



Product Data

Diaphragm Seals

Type C Series Sanitary Diaphragm Seal and CSTG Sanitary Gauge/Seal Assembly



DESCRIPTION

Mansfield & Green C Series diaphragm seals or CSTG sanitary gauge/seals feature a simple, one-piece seal design with diaphragms fastened directly onto the instrument top housing. Type C seals are crafted of 316 stainless steel with quick-couples that meet 3A Standards per specification 37-01 for use in sanitary piping applications in the food, beverage, pharmaceutical, and other industries requiring extreme levels of purity.

Type C Series seal elements are designed to mount on tees or welding ferrules. Their design allows for fast, efficient removal and installation for flushing or changing process media, line cleanout, and equipment washdown situations.

Seal pressure and temperature specifications are determined by the sanitary piping system limitations.

The gauge is available in both 63mm or 100mm sizes, and has 316L SST internals and 304 SST case and bezel.



FEATURES

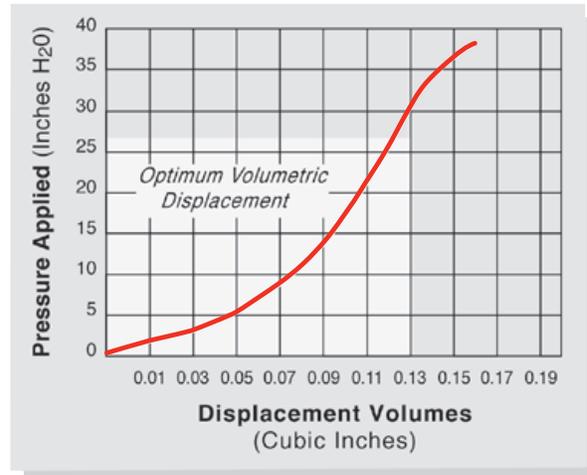
- All welded 316 SST construction meets 3A Standards
- Ideal for food, beverage, pharmaceuticals, or high purity applications
- Compatible with a variety of piping systems
 - Ladish Tri-Clover
 - Cherry-Burrell
- Quick connection and disconnection from process
 - Ideal for washdowns, line cleanout, flushing, or changes to process media

SPECIFICATIONS

BODY MATERIAL: 316 stainless steel

INSTRUMENT CONNECTION: 1/4 NPT or stem for tubing

DIAPHRAGM MATERIAL: 316 ELC stainless steel



Application Note

Seal element pressure and temperature limits are determined by the sanitary piping system's limits.

Pressure vs. Volumetric Displacement (CST Series)

Displacement curves are provided to assist in selecting a diaphragm seal with minimal full span displacement bias effects. This graph is for reference only and may not accurately represent the maximum displacement that may be used. Contact AMETEK for exact specifications.



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ALL ORDERS CAN BE SENT TO:

On-line fax: 215-323-9450 or e-mail to usg.sales@ametek.com

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900 Clymer Avenue
Sellersville, PA 18960 U.S.A.

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8600 Somerset Drive
Largo, FL 33773 U.S.A.



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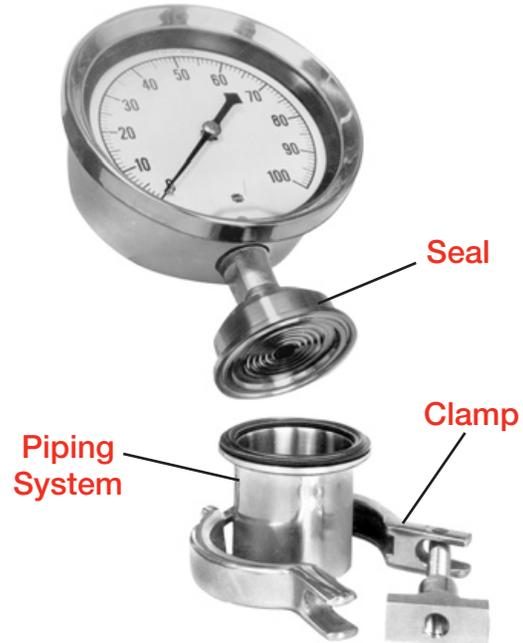
ACCESSORIES



No. 13 Clamp
Used with CSI, CST, and CSQ Seals



Seals are designed to meet 3A standard requirements and to replace cap in specified sanitary pipe systems. Pressure-temperature limitations of seal is determined by the appropriate sanitary piping system limits.



MODEL C SERIES SELECTION GUIDE

SEAL TYPE	PIPING SYSTEM	OPERATING PRESSURE	VOLUMETRIC DISPLACEMENT
CSI	Cherry-Burrell "I" Line CIP Seal Replaces 16 AL Cap	10 psig and up	.06 cubic inches
	Ladish Tri-Clamp	50 psig and up	.007 cubic inches
CST	GC "Fast Clamp"	10 psig and up	.06 cubic inches
	Cherry-Burrell "S" Clamp	10 psig and up	.13 cubic inches
	Seal Replaces 16 A Cap	10 psig and up	.13 cubic inches
CSQ	Cherry-Burrell "Q" Line Seal Replaces 16 AQ Solid Cap	10 psig and up	.06 cubic inches
	Ladish Tri-Clamp	50 psig and up	.007 cubic inches
CSTG - 656 Gauge Welded to CST Seal	GC "Fast Clamp"	10 psig and up	.06 cubic inches
	Cherry-Burrell "S" Clamp Seal	10 psig and up	.13 cubic inches
	Replaces 16 A Cap	10 psig and up	.13 cubic inches



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Diaphragm Seals Type CSTG Sanitary Gauge/Seal Assembly



ORDERING INFORMATION

BASE MODEL NUMBER _____ CSTG= CSTG 656 gauge welded to CST seal	CSTG
PROCESS CONNECTION SIZE _____ 15 = 1-1/2" Tri-Clamp 20 = 2" Tri-Clamp 30 = 3" Tri-Clamp	15
GAUGE CONNECTION TYPE _____ A = Lower back mount 100mm (4") B = Lower mount 100mm (4") C = Center back mount 63mm (2-1/2") L = Lower mount 63mm (2-1/2")	C
GAUGE PRESSURE RANGE _____ 015 = 0 to 15 psig 030 = 0 to 30 psig 060 = 0 to 60 psig 100 = 0 to 100 psig 160 = 0 to 160 psig 300 = 0 to 300 psig 600 = 0 to 600 psig	030
GAUGE CASE FILL _____ GL = Glycerin MI = Mineral oil -- = Not used	GL
SYSTEM FILL (GAUGE/SEAL FILL) _____ GL = Glycerin NE = Neobee M20 MI = Mineral oil	GL
CALIBRATION CERTIFICATION _____ /C = NIST traceable data - = Not used	/C

Sample Order Number:

CSTG 15 C 030 GL GL /C

CSTG 1-1/2" Tri-Clamp sanitary seal, center back mount 63mm gauge, 0 to 30 psig pressure range, gauge case filled with Glycerin, seal/gauge system filled with Glycerin, with NIST traceable data

NOTE: Other ranges and types available upon request - call factory for price and availability. Standard delivery is 5-7 days.



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