

## High-Purity Pressure Regulators Stainless Steel Line Models



**Description:** This series of high-purity, single-stage line regulators is recommended for applications where diffusion resistance is required. These regulators are recommended for use on low-pressure pipelines serving gas chromatographs, mass spectrometers, research sampling systems, and semiconductor processing.

The specially designed, convoluted, stainless steel diaphragm provides accurate, stable delivery pressure and is capable of withstanding internal vacuum purging. These units are easily panel-mounted using the optional panel mount nuts with the threaded bonnet. Two 10 x 32 UNF threaded holes in the body allow for bracket or external panel mounting. The optional bonnet vent adaptor allows for the venting of hazardous gases in the event of diaphragm failure.

### Design Features

- **Convoluted Stainless Steel Diaphragms**  
-provide superior leak integrity without contamination from non-metallic liner or seal.
- **Bonnet Vent Ports** *(with optional bonnet vent adaptors)*  
-allow venting of hazardous gases in the event of diaphragm failure.
- **Standard Threaded Bonnet** *(with optional collar mount nuts)*  
-permits panel mounting.
- **High-Flow Capacity**  
-permits excellent pressure control for multi-instrument applications.
- **Ultrasonic Cleaning**  
-allows high-purity gas handling without costly pre-cleaning.

### Specifications

|                                      |                                 |
|--------------------------------------|---------------------------------|
| <b>Maximum Rated Inlet Pressure</b>  | 400 PSIG                        |
| <b>Outlet Pressure Ranges</b>        | 0-25, 0-50, 0-100, 0-250 PSIG   |
| <b>Flow Capacity</b>                 | Cv=0.066                        |
| <b>Ambient Operating Temperature</b> | -40° F to +165° F               |
| <b>Designed Leak Rate</b>            | $2 \times 10^{-8}$ ccs (helium) |
| <b>Weight</b>                        | 2 lbs                           |
| <b>Ports (3)</b>                     | ¼" FNPT                         |
| <b>Inlet</b>                         | ¼" FNPT                         |
| <b>Outlet</b>                        | ¼" FNPT                         |

(continued on next page)



## High-Purity Pressure Regulators

### Stainless Steel Line Models (continued)

| Materials |                     |
|-----------|---------------------|
| Body      | 316 Stainless Steel |
| Bonnet    | 316 Stainless Steel |
| Seat      | Teflon®             |
| Diaphragm | 316 Stainless Steel |
| Gauge     | 2½" Stainless Steel |
| Filter    | 316 Stainless Steel |
| Trim      | 316 Stainless Steel |

| Ordering Information |          |                         |                          |                                   |                             |          |
|----------------------|----------|-------------------------|--------------------------|-----------------------------------|-----------------------------|----------|
| Product Number       | Material | Max Inlet Press. (PSIG) | Max Outlet Press. (PSIG) | Capacity (scfh @ Max Del. Press.) | Delivery Gauge Range (PSIG) | Price    |
| Y11-C441A            | 316 SS   | 400                     | 25                       | 600                               | 30" Hg-0-30                 | \$424.00 |
| Y11-C441B            | 316 SS   | 400                     | 50                       | 1,080                             | 0-60                        | \$424.00 |
| Y11-C441C            | 316 SS   | 400                     | 100                      | 1,140                             | 0-200                       | \$424.00 |
| Y11-C441F            | 316 SS   | 400                     | 250                      | 1,750                             | 0-400                       | \$424.00 |

| Available Options |                              |         |
|-------------------|------------------------------|---------|
| Product Number    | Description                  | Price   |
| Y99-BONNETADP     | Bonnet Vent Adaptor          | \$10.00 |
| Y15-418984        | Wall Mount Bracket           | \$48.00 |
| Y99-26460         | ¼" MNPT x ¼" Swagelok®       | \$17.00 |
| Y99-SMPNLNUT      | Panel Mount Nut (2 required) | \$9.00  |