter	SEE PAGE 39 FOR RANGE CODES Vacuum, Compound, Pressure RANGES: 0/5psi to 0/1,000psi	1 = +/-0.5% Full Scale 2 = +/-0.25% Full Scale	A = 4-20mA, (2 wire) (Std) C = 1-5 VDC, 3 wire D = 1-6 VDC, 3 wire F = 1-11 VDC, 3 wire	C = 1.5” Triclamp L = 2” Triclamp A = 2.5” Triclamp Cl = 2” Cherry-Burrell “I”-line M* = 3/4” Triclamp (other connections available)	A* = Mini Hirschmann (w/36” cable) B* = Mini Hirschmann (no cable) C** = Hirschmann (w/36” cable) D** = Hirschmann (no cable) F = 6 pin Bendix J = 1/2” NPT male conduit (w/36” cable) <small>* Used for all .5% acc. except <5 psi ** Used for all .25 acc. and all <5 psi</small>	G = Glycerin (std) S = Silicone N = Neobee M-20 H = Halogenated inert fluid V = Vegetable oil

*Note: REOTEMP recommends 1.5” or 2” triclamp for variable temperature service.