

REGULATOR

SERIES HSG-HPT500 CHROME-PLATED DUAL STAGE HIGH PURITY REGULATOR - NON-CORROSIVE SERVICE

Description

The chromium plated brass, diaphragm type, high purity dual stage regulators, Series HSG-HPT500, are designed to control high purity, non-corrosive, pure gases and mixtures in applications where constant delivery pressure regardless of fluctuations in tank pressure are required. These regulators are highly recommended for non-flammable and non-corrosive gases applications.



HSG-HPT500

Standard Specification

Maximum inlet pressure	: 3000 psig
Outlet ranges	
Model HSG-HPT500/40	: 0 - 40 psig
Model HSG-HPT500/80	: 0 - 80 psig
Model HSG-HPT500/125	: 0 - 125 psig
Model HSG-HPT500/500	: 0 - 500 psig
Outlet port	: 1/4" NPT (F)
Temperature range	: -40°C to +60°C
Flow coefficient	: Cv = 0.111
Helium leak rate	: 10^{-7} scc/sec
Outlet pressure rise	: Less than 0.1 psig per 100 psig inlet decay
Weight	: 2kg

Material Of Construction

Body	: Chrome-plated brass bar stock
Spring housing cap	: Chrome-plated brass
Diaphragm	: 316L stainless steel
Nozzle	: Brass bar stock
Seat	: PCTFE
Seals	: Teflon
Poppet	: Stainless steel
Inboard Filter	: 10 micron sintered stainless steel
Seat return spring	: 316 Stainless steel
Pressure adjusting spring	: Heat-treated spring steel
Adjusting Knob	: Acrylonitrile Butadiene Styrene

Key Features

- Flow straightening technology
- 1.6" Stainless steel diaphragm for minimal footprint
- 2" Dual scale gauges
- Cartridge type seat assembly with 10 micron inboard filter
- Resistant to inboard diffusion of atmospheric contaminants
- Able to with stand internal vacuums
- Threaded housing cap for panel mounting

Typical Applications

- High-purity gas handling
- Gas chromatography
- Zero gases, span gases and calibration mixtures
- Research sampling systems
- Laser gas systems
- Process analyzers