

High Displacement Diaphragm Seals

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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001



TYPE 29

- An off-line seal with a threaded connection and all welded, all metallic housing design that does not utilize an o-ring or gasket
- Designed with a larger diameter diaphragm for higher displacement capability
- Maximum pressure rating is 2,500 psi
- A variety of upper and lower housing and diaphragm materials are available to suit most applications
- A flushing port is available to clean wetted areas and prevent process media build up
- Consider gauge size, pressure range, media composition, ambient and operating temperature, and maximum working pressure when selecting
- For process temperatures over 212° F a capillary or cooling element is recommended, contact factory to order
- Fill fluid must be compatible with process media; i.e. Glycerine may become volatile in conjunction with a strong oxidizing agent such as chlorine, forms of oxygen or peroxide and nitric acids

PRODUCT SPECIFICATIONS

Suitable Pressure Gauge Sizes	2-1/2, 4 and 4-1/2 Inch Will also operate with most transducers, transmitters and pressure switches
Minimum Working Pressure	0 psig to 30 psig through 0 psig to 2,500 psig
Maximum Working Pressure	2,500 psig @ 100 °F
Operating Temperature	Refer to fill fluid expansion factors table below

Fill Fluid Temperature Table

Fill Fluid	Temperature Range (°F)
Glycerine*	30 - 300
Silicone 200-10	-35 - 450
Silicone 704	30 - 520
Silicone 710	30 - 650
Silicone 550	-40 - 600
Silicone 510	-60 - 400
Fluorolube FS-5	-40 - 500
Silicone 200-350	0 - 300
Halocarbon Oil 6.3	-40 - 400
Ethylene Glycol	-30 - 300
Propylene Glycol	-50 - 200
Syltherm 800	-40 - 450
Mineral Oil	Note 1
Neobee M-20	-40 - 320

*Not recommended for use on vacuum applications
Note 1. To be advised

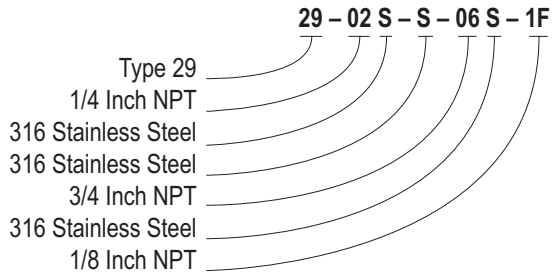
ORDERING INFORMATION			
TYPE	29	2,500 psi	
INSTRUMENT CONNECTION SIZES	02	1/4 inch NPT	
	04	1/2 inch NPT	
UPPER HOUSING MATERIAL	M	Monel 400	S 316 Stainless Steel
	P	Carpenter 20	
DIAPHRAGM MATERIAL	H	Hastelloy C-276	P Carpenter 20 ¹
	M	Monel 400 ¹	
	S	316 Stainless Steel	
PROCESS CONNECTION SIZES	02	1/4 Inch NPT	
	04	1/2 Inch NPT	
	06	3/4 Inch NPT	
	08	1 Inch NPT	
LOWER HOUSING MATERIAL	H	Hastelloy C-276	P Carpenter 20
	M	Monel 400	
	S	316 Stainless Steel	
FLUSHING CONNECTION	1F	1/8 Inch NPT	
	2F	1/4 Inch NPT	

1) When selecting a Monel or Carpenter 20 Diaphragm, the upper & lower housing must be the same material

NOTE: For process temperatures over 212°F, a capillary or cooling element is recommended. Contact NOSHOK factory to order.

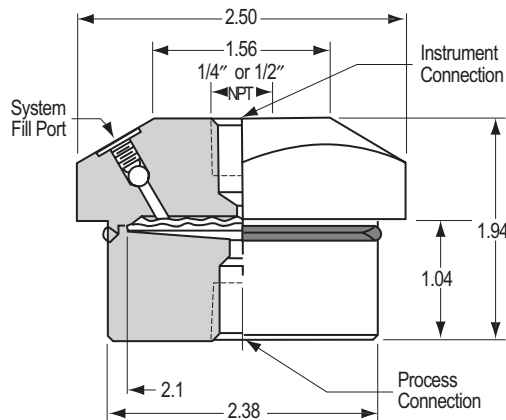
EXAMPLE

- Model Selection**
- Instrument Connection Size**
- Upper Housing Material**
- Diaphragm Material**
- Process Connection Size**
- Lower Housing Material**
- Flushing Connection (Optional)**



OUTLINE DIMENSIONS

**Type 29 High Displacement,
All Welded Diaphragm Seal**



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