

# HIGH FLOW – HIGH PURITY REGULATOR

## Series 3831H

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### 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

	<b>3831H</b>	<b>3831HL</b>
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

	<b>3831H</b>	<b>3831HL</b>
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.