

120 SERIES

GENERAL PURPOSE TWO STAGE CYLINDER REGULATORS



Sure-Seat™
technology for maximum life and gas purity

The general purpose two stage regulators are recommended for control of inert and non-corrosive pure gases in laboratories, general plant and maintenance shops where constant delivery pressures are required. These regulators are not recommended for applications where inboard diffusion of air or outgassing of elastomeric components would adversely affect the work being done. A preset safety relief valve vents to atmosphere, which makes this regulator suitable for only nonhazardous gases.

DESIGN FEATURES

- Filtered seat for added gas stream purity, and extended service life
- Large 1 - 3/4" diaphragm for precise control of pressure
- Large 2 - 1/2" easy to read single scale gauges
- Built in capturable preset safety relief valve
- Rugged brass construction with bar stock body
- Plated body, bonnet, and gauges for superior protection

SPECIFICATIONS

Maximum Inlet Pressure 3000 PSIG
 Outlet Pressure Ranges 0-15, 0-50, 0-100,
 0-250 PSIG
 Temp. Operating Range. -40°F to +165°F
 Ports (4) 1/4" FNPT
 Outlet 1/4" MNPT
 Outlet Valve 1/4" needle valve
 Design Leak Rate Bubble tight
 (1 x 10⁻⁵ ccs Helium)
 Flow Coefficient Cv. 0.20
 Inlet Decay Rate042/100 PSIG
 Weight. 5 lbs.

MATERIALS OF CONSTRUCTION

Body. Electroless Nickel Plated
 Brass Bar Stock
 Bonnet 1st Stage Electroless Nickel Plated
 Brass Bar Stock
 Bonnet 2nd Stage Electroless Nickel Plated
 Brass Forging
 Seat Teflon®
 Seat Retainer. Brass
 Diaphragm Neoprene
 Gauge 2-1/2" Chrome Plated
 Filters (2). 316 Stainless Steel/Brass
 Valve Stem. 316 Stainless Steel
 Valve Spring. 316 Stainless Steel
 Outlet Valve. Chrome Plated Brass

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OPTION 1:	OPTION 2:	OPTION 3:
MODEL SERIES & OUTLET PRESSURE	OUTLET FITTINGS	CGA INLET FITTINGS
120 15 PSIG	00 1/4" FNPT	00 1/4" FNPT
121 50 PSIG	20 Chrome Needle Valve with male 1/4" NPT outlet	01 CGA 300*
122 100 PSIG	40 Chrome Needle Valve with female 1/4" NPT outlet	02 CGA 320
123 250 PSIG	41 Chrome Needle Valve with 1/8" brass tube fitting	03 CGA 326
	42 Chrome Needle Valve with 1/8" stainless steel tube fitting	05 CGA 346
	82 Chrome "B" fitting (9/16" - 18RH)	06 CGA 350
	84 Nickel Fuel Hose Connection (9/16" - 18LH)	07 CGA 510
		08 CGA 540
		09 CGA 580
		10 CGA 590

* Only available and used with #120 main body

To order additional inlet/outlet and accessories options which are available and sold separately; please see page 38-39 of this catalog.

ORDERING INFORMATION FOR 120 SERIES REGULATORS

Product Number	Max. Inlet Pressure PSIG	Max. Outlet Pressure PSIG	Inlet Gauge		Delivery Gauge	
			Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG
120	3000	15	0-3000	100	0-30	1
121	3000	50	0-3000	100	0-60	2
122	3000	100	0-3000	100	0-200	5
123	3000	250	0-3000	100	0-400	10