

# REGULATOR

## SERIES HSG-HPS4 HIGH INLET, HIGH DELIVERY PRESSURE PISTON REGULATOR - NON-CORROSIVE SERVICE

### Description

The chromium reliable, high purity piston type regulators, Series HSG-HPS4, are designed for high purity non-corrosive gases applications where precise control of higher delivery pressures are required. Inlet pressures are available up to 6000psig.



HSG-HPS4

### Standard Specification

Maximum inlet pressures	: 6000psig without inlet fitting 5500psig with CGA 680, 347 3000psig with CGA 580, 540, 350
Outlet ranges	
Model HSG-HPS4/750	: 50 - 750 psig
Model HSG-HPS4/1500	: 100 - 1500 psig
Model HSG-HPS4/3000	: 200 - 3000 psig
Outlet port	: 1/4" NPT (F)
Temperature range	: -17°C to +60°C
Flow coefficient	: $C_v = 0.103$
Helium leak rate	: $2 \times 10^{-6}$ scc/sec
Outlet pressure rise	: 750/1500 ranges: < 2.4 / 100 psig inlet decay 3000 range: < 4.8 / 100 psig inlet decay
Weight	: 1.8 kg

### Material Of Construction

Body	: Machined brass
Housing cap	: Machined brass
Piston	: Brass
Nozzle	: PCTEF
Seals	: Viton
Inlet filter	: Bronze
Pressure adjusting spring	: Heat treated spring steel
Adjusting screw	: Machined brass

### Key Features

- Piston type actuation
- 2-1/4" gauges
- Adjustable relief valves on 750 and 1500 range models (not designed to protect downstream apparatus)
- Delrin brushing for smooth adjustment
- Double inlet filters
- Designed for panel mounting

### Typical Applications

- High purity gas handling
- Research sampling systems
- High pressure testing
- High pressure purging
- Accelerated aging