

Type 310, 315 All-Welded "Mini" Diaphragm Seal



PRODUCT FEATURES

- · Compact size to fit space-restricted areas
- · Designed to protect transducers, miniswitches and 31/2" or smaller pressure gauges from corrosion, plugging or freeze-up
- · All-welded metal construction prevents leakage of process media
- · Rated for 2500 psi at 100°F
- · Fill/bleed connection is standard
- · Available with male process connection (Type 315)

The compact size of the Ashcroft® 310 mini-seal allows it to fit into space-restricted areas and is designed to protect transducers, mini-switches, and 31/2" or smaller dial size pressure gauges from corrosion, plugging or freeze- up. All welded metal construction prevents leakage of process media. It is rated for 2500 psi at 100°F and has a 316L stainless steel top housing standard. Lower housing materials include 316L stainless steel or Hastelloy C. Diaphragm materials include 316L stainless, Hastelloy C or Tantalum. ¼ NPT or ½ NPT process connection sizes are available.

PRODUCT SPECIFICATIONS

Type 310, 315 Model Number:

Process

Connection Size:

1/4", 1/2" (3/4", 1"- 315 only)

(see table A)

Instrument Connection Size:

1/8, 1/4 NPT

Diaphragm Material: 316L SS, Hastelloy C276,

Tantalum, Monel

Bottom Housing

Materials:

Filling Fluid:

316L SS, Hastelloy C276, Monel, Hastelloy B

Glycerin, Silicone,

Halocarbon, Syltherm



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Table A – Process Connection			
Size	Code		
1/8	01		
1/4	02		
1/2	04		
3/4	06		
1	08		
1/4	25		
1/2	50		
	\$\frac{1}{8}\$ \$\frac{1}{4}\$ \$\frac{1}{2}\$ \$\frac{3}{4}\$ \$\frac{1}{1}{4}\$		

^{*}Available in Type 310 only. †Available in Types 310 & 315.

Pressure Ratings – All 2500 psi except flanged seals are per ASME B 16.5, temperature limit determined by diaphragm, bottom housing and/or filling fluid.

Table B – Type	
Description	Code
All-welded mini-seal	310
All-welded midi-seal w/flushing connection	315

Table C - Diaphragm Materials		
Materials	Code	
316L stainless steel	S	
Hastelloy C-276	Н	
Tantalum	U	
Monel	Р	

Table D - Housing Materials				
Bottom ⁽¹⁾	Code	Top ⁽²⁾		
316L SS	S	316L SS		
Hastelloy C-276	Н	316L SS		
Monel	M	Monel		

- (1) Other bottom housing materials on application.
- (2) Top housing material is 316L SS (standard). Monel mini-seal standard with monel top housing.

Table E – Instrument Connection			
Instrument Connection	Size	Code	
Threaded – female NPT	1/4	02T	
Threaded – female NPT	1/8	01T	

NOTES:

- (1) For use with most 312" and smaller gauges. Movementless gauge 4% (exception).
- (2) Other bottom housing materials on application.
- (3) Top housing material is 316L SS (standard). Monel mini-seal standard with monel top housing.
- (4) Not available with monel bottom housing.

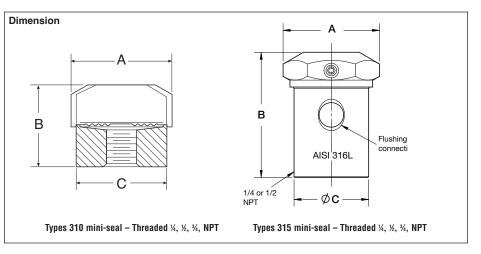
Table F – Filling Fluid				
Service	Connection to Instrument	Temperature Range °F	Code	
Pressure	Direct Only	0/400	CG	
Pressure/Vacuum	Direct or Flexible Line	-40/600	CK	
Pressure/Vacuum in presence of strong oxidizing agent	Direct or Flexible Line	-70/300	CF	
Pressure	Direct or Flexible Line	-40/750	HA	
	Service Pressure Pressure/Vacuum Pressure/Vacuum in presence of strong oxidizing agent	Service Connection to Instrument Pressure Direct Only Pressure/Vacuum Direct or Flexible Line Pressure/Vacuum in presence of strong oxidizing agent Direct or Flexible Line	Service Connection to Instrument Temperature Range °F Pressure Direct Only 0/400 Pressure/Vacuum Direct or Flexible Line -40/600 Pressure/Vacuum in presence of strong oxidizing agent Direct or Flexible Line -70/300	

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HOW TO ORDER:

- 1. From Table A... select PROCESS CONNECTION (e.g., 1/4" process code 25)
- 2. From Table B... select TYPE (310)
- 3. From Table B... select DIAPHRAGM MATERIAL. (e.g., 316L stainless steel-code S)
- 4. From Table C... select BOTTOM HOUSING MATERIAL. (e.g., 316 stainless steel-code S)
- 5. From Table D... select INSTRUMENT CONNECTION size. (e.g., 1/4 NPT-code 02T)
- 6. From Table E... select FILLING FLUID, if diaphragm seal will be attached to instrument. (e.g., Glycerin-code CG)

Coded order: 25-310SS-02T-CG



	Α	В	C
	in mm	in mm	in mm
Type 310	1.75 (38)	.81 (30)	1.34 (34)
Type 315	1.73 (44)	2.25 (57.2)	1.34 (34)