TYPE 30, 30H & 30H1

- Utilizes an all metallic diaphragm welded to the upper housing to allow field replacement of the lower housing while maintaining continuity of the measuring system
- A wide variety of instrument and process connections are available
- 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, 4-1/2 and 6 Inch Will also operate with most transducers, transmitters and pressure switches
Minimum Working Pressure	**30:** 0 psig to 30 psig through -30″ Hg to 2,500 psig **30H, 30H1:** 0 psig to 30 psig through 0 psig to 10,000 psig
Maximum Working Pressure	**30:** 2,500 psig @ 100 ºF **30H, 30H1:** 5,000 psig, 10,000 psig @ 100 ºF
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	**30**	2,500 psi	**30H**	5,000 psi	**30H1**	10,000 psi		
INSTRUMENT CONNECTION SIZES	**02** **04**	1/4 inch NPT 1/2 inch NPT						
UPPER HOUSING MATERIAL	**C** **M**	Carbon Steel Monel 400	**P** **S**	Carpenter 20 316 Stainless Steel	**U**	Titanium Grade 4		
DIAPHRAGM MATERIAL	**A** **H**	Tantalum Hastelloy C-276	**M** **N**	Monel 400[1] Inconel 600	**P** **S**	Carpenter 20[1] 316 Stainless Steel	**U**	Titanium Grade 4[1]
SEAL GASKET MATERIAL	**H** **R**	Silver Plated HC (5,000 psi and above) Klingersil C-4401 (Rated to 1,500 psi)	**S** **T**	Silver Plated SS (5,000 psi and above) Teflon®			**V**	Viton®
PROCESS CONNECTION SIZES	**02** **04**	1/4 Inch NPT 1/2 Inch NPT (ASME and DIN Flanges Available Upon Request)	**06** **08**	3/4 Inch NPT 1 Inch NPT	**10** **12**	1-1/4 Inch NPT 1-1/2 Inch NPT		
LOWER HOUSING MATERIAL	**C** **H**	Carbon Steel Hastelloy C-276	**M** **N**	Monel 400 Inconel 600	**P** **S**	Carpenter 20 316 Stainless Steel	**U**	Titanium Grade 4
FLUSHING CONNECTION[2]	**1F**	1/8 Inch NPT	**2F**	1/4 Inch NPT				

1) When selecting a Monel 400, Carpenter 20 or Titanium Grade 4 Diaphragm, the upper housing must be the same material
2) Not available on 10,000 psi model.

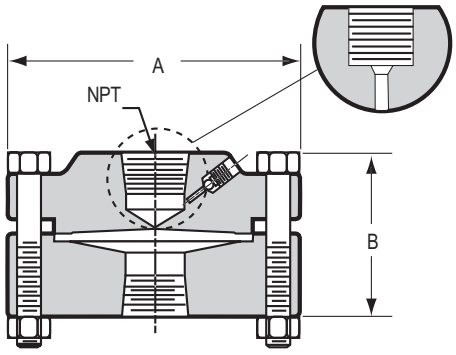
NOTE: For process temperatures over 212°F, a capillary or cooling element is recommended. Contact NOSHOK factory to order.

EXAMPLE **30 – 04 S – S – R – 04 S – 1F**

Model Selection	Type 30
Instrument Connection Size	1/2 Inch NPT
Upper Housing Material	316 Stainless Steel
Diaphragm Material	316 Stainless Steel
Seal Gasket Material	Klingersil C-4401
Process Connection Size	1/2 Inch NPT
Lower Housing Material	316 Stainless Steel
Flushing Connection (Optional)	1/8 Inch NPT

OUTLINE DIMENSIONS

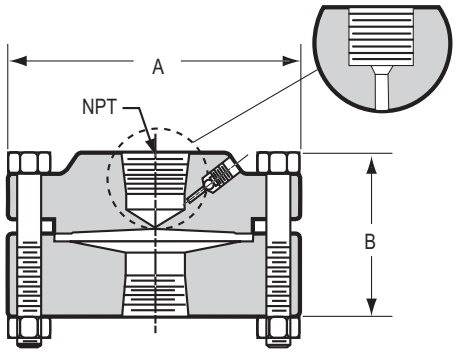
Type 30 Standard Pressure Diaphragm Seal



Dimensional Data
Process Connection Size

	1/8 - 1/4	3/8 – 1-1/2
A	3.5	3.5
B	1.56	2.00

Type 30H Elevated Pressure Diaphragm Seal



Dimensional Data
Process Connection Size

Pressure Rating	1/8 -1/4		3/8 -1/2	
	A	B	A	B
5000	4.0	2.25	4.0	2.25
10000	4.0	2.31	4.0	2.31

Diaphragm Seals

TYPE 30L

- Designed for lower pressure applications
- Utilizes an all metallic diaphragm welded to the upper housing to allow replacement of the non-metallic lower housing while maintaining continuity of the measuring system
- Maximum pressure rating is 200 psi
- 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
- Maximum temperature rating is 140° F
- 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, 4-1/2 and 6 Inch Will also operate with most transducers, transmitters and pressure switches
Minimum Working Pressure	0 psig to 30 psig through -30 Hg to 200 psig
Maximum Working Pressure	200 psig @ 140 ºF
Operating Temperature	140°F MAX

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	**30L**	200 psi						
INSTRUMENT CONNECTION SIZES	**02** **04**	1/4 inch NPT 1/2 inch NPT						
UPPER HOUSING MATERIAL	**C** **M**	Carbon Steel Monel 400	**P** **S**	Carpenter 20 316 Stainless Steel	**U**	Titanium Grade 4		
DIAPHRAGM MATERIAL	**A** **H**	Tantalum Hastelloy C-276	**M** **N**	Monel 400[1] Inconel 600	**P** **S**	Carpenter 20[1] 316 Stainless Steel	**U**	Titanium Grade 4[1]
SEAL GASKET MATERIAL	**R**	CGR 2750	**T**	Teflon®	**V**	Viton®		
PROCESS CONNECTION SIZES	**02** **04**	1/4 Inch NPT 1/2 Inch NPT	**06** **08**	3/4 Inch NPT 1 Inch NPT	(ASME and DIN Flanges Available Upon Request)			
LOWER HOUSING MATERIAL	**KN** **PP**	Kynar Polypropylene	**PV** **TC**	PVC Teflon® (Carbon Filled)	**TG**	Teflon® (Glass Filled)		

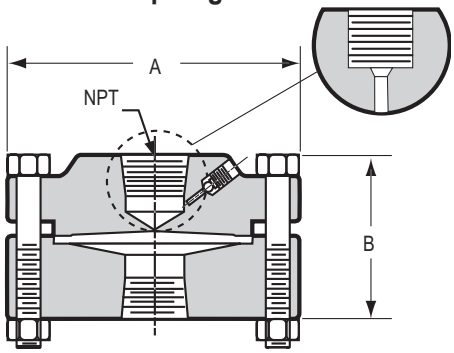
1) When selecting a Monel 400, Carpenter 20 or Titanium Grade 4 Diaphragm, the upper housing must be the same material

EXAMPLE **30L – 02 C – S – R – 06 PV**

Model Selection	Type 30L
Instrument Connection Size	1/4 Inch NPT
Upper Housing Material	Carbon Steel
Diaphragm Material	316 Stainless Steel
Seal Gasket Material	CGR 2750
Process Connection Size	3/4 Inch NPT
Lower Housing Material	PVC

OUTLINE DIMENSIONS

Type 30L Reduced Pressure Diaphragm Seal



Dimensional Data
Process Connection Size

PVC-Kynar-Polypropylene			
	1/8 - 1/4	**3/8 -1**	**1-1/4 –1-1/2**
A	4.0	4.0	4.0
B	2.00	2.00	2.00
Teflon-Glass/Carbon			
A	4.0	4.0	4.0
B	2.12	2.12	2.12