

SPECIFICATIONS



OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
3500 psig / 241 bar

Design Proof Pressure
150% of maximum rated

Leak Rate
Internal: Bubble-tight

External: Designed to meet
 $\leq 2 \times 10^{-8}$ atm cc/sec He

Operating Temperature
-40°F to 165°F / -40°C to 74°C

Flow Capacity
Cv = 0.06

MEDIA CONTACT MATERIALS

Body 316 Stainless Steel or Brass	Friction Sleeve Inner: PTFE Outer: 316 Stainless Steel
Bonnet PCTFE	Spring 316 Stainless Steel
Valve Seat PCTFE	Remaining Parts 316 Stainless Steel (and Brass for Brass bodies)
Diaphragm PCTFE	

OTHERS

Gauges (3 standard) 316 Stainless Steel gauges with Stainless Steel regulators, Brass gauges with Brass regulators	Cleaning CGA 4.1 and ASTM G93 Weight 5 lbs / 2.3 kg
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Connections
1/4" Female NPTF

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The CS-2200 Series is a complete high purity changeover system which combines the changeover regulator and a line regulator into a compact wall mount system for specialty, corrosive, and pyrophoric gases.

Diffusion-resistant metal diaphragm seal ensures gas purity and integrity. It provides continuous low flow of gas from two pressure sources.

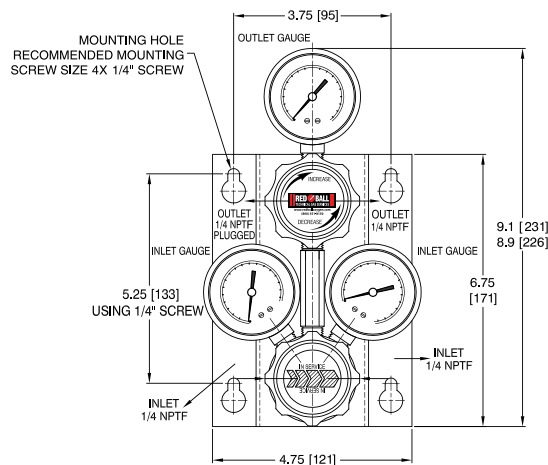
APPLICATIONS

- CO2 for tissue and cell culture incubators supply
- Analyzer carrier gases
- Laser cutting assist gas

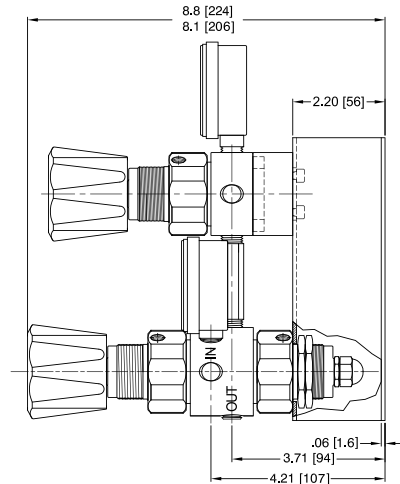
FEATURES AND BENEFITS

- Maximum inlet pressure: 3500 psig / 241 bar
- Four maximum delivery pressures from 25 to 150 psig / 1.7 to 10.3 bar
- Designed to provide a continuous flow of gas for applications requiring stored gas supplies
- Available in 316 Stainless Steel or Brass
- Mounting bracket is standard
- Two 3 ft. 316 Stainless steel armored pigtails with a 316L stainless steel inner core, check valve/CGA
- Multiple CGA connections available: 350, 580 and 590

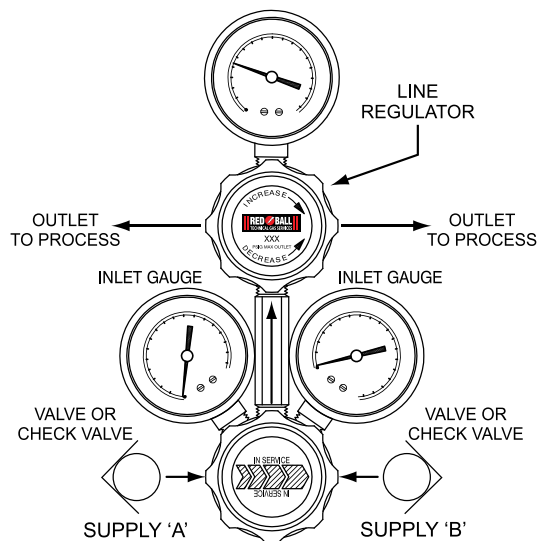
CS2200 SERIES CHANGEOVER SYSTEMS (LOW FLOW)



All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets



BASIC FUNCTIONAL DESCRIPTION CHANGEOVER SYSTEMS



SINGLE BODY CHANGEOVER SYSTEM

When primary supply to the changeover regulator (supply 'A') is consumed, the secondary supply (supply 'B') feeds the line regulator and/or process. The line regulator supplies media to the process at the precise pressure required. By turning the changeover regulator handknob clockwise, supply 'A' can then be replenished. When supply 'B' is depleted, supply 'A' will then begin to feed the line regulator and/or process. With a counterclockwise turn of the changeover regulator handknob, supply 'B' can be replenished.

CS-2200 SERIES CHANGEOVER SYSTEM PART NUMBER SELECTOR

Example for selecting a part number:

CS-22 6 3 - 2 4 1 -064

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES	INLET & OUTLET PORT TYPE	INLET & OUTLET PORT SIZE	MAXIMUM INLET PRESSURE
CS-22	P - Nickel -Plated Brass	0 - 0-25 psig / 0-1.7 bar	2 - NPTF	4 - 1/4"	1 - 3500 psig / 241 bar (w/gauges)
	6 - 316 Stainless Steel	1 - 0-50 psig / 0-3.4 bar			
		2 - 0-100 psig / 0-6.9 bar			
		3 - 0-150 psig / 0-10.3 bar			2 - 3500 psig / 241 bar (no gauges)