

## Data Sheet

### 80 Wafer Isolation Ring

#### FEATURES

- 360° Instrument rotation with SQR™ option
- Selection of 2" through 20" nominal pipe size
- Non-clogging/low maintenance
- Complete instrument protection
- Ensure reliable/accurate pressure readings
- Optional retrofit end plates to replace competitive units

#### TYPICAL USES

- Water and wastewater
- Mining

#### SPECIFICATIONS

Sizes:	2" to 20"
Process Connection Size:	¼, ½ NPT
Pressure Rating (MAWP):	Per customer flanges: ASME B16.5 150 or 300 class
Fill:	Glycerin: 0°F to 400°F (-18°C to 204°C) Silicone (10Cst): -40°F to 500°F (-40°C to 260°C) Silicone (50Cst): -40°F to 600°F (-40°C to 316°C) Halocarbon®: -70°F to 300°F (-57°C to 149°C)
Instrument Options:	Direct-mount, Needle valve, Safe Quick Release (SQR™), Needle valve and SQR™ (02T conn.)
Added Tolerance:	±0.5% typical
Approvals:	CRN

#### WETTED COMPONENTS

End Plate Material	Flexible Liner
Carbon steel, 316L SS, PVDF	Buna, PTFE, EPDM, Natural rubber, and Viton®

#### NON-WETTED COMPONENTS

Body
Carbon Steel, 316Stainless steel

#### MIN/MAX TEMPERATURE LIMITS

Liner	Temperature Limits
Buna-N	-30°F to 225°F (-34°C to 107°C)
Teflon	-15°F to 350°F (-25°C to 177°C)
Viton	-15°F to 350°F (-25°C to 177°C)
Natural Rubber	-30°F to 225°F (-34°C to 107°C)
EPDM	-40°F to 300°F (-40°C to 149°C)



#### 80 Wafer Isolation Ring

Nominal Size: 2" to 20"

#### KEY BENEFITS

- Reliable when continuous pressure measurements are needed
- Non-clogging and low maintenance
- Complete instrument protection

## Data Sheet

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ORDERING CODE	Example:	80	02	E	B	B	02T	N	000	XCK	H3	NH
<b>Seal Type</b>												
80 - Wafer style isolation ring		80										
<b>Process Connection Size</b>												
02 - 2" (see table 2 on page 3)			02									
<b>Inner Flexible Wall</b>												
E - Buna-N				E								
T - PTFE (available in 2" to 10")												
Y - Viton®												
R - Natural rubber												
P - EPDM												
<b>End Plate Material</b>												
B - Carbon steel					B							
S - 316L Stainless steel												
F - PVDF												
<b>Body Material</b>												
B - Carbon steel						B						
S - 316L Stainless steel												
<b>Instrument Connection Size</b>												
02T - ¼ NPT Female							02T					
04T - ½ NPT Female (ring body tapped with ¼ NPT connection; 04T connection utilizes ¼-½ NPT adapter)												
<b>Instrument Removal Option</b>												
N - Direct-mount								N				
V - Needle valve												
Q - Safe Quick Release (SQR™)												
Z - Needle valve and SQR (Requires 02T instrument connection)												
<b>Pressure Class</b>												
000 - Wafer design									000			
<b>Options</b> (if choosing option(s) must include an "X")										X__		
Fill Fluid (see table 3 on page 3 for more available fill fluids)												
CG - Glycerin												
CK - Silicone 50cSt										CK		
CF - Halocarbon®												
CT - 50/50 Ethylene Glycol/water												
<b>Multiple Instrument Assemblies</b> (contact factory for additional arrangements or custom orientations.)												
H3 - ¼ NPT gauge/ ¼ NPT transducer/ 02T isolation ring											H3	
H5 - ½ NPT gauge/ ½ NPT switch/ 04T isolation ring												
H6 - ½ NPT gauge/ 2 ½ NPT switches/ 02T isolation ring												
H7 - ¼ NPT gauge/ ¼ NPT switch/ 02T isolation ring												
<b>Optional Features</b>												
IR - Retrofit end plates (custom end plate widths for drop-in replacements)												
NH - Stainless steel tag wired to ring												NH
Q8 - Elbow for vertical pipe installation (02T connection only)												

Consult factory for multiple instrument assemblies, welded assembly options, additional process connection sizes and fill fluids

# Data Sheet

## 80 Wafer Isolation Ring

**TABLE 2 – PROCESS CONNECTION TABLE**

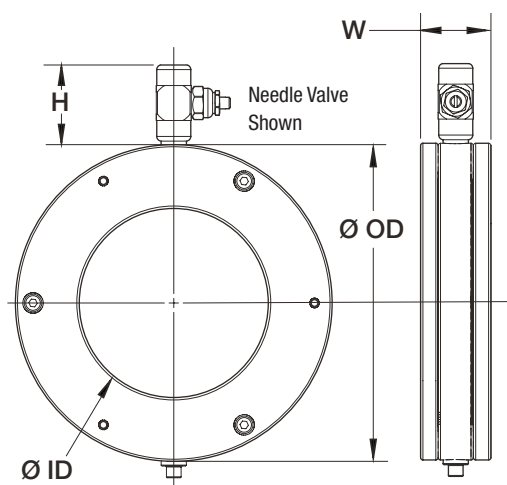
Process Connection Code (Nominal Size)	Type 80 (Ordering Code)
2"	02
3"	03
4"	04
5"	05
6"	06
8"	08
10"	10
12"	12
14"	14
16"	16
18"	18
20"	20

Consult factory for larger sizes

**TABLE 3 – FILL FLUID TABLE**

Fill Fluid	Temperature Range	Code
Glycerin	0°F to 400°F (-18°C to 204°C)	CG
Silicone 10cSt	-40°F to 500°F (-40°C to 260°C)	DJ
Silicone 50cSt	-40°F to 500°F (-40°C to 260°C)	CK
Halocarbon®	-80°F to 390°F (60°C to 200°C)	CF
50/50 Ethylene Glycol/Water	-25°F to 190°F (-32°C to 88°C)	CT

### DIMENSIONS



Nominal Pipe Size Inches	Inner Diameter (ID)	Outer Diameter (OD)	Width (W)	H			Weight Lbs.
				Direct	Safe Quick Release	Needle Valve	
2	2.07	4.00	2.00	1.89	2.04	1.70	4.00
3	3.07	5.25	2.00	1.89	2.04	1.70	6.30
4	4.03	6.75	1.50	1.89	2.04	1.70	8.00
5	5.05	7.63	1.50	1.89	2.04	1.70	9.50
6	6.07	8.63	1.50	1.89	2.67	2.32	10.20
8	7.98	10.88	1.50	2.39	2.67	2.32	14.90
10	10.02	13.25	1.50	2.39	2.67	2.32	21.30
12	12.00	16.00	1.75	2.39	2.67	2.32	39.10
14	13.25	17.63	1.75	2.89	3.17	2.82	47.80
16	15.25	20.13	1.75	2.89	3.17	2.82	61.80
18	17.25	21.50	1.75	2.89	3.17	2.82	58.00
20	19.25	23.75	1.75	2.89	3.17	2.82	68.80