

REGULATOR

SERIES HSG-HPT270

CHROME - PLATED DUAL STAGE HIGH PURITY REGULATOR - NONCORROSIVE SERVICE

Description

The chromium plated brass, diaphragm type, high purity dual stage regulators, Series HSG-HPT270, 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-HPT270

Standard Specification

Maximum inlet pressure	: 3000 psig
Outlet ranges	
Model HSG-HPT270/40	: 2 - 40 psig
Model HSG-HPT270/80	: 4 - 80 psig
Model HSG-HPT270/125	: 5 - 125 psig
Outlet port	: 1/4" NPT (F)
Temperature range	: -17°C to +60°C
Flow coefficient	: $C_v = 0.04$
Helium leak rate	: 1×10^{-8} scc/sec
Outlet pressure rise	: Less than 0.1 psig per 100 psig inlet decay

Material Of Construction

Body	: Chrome-plated brass
Spring housing cap	: Chrome-plated brass
Diaphragm	: 301 stainless steel
Nozzle	: Brass
Seat	: 1 st stage PCTFE™ 2 nd stage Viton™
Seals	: Viton™
Filter	: Cartridge - Brass Inlet - 10 micron rating stainless steel
Seat return spring	: Stainless steel
Pressure adjusting spring	: Heat treated spring steel
Adjusting Knob	: Acrylonitrile Butadiene Styrene

Key Features

- 1.5" Stainless steel diaphragm on first stage
- 2.75" Stainless steel diaphragm on second stage
- 2.5" Dual scale gauges
- Cartridge type seat assembly for first stage; Stem type for second stage
- Chrome plated body, housing cap, fittings and gauges
- Diffusion resistant outlet valve
- Panel mount kit available

Typical Applications

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