

When a gauge or switch is screwed directly into a pipeline, solids from the process flow can quickly plug the pressure-sensing mechanism. The result? Erroneous pressure readings.

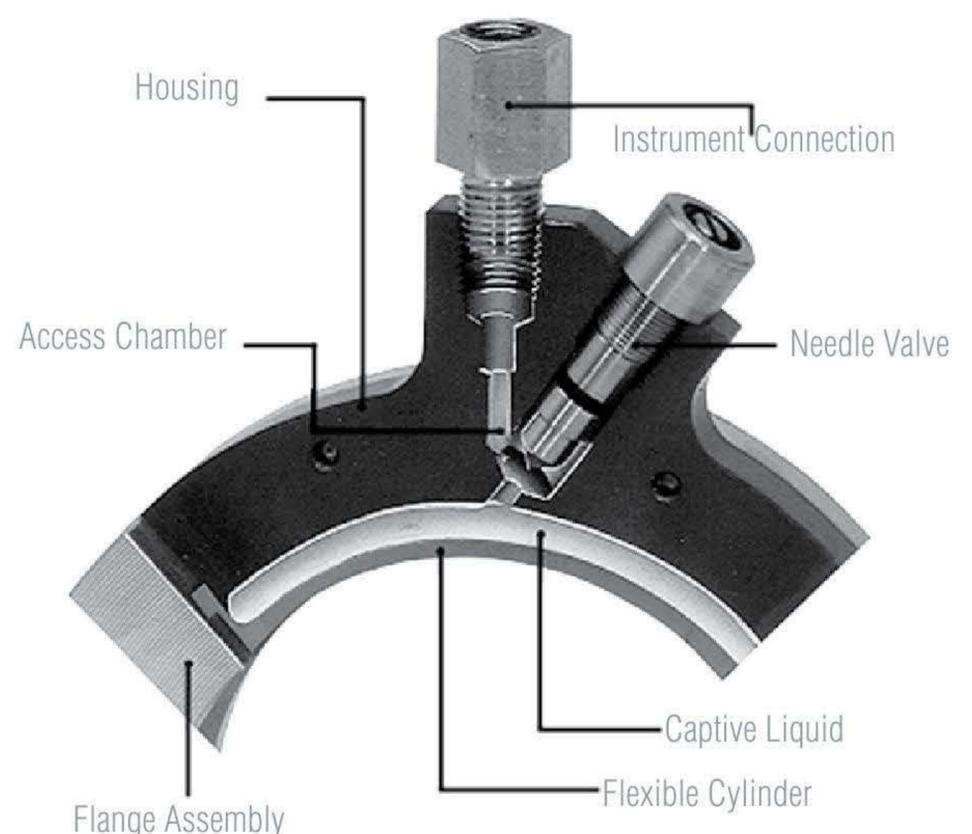
Using a diaphragm seal to isolate the gauge or switch from the process flow doesn't solve the problem either. That's because those solids will quickly clog the access port on the diaphragm seal too.

With the Hex Isolation Ring, clogging or fouling is never a problem. That's because of the flexible inner cylinder, behind which is a clean, captive liquid. As process liquid flows through the pipe, it exerts pressure, which is transmitted through the flexible cylinder to the captive liquid. The pressure exerted by the captive liquid is then monitored by the gauge's or switch's sensing mechanism. In other words, the sensing mechanism on the gauge or switch never comes in contact with the process liquid...it's completely isolated from the flow.

A 360° flexible cylinder means no plugging and assures a reliable and more accurate pressure readings than you'll find with conventional diaphragm seals.

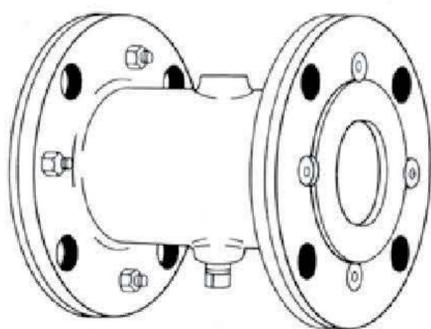
Because there's no access port on the Isolation Ring, there's no collection point for solids to build-up and no openings to the plug. The inner flexible cylinder is the same diameter as the inner diameter of the piping, so it's continually cleaned by the flowing liquid. The result? You always get dependable pressure readings.

What's more, pressure readings that are obtained via the Isolation Ring represent the circumferential average of the pipe's internal pressure distribution - not just the pressure at a single point in the line like you'd get with a diaphragm seal. As a result, readings are more consistent.

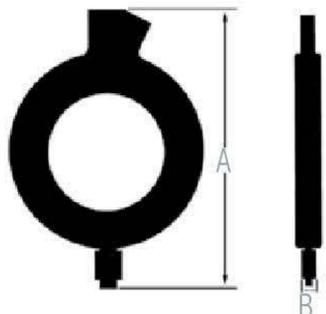
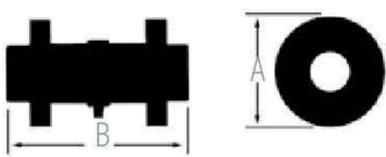
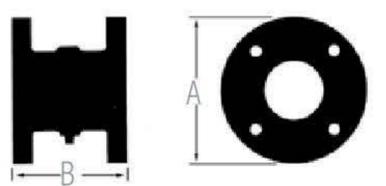


Isolation Spool for small diameter piping

Designed to provide a large sensing area in the smaller pipe diameters from 1" to 4", the patented isolation spool is offered in both NPT threaded and flanged models. Available with flat or raised face.



Specifications		
	ISO-Ring	ISO-Spool
Housing	Carbon Steel Stainless Steel	Carbon Steel
Assembly Flanges	Carbon Steel 316 Stainless Steel CPVG	Carbon Steel 316 Stainless Steel CPVC Teflon enveloped
Inner Flexible Wall	Buna N Teflon Silicone Viton White Neoprene Natural Rubber	up to 225°F (107°C) up to 350°F (225°C) up to 450°F (232°C) up to 350°F (225°C) up to 225°F (107°C) up to 225°F (107°C)
Captive Sensing Liquid	50% Water / 50% Prop. Glycol Silicone Oil (FDA Approved) Fluorosilicone Mineral Oil Distilled Water	-20°F to 200°F (-29°C to 93°C) -20°F to 450°F (-29°C to 232°C) -20°F to 450°F (-29°C to 232°C) 35°F to 225°F (1,7°C to 107°C) 35°F to 200°F (1,7°C to 93°C)

Specifications							
	Type	Pipe Size	A	B	Weight		
	Iso-Ring	2"	6-15/16" (176mm)	2" (51mm)	3 lbs (1,4 kgs)		
		3"	8-3/16" (208mm)	2" (51mm)	6 lbs (2,7 kgs)		
		4"	9" (229mm)	1-1/2" (38mm)	8 lbs (3,6 kgs)		
		5"	10-1/4" (260mm)	1-1/2" (38mm)	10 lbs (4,5k gs)		
		6"	11-3/16" (284mm)	1-1/2" (38mm)	12 lbs (5,4 kgs)		
		8"	13-3/8" (340mm)	1-1/2" (38mm)	16 lbs (7,3 kgs)		
		10"	15-9/16" (395mm)	1-1/2" (38mm)	20 lbs (9,1 kgs)		
		12"	17-9/16" (446mm)	1-3/4" (44mm)	25 lbs (11,4 kgs)		
		14"	19-5/16" (506mm)	1-3/4" (44mm)	50 lbs (22,7 kgs)		
		16"	21-15/16" (557mm)	2" (51mm)	60 lbs (27,2 kgs)		
		18"	24-3/16" (614mm)	2" (51mm)	70 lbs (32 kgs)		
		20"	26-1/16" (662mm)	2" (51mm)	80 lbs (36 kgs)		
	Iso-Spool (threaded)	1"	3-9/16" (90mm)	7-5/8" (194mm)	10 lbs (4,5 kgs)		
		1-1/2"	4-3/8" (111mm)	7-7/8" (200mm)	12 lbs (5,4 kgs)		
	Iso-Spool (flanged)		Class 150	Class 300	Class 150	Class 300	
		1"	4-1/4" (108mm)	4-7/8" (124mm)	5-3/8" (136mm)	8 lbs (3,6 kgs)	9 lbs (4,1 kgs)
		1-1/2"	5" (127mm)	6-1/8" (156mm)	5-3/8" (136mm)	10 lbs (4,5 kgs)	12 lbs (5,4 kgs)
		2"	6" (152mm)	-	5-3/8" (136mm)	15 lbs (6,8 kgs)	-
		3"	7-1/2" (191mm)	-	5-3/8" (136mm)	22 lbs (10 kgs)	-
		4"	9" (229mm)	-	5-3/8" (136mm)	27 lbs (12 kgs)	-