



ONYX VALVE

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PSR

The Onyx Isolator Ring provides a simple, accurate method to measure pressure of slurries and corrosive fluids. The PSR series is compatible with flanged pipe connections. The full face thru bolt holes match the bolt circle of mating flanges for accurate alignment making it the ideal choice for use with non-metallic flanges.

The inside diameter of the PSR precisely matches standard pipe for smooth, unobstructed flow, self-cleaning operation, and minimum turbulence and friction. Onyx ultra-deep vacuum filling insures the highest accuracy in the industry. The patented "Module Seal" - standard on all Onyx Isolator Rings - allows instruments to be or replaced or calibrated without interrupting the process.

Materials of Construction

Center Section:	Carbon Steel*	PVC-C	316 Stainless Steel
End Plates:	Acetal (Standard) 316 Stainless Steel Teflon	Kynar Titanium PVC	UHMW-PE Carpenter-20
Elastomer: (*Available with optional Teflon coatings)	Nitrile (Buna-N) EPDM* (Nordel*) Neoprene Viton* Hypalon	-30°F → 220°F -40°F → 300°F -20°F → 220°F -15°F → 375°F -10°F → 250°F	
Fill Fluid:	Silicone Fluid Food Grade Silicone	-40°F → 400°F -20°F → 400°F	
Module Seal Stinger Fitting:	Brass	316 Stainless Steel	
Pipe Fittings:	Carbon Steel	316 Stainless Steel	
Pressure Range:	Vacuum to +1,000 psi	The Onyx Isolator ring has been tested by an independent lab to 1,500 psi.	



Benefits Listed:

- Absolute immunity to clogging
- Available with either 150# or 300#
- Integral snubber eliminates gauge fluctuations at no additional cost
- Instruments can be replaced without vacuum filling
- Immune to errors caused by ambient temperature fluctuations
- No tools required to change pressure instruments

Size	ØA	B
1	4.25	1.87
1 ½	5.00	1.87
2	6.00	1.87
2 ½	7.00	1.87
3	7.50	1.87
4	9.00	2.12
5	10.00	2.25
6	11.00	2.25
8	13.50	2.25
10	16.00	2.81
12	19.00	3.12
14	21.00	3.12
16	23.50	3.12
18	25.00	3.12
20	27.50	3.12
24	32.00	3.12
30	38.75	3.12
36	41.12	4.00
42	53.00	4.00

