

# R Series Regulators

## HPC Single and Two Stage Regulators



R21 \*



R31 \*

Calgaz offers a choice of standard high pressure regulators for use with our High Pressure Cylinders (HPC's)

The R21 is a single stage, high purity regulator, designed for applications where low-pressure is required. The R31 is a dual-stage, high purity style regulator, designed for applications where a consistent outlet pressure and flow is desired. Both R21 and R31 are available in nickel-plated brass and stainless steel.

All stocked R21 and R31 regulators are supplied with 1/4" NPT Female inlet and outlet fittings. Calgaz can supply connectors to fit British Standard (BS), DIN and CGA cylinders. We can also adapt R21 and R31 to fit non-refillable cylinders. All regulators carry a 24 month warranty and can often be shipped to you the next working day.

For more information or requests regarding other regulators for HPC applications please contact us.

*\* These photos are for illustration only. The actual supply of products may differ.*

## Features

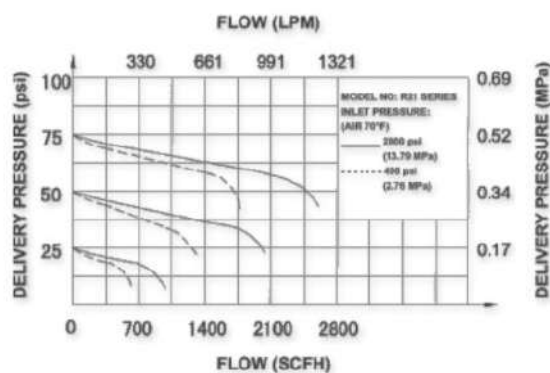
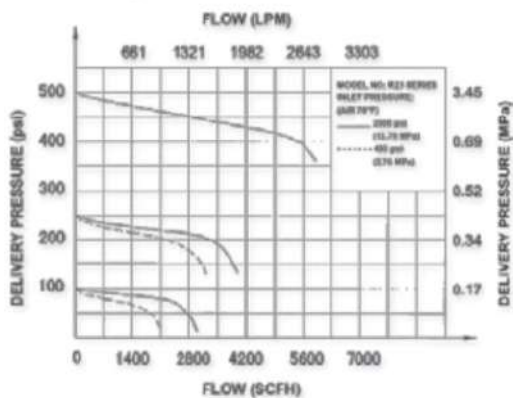
	Configuration	Inlet Pressure	Outlet Pressure	Body Port Size	Material	Stability	Weight
R21B	Single Stage	200bar (2900psi)	3.5 or 7 bar	1/4" NPT(F)	NI-Brass	Non reactive Gases	1.8 kg (4 lbs)
R21S	Single Stage	200bar (2900psi)	3.5 or 7 bar	1/4" NPT(F)	Stainless Steel	Reactive Gases	1.8 kg (4 lbs)
R31B	Two Stage	200bar (2900psi)	3.5 or 7 bar	1/4" NPT(F)	NI-Brass	Non-Reactive Gases	2.1 kg (4.6lbs)
R31S	Two Stage	200bar (2900psi)	3.5 or 7 bar	1/4" NPT(F)	Stainless Steel	Reactive Gases	2.1 kg (4.6lbs)

**Temperature Range:** 40°F to 165°F (-40°C to 74°C)

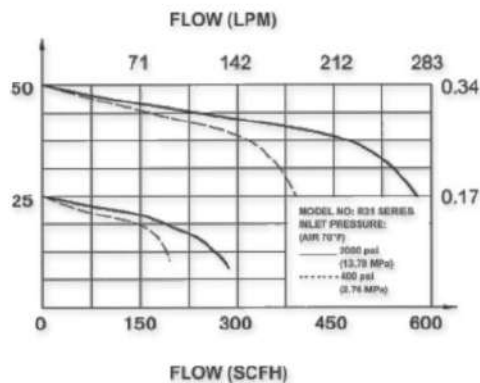
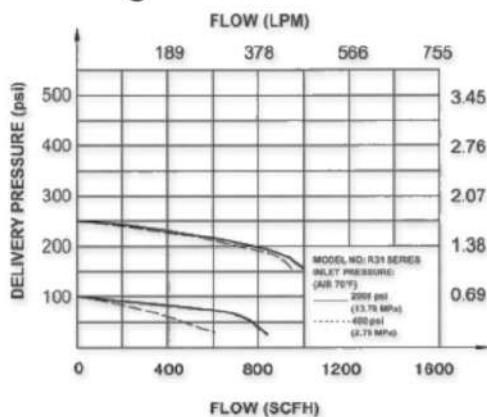
**Temperature Range** 2 x 10 atm.cc/sec He

**Connectors** 1/4" NPT(F) to available with British Standard (BS), US CGA or DIN

### Flow Diagrams **R21**



### Flow Diagrams **R31**



*\* Not available from our Cambridge, MD USA facility*

# Stem Connectors

Range of US, UK and European adaptors

## Commonly used with Reactive gases



CGA 330



CGA 580



BS 15 \*

## Commonly used with Non Reactive gases



CGA 350



DIN 10 \*



BS 3 \*



BS 4 \*

Calgaz is the world's leading manufacturer of calibration gases and equipment. We are proud to offer the most comprehensive range of specialist regulators and associated equipment for non-refillable (NRC) and high pressure (HPC) refillable gas cylinders.

As part of our range we can supply a variety of cylinder valve connectors (Stem connectors). All the connectors supplied conform to either British (BS), US (CGA) or European (DIN) standards. Calgaz is able to supply

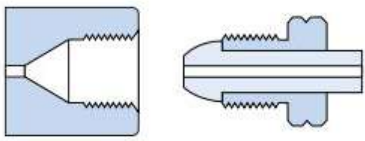
- BS3, BS4, and BS15
- CGA330, CGA350 and CGA580
- DIN 10

All connectors are approved for a working pressure up to 200 Bar and can be supplied in Brass or Stainless Steel and are generally ¼" NPT inlet with a range of outlets to meet your requirements.

All stem connectors carry a 24 month warranty and we recommend replacing them after two years of service and can often be shipped to you the next working day.

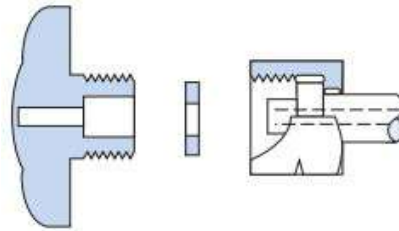
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# Stem Connectors

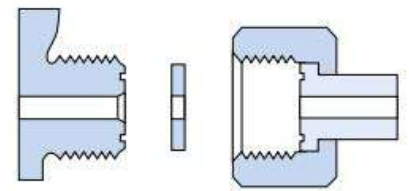


BS 3

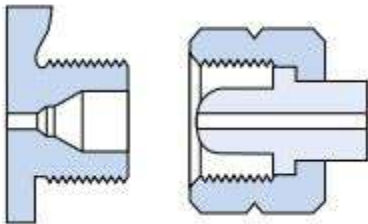
BS 4



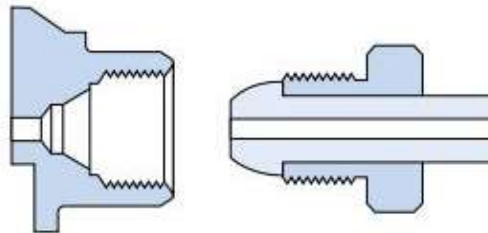
BS 15



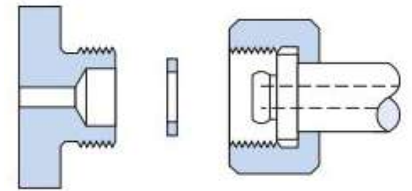
CGA 330



CGA 350



CGA 580



DIN 10