

# Reduced Pressure Polymer Diaphragm Seals



## TYPE 5

- For wastewater and chemical feed applications, as well as most applications with a corrosive media
- Constructed of corrosion-resistant PP glass fiber reinforced upper housing and PP, PVC or PVDF lower housing
- Protects pressure or vacuum instruments used on ultra-pure or highly corrosive fluid lines such as demineralized water, sulfuric acid, hydrochloric acid, and caustics
- Teflon™ coated EPDM diaphragms are standard on all assemblies
- 100% non-metallic construction assures maximum chemical and temperature compatibility

### PRODUCT SPECIFICATIONS

|                                      |                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Suitable Pressure Gauge Sizes</b> | 2-1/2 inch, 4, 4-1/2 and 6 inch<br>Will also operate with most transducers, transmitters and pressure switches |
| <b>Minimum Working Pressure</b>      | 0 psig to 30 psig                                                                                              |
| <b>Maximum Working Pressure</b>      | See temperature / pressure chart                                                                               |
| <b>Upper Housing Material</b>        | Polypropylene                                                                                                  |
| <b>Diaphragm</b>                     | EPDM-PTFE coated on process side                                                                               |
| <b>Lower Housing Material</b>        | PVC, Polypropylene or Kynar                                                                                    |

The pressure/temperature limits are applicable for a computed operating life factor of 25 years at 150 psi. The values are a guide for harmless media the material of the valve is resistant against.

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                        | 05 | 160 psi maximum pressure         |          |
| INSTRUMENT CONNECTION SIZES | 02 | 1/4 inch NPT                     |          |
|                             | 04 | 1/2 inch NPT                     |          |
| UPPER HOUSING MATERIAL      | PP | Polypropylene                    |          |
| DIAPHRAGM MATERIAL          | E  | EPDM-PTFE coated on process side |          |
| PROCESS CONNECTION SIZES    | 02 | 1/4 Inch NPT                     |          |
|                             | 04 | 1/2 Inch NPT                     |          |
| LOWER HOUSING MATERIAL      | PV | PVC                              | KN Kynar |
|                             | PP | Polypropylene                    |          |

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

**EXAMPLE**

Model Selection Type 05

Instrument Connection Size 1/2 inch NPT

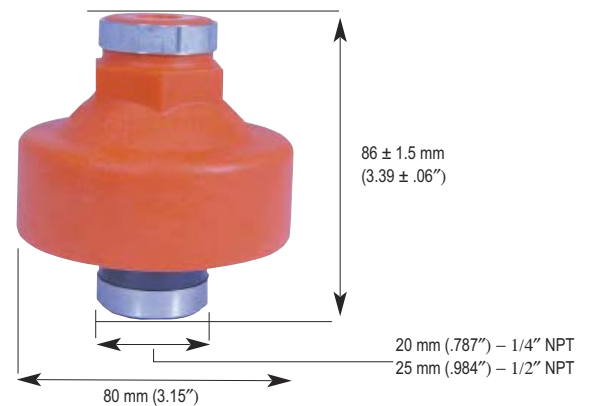
Upper Housing Material Polypropylene

Diaphragm Material EPDM-PTFE

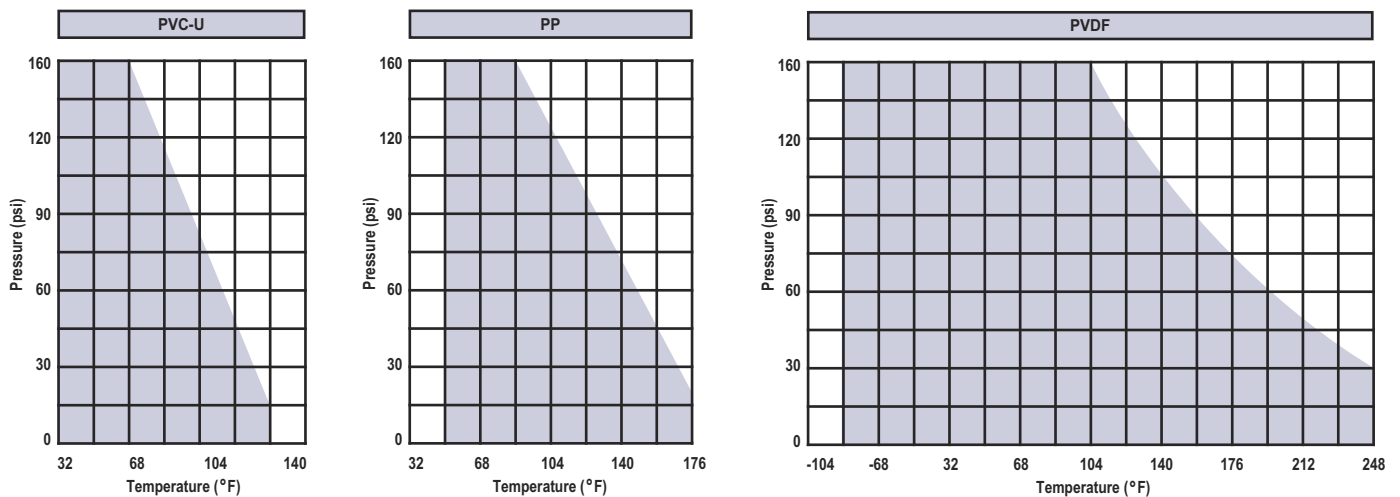
Process Connection Size 1/2 inch NPT

Lower Housing Material PVC

5 - 04 PP - E - 04 - PV



### Pressure / Temperature Diagrams



The pressure/temperature limits are applicable for a computed operating life factor of 25 years at 150 psi. The values are a guide for harmless media the material of the valve is resistant against.

Durability of wear and tear parts is depending on the operating conditions of the application. Values below 32° F (PP < 50° F) on request with exact data of operation.