

REGULATOR

SERIES HSG-SL20

LABLINE HIGH PURITY LINE REGULATOR - NONCORROSIVE SERVICE

Description

The chromium plated brass, bellow type, high purity single stage line regulators, Series HSG-SL20, are designed for very sensitive secondary pressure control of non-corrosive, high purity (up to grade 6N), medium pressure supply source. These regulators are recommended for critical high purity inline application or as a point of use pressure control in high purity gas distribution system.



HSG-SL20

Standard Specification

Maximum inlet pressure : 290 psig (20 bar)

Outlet ranges

Model HSG-SL20/1 : 0.7 - 14.5 psig (0.05 - 1 bar)

Model HSG-SL20/3 : 1.5 - 44 psig (0.1 - 3 bar)

Model HSG-SL20/8 : 7.2 - 116 psig (0.5 - 8 bar)

Inlet and outlet ports : 1/4" NPT (F)

Temperature range : -20°C to +50°C

Nominal flow : 2 Nm³/h (N₂) for HSG-SL20/1
: 2.5 Nm³/h (N₂) for HSG-SL20/3
: 3 Nm³/h (N₂) for HSG-SL20/8

Helium leak rate : 10⁻⁸ mbar x l/sec

Weight : 0.5 kg

Material Of Construction

Body : Chrome plated brass

Value Seal : EPDM

O-ring : EPDM

Bellow : Bronze

Key Features

- Single stage, bellow type with chromium plated brass body
- Low torque and multiple turn handwheel for sensitive outlet pressure control
- Good accuracy and sensitivity
- Excellent performance characteristics
- Ultra clean, decontaminated internals through multistep cleaning process
- High leak tightness integrity prevention back diffusion of atmospheric contamination
- Multiple mounting possibilities (in line or 90)
- Two inlet connections, two outlet connections
- Compact light weight design

Typical Applications

- Point of use control in piping system
- Gas and liquid chromatography
- High-purity process gases handling
- Research Sampling Systems
- Laser gas systems
- Process analyzers