



Diaphragm Seals

Type C Series Diaphragm Seal Elements for Sanitary Applications

DESCRIPTION

Mansfield & Green C Series diaphragm seals feature a simple, one-piece 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.



FEATURES

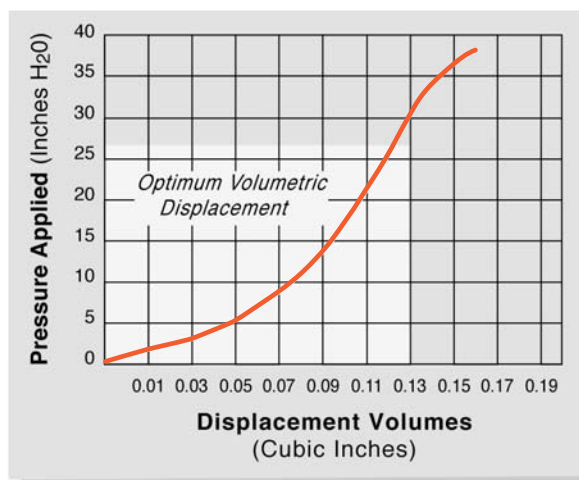
- All welded 316 SST construction meets 3A Standards
- Ideal for food, beverage, pharmaceuticals, or high purity applications
- Compatible with a variety of piping systems
 - Ladish Tri-Clover
 - Cherry-Burrell
- Quick connection and disconnection from process
 - Ideal for washdowns, line cleanout, flushing,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



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.

Application Note

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

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AMETEK[®]

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For Gauges/Thermometers:

U.S. GAUGE
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1802
www.ametekusg.com
Customer Service Tel: (863) 534-1504
Customer Service Fax: (863) 533-7465

For Electronic Products:

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Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1800
www.ametekusg.com

For Diaphragm Seals:

M&G PRODUCTS
8600 Somerset Drive
Largo, FL 33773 U.S.A.
Tel: (727) 536-7831
Fax: (727) 539-6882
www.ametek.com/tci

Diaphragm Seals

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ACCESSORIES

No. 13-H3" Union Nut, Hex
Used with CSA, CSB, and CSG Seals

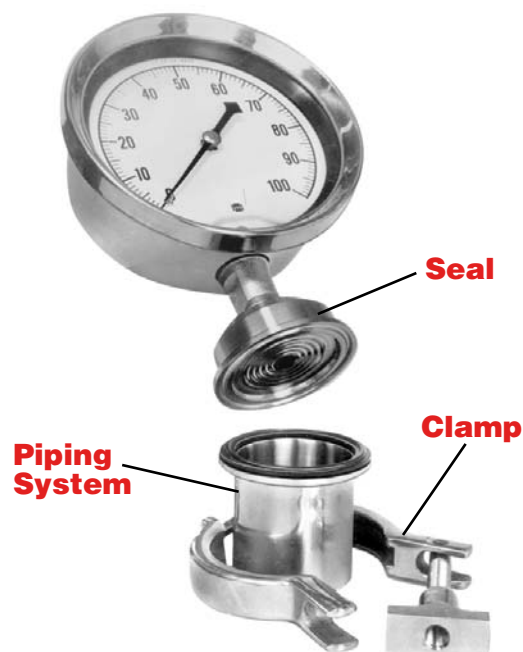


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37-01

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
CSA	Ladish Tri-Clover Bevel Seat Replaces 16 AT Hose Clamp	10 psig and up	.13 cubic inches
CSB	Ladish Tri-Clover Bevel Seal Replaces 16 A Plain Cap	10 psig and up	.13 cubic inches
CSG	Ladish Tri-Clover Gasket Seal Replaces 16 AG Cap	10 psig and up	.13 cubic inches
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" Cherry-Burrell "S" Clamp	10 psig and up	.06 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

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