

## Diaphragm Seals

# Type SCW Series Diaphragm Seal Elements for Fugitive Emissions

### DESCRIPTION

AMETEK developed the Type SCW Series flange-attached diaphragm seals for applications requiring control of fugitive emissions and for leak protection against toxic and explosive media as defined the EPA Clean Air Act of 1990.

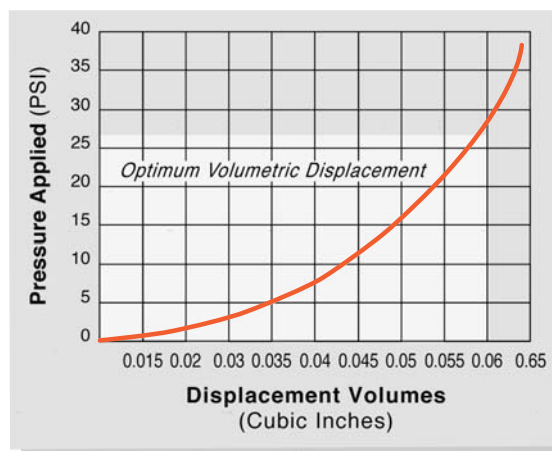
The SCW seals have are all-welded with stainless steel housings and continuous duty convoluted diaphragm. They feature an ANSI standard slip on flange for easy installation. The top housing is welded to the bottom, providing a permanent seal without a gasket.

This seal is also available HASTELLOY® C, MONEL®, and other materials (consult factory).



### FEATURES

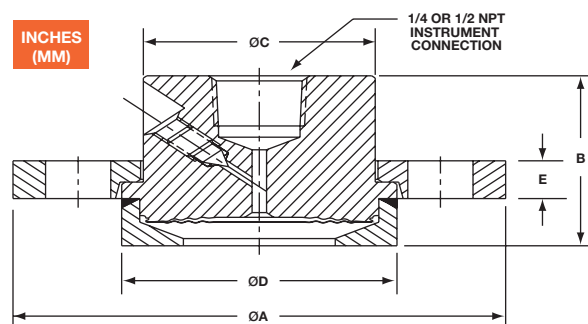
- Ideal for applications requiring control of fugitive emissions
  - Leak protection against toxic and explosive media as defined by EPA Clean Air Act of 1990
- Continuous duty
- Permanent seal without gasket
- Materials available for corrosive applications
- Pressure ranges from 10 psig (.7 bar) to ANSI Class 300
- Standard volumetric displacement is .06 cubic inch



### Pressure vs. Volumetric Displacement

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.

SIZE (INCHES)	CLASS	A	B	C	D	E
1	150	4.25 (108.0)	2.25 (57.15)	2.0 (50.8)	2.38 (60.5)	0.5 (12.7)
1	300	4.88 (124.0)	2.25 (57.15)	2.0 (50.8)	2.38 (60.5)	0.62 (15.8)
1.5	150	5.0 (127.0)	2.12 (53.8)	2.0 (50.8)	2.88 (73.15)	0.62 (15.8)
1.5	300	6.12 (155.5)	2.12 (53.8)	2.0 (50.8)	2.88 (73.15)	0.75 (19.1)
3	150	7.5 (190.5)	2.62 (66.6)	2.0 (50.8)	5.0 (127.0)	0.88 (22.4)
3	300	8.25 (209.6)	2.81 (71.4)	2.0 (50.8)	5.0 (127.0)	1.06 (26.9)



© 2006, by AMETEK, Inc. All rights reserved. PDF606 (160126) Specifications are subject to change without notice. Visit our Web sites for the most up-to-date information.

**AMETEK®**

**ISO 9001:2000**  
CERTIFIED

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:

**PMT PRODUCTS**  
820 Pennsylvania Blvd.  
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