

HIGH FLOW – HIGH PURITY REGULATOR

Series 3831H

DESCRIPTION

The 3831H series regulators are designed for high flow applications involving high purity gases. The series features a Cv of 0.55 and excellent regulation.

FEATURES

- Capable of high flows with only a small pressure drop.
- High purity metal diaphragm construction.
- All parts ultrasonically cleaned prior to assembly.
- Excellent pressure regulation – 1.6 psi/100 psi.
- Encapsulated seat with 10 micron filter.

APPLICATIONS

The 3831H series regulators are ideal as manifold, laser assist gas, or pipeline regulators for high flow systems of high purity or industrial gases.

SPECIFICATIONS

	3831H	3831HL
Max. Inlet Pressure:	3000 psig*	3000 psig*
Operating Temp. Range:	-40°F to +165°	-40°F to +165°
Flow Coefficient(Cv):	0.55	0.55
Inlet and Outlet:	1/2" NPT female	1/2" NPT female



MATERIALS OF CONSTRUCTION

	3831H	3831HL
Body:	brass barstock	brass barstock
Bonnet:	forged brass	forged brass
Diaphragm:	302 SS**	302 SS**
Seat:	PTFE Teflon	PTFE Teflon
Seals:	PTFE Teflon	PTFE Teflon
Nozzle:	brass	brass

HOW TO ORDER

Model	Del. Press psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3831H-015	0-15	0-30	0-600
3831H-050	0-50	0-100	0-4000
3831H-125	0-125	0-200	0-4000
3831H-250	0-250	0-400	0-4000
3831H-500	0-500	0-1000	0-4000
3831HL-015	0-15	0-30	none
3831HL-050	0-50	0-100	none
3831HL-125	0-125	0-200	none
3831HL-250	0-250	0-400	none
3831HL-500	0-500	0-600	none

*500 psig on the 0-15 psig models.

** 0-15 psig models have a neoprene diaphragm and seat.