

Diaphragm Seals



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TYPE 20

- Designed for applications requiring an NPT male threaded process connection and with a flush diaphragm
- Flush diaphragm construction prevents clogging and process material build-up
- Constructed with a 316 stainless steel housing and diaphragm for strength and durability
- Maximum pressure rating is 9,000 psi
- Available instrument connection sizes are 1/4 and 1/2 inch with a process connection size of 1/2 inch NPT male to 2 inch NPT male
- 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 Instrument	Will operate with most transducers, transmitters and pressure switches
Minimum Working Pressure	0 psig to 30 psig through 0 psig to 9,000 psig*
Maximum Working Pressure	9,000 psig @ 100 °F
Operating Temperature	Refer to fill fluid expansion factors table below

* Depending on process connection size

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	20	9,000 psi	
INSTRUMENT CONNECTION SIZES	02	1/4 inch NPT	
	04	1/2 inch NPT	
HOUSING MATERIAL	S	316 Stainless Steel	
DIAPHRAGM MATERIAL	S	316 Stainless Steel	
PROCESS CONNECTION SIZES	04	08	16
	1/2 Inch NPT	1 Inch NPT	2 Inch NPT
	06	12	
	3/4 Inch NPT	1-1/2 Inch NPT	

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

EXAMPLE

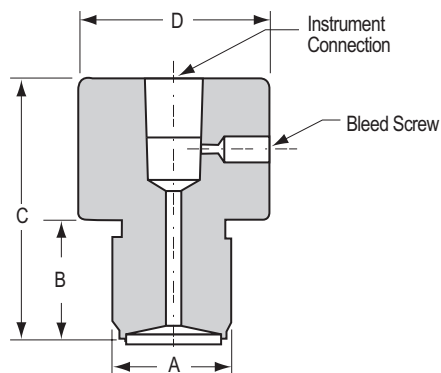
Model Selection
Instrument Connection Size
Housing Material
Diaphragm Material
Process Connection Size

20 - 02 S - S - 06

Type 20
1/4 Inch NPT
316 Stainless Steel
316 Stainless Steel
3/4 Inch NPT

OUTLINE DIMENSIONS

Type 20 Front Flush Style Diaphragm Seal



A	B	C	D
1/2" NPT	0.8	1.9	1.50
3/4" NPT	0.8	1.8	1.63
1" NPT	1.1	2.5	1.75
1 1/2" NPT	1.2	2.0	2.00
2" NPT	1.2	2.4	2.63