

REGULATOR

SERIES HSG-HPS4

HIGH INLET, HIGH DELIVERY PRESSURE PISTON REGULATOR - NONCORROSIVE SERVICE

Description

The compact 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 with CGA 677 5500psig with CGA 680, 701, 347 4000psig with CGA 577 3000psig with CGA 580, 540, 350, 346
Outlet ranges	
Model HSG-HPS4/1500	: 100 - 1500 psig
Model HSG-HPS4/3000	: 200 - 3000 psig
Model HSG-HPS4/4500	: 300 - 4500 psig
Outlet port	: 1/4" NPT (F)
Temperature range	: -17°C to +60°C
Flow coefficient	: $C_v = 0.103$
Helium leak rate	: 1×10^{-8} scc/sec
Outlet pressure rise	: 750/1500 ranges, < 2.4 per 100 psig 3000 range, < 4.8 per 100 psig
Weight	: 1820g

Material Of Construction

Body	: Machined brass
Housing cap	: Machined brass
Piston	: Brass
Seat	: PCTFE™
Seals	: Viton™
Inlet filter	: Bronze
Gauge	: Brass
Adjusting screw	: Machined brass

Key Features

- Piston type actuation
- 2.5" gauges
- Cartridge type seat assembly with PCTFE™ seat
- Adjustable relief valves on 750 and 1500 range models (not designed to protect downstream apparatus)
- Delrin cap brushing for smooth adjustment
- Hydrogen models have ventable relief valves
- Double inlet filtering
- All HSG-HPS4 series regulator models may be panel mounted

Typical Applications

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