## Replaceable Diaphragm

## Flow-Through Annular Style



## TYPE 40

- Process liquid flowing through the pipe exerts pressure onto a flush-mounted flexible inner cylinder containing clean, captive liquid; completely isolating instrumentation from the process flow and preventing plugging
- Can be used for remote mounting of pressure instrument(s) with capillary
- Instrumentation can be removed for calibration, repair or replacement without interrupting the process flow
- Integral design prevents accidental breakage
- Can be used with a variety of process conditions in many applications
- Eliminates clogging typically associated with diaphragm seals used in viscous fluid applications which can lead to inaccurate pressure readings
- Assembly flanges ASME B16.1 Class 150, 2" to 20"

| SPECIFICATIONS |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| Seal type | Inline flanged with sleeve diaphragm |  |  |  |  |
| Instruments | Type | Size | Minimum Pressure | Maximum Pressure |  |
|  | Gauges | $2-1 / 2^{\prime \prime}$ to $6^{\prime \prime}$ | 0 psig to 30 psig | 0 psig to 285 psig |  |
|  | Transducers | - | 0 psig to 30 psig | 0 psig to 285 psig |  |
|  | Switches | - | 0 psig to 30 psig | 0 psig to 285 psig |  |
| Upper housing | Type | Non-continuous duty |  |  |  |
|  | Connections | $1 / 4 "$ NPT, 1/2" NPT |  |  |  |
|  | Materials | Polyurethane enamel coated Steel, 316 Stainless Steel |  |  |  |
| Diaphragm | Size | Sleeve style per ring size |  |  |  |
|  | Materials | NBR, FKM, EPDM, PTFE (Other materials available on request) |  |  |  |
| Flange Materials | Connections | Flanged, Class 150, 2" through 20" |  |  |  |
|  | Materials | Polyurethane enamel coated Steel, 316 Stainless Steel |  |  |  |
| Bolting |  | Zinc--plated Steel, optional Stainless Steel |  |  |  |
| Operating temperature | $-30^{\circ} \mathrm{F}$ to $140^{\circ} \mathrm{F}$, based on materials of construction and fill fluid |  |  |  |  |


| ORDERING INFORMATION |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TYPE | 40 Annular Ring | 40BT Bolt-Through Annular Ring |  |  |  |  |  |
| INSTRUMENT CONNECTION SIZES | 02 1/4"NPT | 04 1/2"NPT |  |  |  |  |  |
| HOUSING MATERIALS | C Carbon Steel | S 316 Stainless Steel |  |  |  |  |  |
| DIAPHRAGM MATERIALS | B NBR | V | FKM | T | PTFE | E | EPDM |
| PIPE SIZES | 16 2"Pipe | 40 | 5"Pipe | 80 | 10" Pipe |  | 16" Pipe |
|  | 24 3"Pipe | 48 | 6"Pipe | 96 | 12" Pipe |  | 18" Pipe |
|  | 32 4"Pipe | 64 | 8" Pipe | 112 | 14"Pipe |  | 20" Pipe |
| FLANGE MATERIALS | C Carbon Steel |  | 316 Stainless Steel |  |  |  |  |

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


Type $\qquad$ ... 40 Instrument connection size $\qquad$ $1 / 4^{\prime \prime}$ NPT Housing material $\qquad$ ..Carbon Steel Diaphragm material $\qquad$ arbon Steel Pipe size. $\qquad$ .. 2 " pipe
Flange material ..Carbon Steel


## Type 40



| NOMINAL PIPE SIZE |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2" | 3" | 4" | 5" | $6 "$ | 8" | 10" | 12" | $14 "$ | 16" | 18" |
| A | $\begin{gathered} 0.76^{\prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76 " \\ (19 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 0.76^{\prime \prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76 " \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76 " \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76^{\prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76 " \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76 " \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76^{\prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76^{\prime \prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 0.76^{\prime \prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ |
| B | $\begin{gathered} 2^{2 \prime} \\ (51 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 2^{2 \prime} \\ (51 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 1-1 / 2^{\prime \prime} \\ (38 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 1-1 / 2^{\prime \prime} \\ (38 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 1-1 / 2^{\prime \prime} \\ (38 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 1-1 / 2^{\prime \prime} \\ (38 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 1-1 / 2^{\prime \prime} \\ (38 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 1-3 / 4^{\prime \prime} \\ (45 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 1-3 / 4^{\prime \prime} \\ (45 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 1-3 / 4^{\prime \prime} \\ (45 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 1-3 / 4 " \\ (45 \mathrm{~mm}) \end{gathered}$ |
| C | $\begin{gathered} \hline 4-7 / 32^{\prime \prime} \\ (107 \mathrm{~mm}) \end{gathered}$ | $\begin{aligned} & \hline 5-15 / 32^{\prime \prime} \\ & (139 \mathrm{~mm}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 6-9 / 32 " 1 \\ & (160 \mathrm{~mm}) \end{aligned}$ | $\begin{gathered} \hline 7-9 / 166^{\prime \prime} \\ (192 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 8.7 / 16 " \\ (214 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 10-5 / 88^{\prime \prime} \\ (270 \mathrm{~mm}) \end{gathered}$ | $\begin{aligned} & \hline 12-13 / 16 \text { " } \\ & (325 \mathrm{~mm}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 14-27 / 32 " \\ & (377 \mathrm{~mm}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 17-13 / 64 " \\ & (437 \mathrm{~mm}) \end{aligned}$ | $\begin{aligned} & \hline 19-7 / 32 " \\ & (488 \mathrm{~mm}) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 21-1 / 2^{\prime \prime} \\ (546 \mathrm{~mm}) \\ \hline \end{gathered}$ |
| D | $\begin{gathered} 2^{2 \prime} \\ (51 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 3^{\prime \prime} \\ (76 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 4^{\prime \prime} \\ (102 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 5 " \\ (127 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 6^{\prime \prime} \\ (152 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 8^{\prime \prime} \\ (203 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 10 " \\ (254 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 12 " \\ (305 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 14 " \\ (356 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 16 \mathrm{k} \\ (406 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 18 " \\ (457 \mathrm{~mm}) \\ \hline \end{gathered}$ |
| E | $\begin{gathered} \hline 7.18 " \\ (182 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 8.44 " \\ (214 \mathrm{~mm}) \\ \hline \end{gathered}$ | $\begin{gathered} 9.27 " \\ (235 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 10.53 " \\ (267 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 11.40^{\prime \prime} \\ (289 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 13.60 " \\ (345 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 15.77 " \\ (400 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 17.81 " \\ (452 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 20.17^{\prime \prime} \\ (512 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 22.18^{\prime \prime} \\ (563 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 24.47 " \\ (621 \mathrm{~mm}) \end{gathered}$ |

