

HIGH PURITY LOW DELIVERY PRESSURE REGULATORS

Series 3700HP

DESCRIPTION

These regulators were designed to meet the needs of applications requiring reliable low-pressure control while maintaining gas purity. They are available in single and two stage versions to meet most non-corrosive gas applications. The low pressure stage has a large sensitive aluminum-faced neoprene diaphragm to provide delivery pressures as low as 2" of water.



Single Stage Line Regulators for Non-Corrosive Gases

MATERIALS OF CONSTRUCTION

Body & Bonnet: Zinc
 Seat: Nitrile
 Diaphragm: Aluminum-faced natural rubber
 Internal parts: Steel, brass, and zinc

FEATURES

- Extremely low delivery pressures.
- Aluminum faced diaphragm for high purity applications.
- Maximum inlet pressure 250 psig.
- Diaphragm packless valve on outlet is standard.
- $C_v = 0.114$.

The Series 3700HP regulators are available in three delivery pressure ranges; 2-35" of water, and 0.8-2.7 psig and 2.7-5 psig. As a line regulator they have a maximum inlet pressure rating of 250 psig. Inlet and outlet connections are 1/4" NPT female. The Series 3700HP has an aluminum faced natural rubber diaphragm to provide a diffusion resistant metal barrier for high purity gas applications. If you do not desire the outlet valve ad suffix "NV" to the part number.

HOW TO ORDER

Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3701HP	2-25" water	0-30" water	none
3702HP	2.7-5 psig	0-10 psig	none
3703HP	0.8-2.7 psig	0-3 psig	none

Middlesex Gases & Technologies, Inc.
 292 Second Street
 PO Box 490249
 Everett, MA 02149

(800) 649-6704 or (617) 387-5050
www.MiddlesexGases.com
Info@MiddlesexGases.com

Two-stage High Purity Regulators for Low Pressure Delivery

When source gas pressures exceed 250 psig, this hybrid regulator created by coupling a Series 3700HP regulator with a Series 3101 single stage regulator is an ideal choice for such higher pressure applications

MATERIALS OF CONSTRUCTION

First Stage See model 3101 on page 4
 2nd Stage See above

HOW TO ORDER

Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3101HY3701-CGA*	2-25" water	0-30" water	0-4000 psig
3101HY3702-CGA*	2.7-5 psig	0-10 psig	0-4000 psig
3101HY3703-CGA*	0.8-2.7 psig	0-3 psig	0-4000 psig

*Specify CGA connection when ordering. If you do not desire the standard outlet valve add the suffix "NV" to the part number.

