## Two Stage/Pressure Reducing

maximum 3500 PSIG in / 0-250 PSIG out spring loaded, hand operated

## 44-3400 Series

## Specifications

- Operating Parameters
pressure rating per criteria of ANSI/ASME B31.3 rated inlet pressure . . . . . . . . . . . . . . . 3500 PSIG
outlet pressure range ... $0-25,0-50,0-100,0-150$ \& 0-250 PSIG
design outlet proof pressure . . $150 \%$ of maximum rated pressure
operating temperature . . . . . . . $-40^{\circ} \mathrm{F}$ to $+165^{\circ} \mathrm{F}$ ( $-40^{\circ} \mathrm{C}$ to $+74^{\circ} \mathrm{C}$ )
flow capacity
$C_{V}=.05$
leakage . . . . . . . . . . . . . . . . internal: bubble-tight external: design to meet $\leq 2 \times 10^{-8} \mathrm{~atm} \mathrm{cc} / \mathrm{sec} \mathrm{He}$ maximum operating torque . . . 10 lbs . - in. ( 1 Nm ) decaying inlet. . . . . . . . 04 change/100 PSIG inlet
- Media Contact Materials
body. . . . . . . 316 Stainless Steel, Brass or Monel bonnets . . . . . . 300 Series Stainless Steel or brass diaphragms . . . . . . 316 Stainless Steel or Elgiloy ${ }^{\circledR}$ seats . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . PTFE
friction sleeve (inner) . . . . . . . . . . . . . . . . . . . PTFE remaining parts. . . 316 SST ( \& brass for brass models)
For other materials and modifications, please consult Tescom.
- Connections . . 1/4" NPT inlet, outlet \& gauge ports
- Cleaning

CGA 4.1 and ASTM G93

- Weight (without gauges) . . . . . . . . 3 lbs. ( 1.35 kg )

Pressure Conversion $14.5 \mathrm{PSIG}=1 \mathrm{bar} 145 \mathrm{PSIG}=1 \mathrm{MPa}$


## Advantages

- Provides a continuous, accurate outlet pressure regardless of inlet pressure fluctuations
- Offers a decaying inlet characteristic of . 04 PSIG per 100 PSIG change in inlet pressure
- Features a unique metal-to-metal diaphragm to body seal
- Diaphragms are convoluted for greater accuracy and sensitivity
- Available in 316 Stainless Steel, brass or Monel

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## Flow Chart



FLOW RATE - SCFM (LPM) NItrogen

## Part Number Selector

example part number:

| 44-34 | 6 |  |  |  |  | 2 | S 2 |  | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BASICSERIES | MATERIALS |  |  |  |  |  |  |  |  |
|  | body | diaphragm | spring | friction sleeve (outer) | remaining parts | OUTLET <br> PRESSURE RANGES | SEAT | OUTLET PORT TYPE | OUTLET <br> PORT SIZE |
| 44-34 | $\begin{array}{\|l} \hline \mathbf{1} \text { - } \text { Brass } \\ \mathbf{6}-316 \text { SST } \\ \mathbf{9} \text { - Monel } \end{array}$ | 316 SST <br> 316 SST <br> Elgiloy ${ }^{\circledR}$ | $\begin{aligned} & 316 \text { SST } \\ & 316 \text { SST } \\ & \text { Elgiloy } \end{aligned}$ | $\begin{aligned} & 316 \text { SST } \\ & 316 \text { SST } \\ & \text { PTFE } \end{aligned}$ | $\begin{aligned} & \text { 316/Brass } \\ & 316 \text { SST } \\ & \text { Monel } \end{aligned}$ | 0-0-25 PSIG <br> 1-0-50 PSIG <br> 2-0-100 PSIG <br> 3-0-150 PSIG <br> 4-0-250 PSIG | $\mathbf{S}$ - PTFE | 2 - NPT | 4-1/4" |

Repair Kits, Accessories \& Modifications may be available for this product. Please contact Tescom for more information.

WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the Tescom Safety, Installation \& Operation Precautions.

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