

High-Purity Back-Pressure

High-Purity

PRESSURE REGULATORS

Description: These back-pressure regulators control the inlet pressure rather than outlet pressure. They are very similar to relief valves in operation and are actually used as relief valves in many applications requiring high sensitivity and close tolerances on crack/reseat pressure relationships. This compact series of regulators is hand-adjustable and spring-loaded. A diaphragm sensor provides precise pressure control.



Design Features

Convuluted Stainless Steel Diaphragms

provide superior leak integrity without contamination from a non-metallic liner or seal.

Bonnet Vent Ports (with optional bonnet vent adaptors)

allow venting of hazardous gases in the event of diaphragm failure.

Standard Threaded Bonnet (with optional collar-mount nuts) for easy panel mounting.

Specifications	
Maximum Rated Inlet Pressure	250 psig
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 psig
Flow Capacity	Cv=0.08
Ambient Operating Temperature	-65° F to +165° F
Designed Leak Rate	1 x10 ⁻⁴ ccs (helium)
Weight	2 lbs
Ports (2)	1/4" FNPT

Materials	
Body	Nickel-Plated Brass or 316L Stainless Steel
Bonnet	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	316 Stainless Steel

Ordering Information		
Product Number	Control Pressure Range (psig)	Material
Y11-BP125	0-25	Brass
Y11-BP150	0-50	Brass
Y11-BP1250	0-250	Brass
Y11-BP425	0-25	316 SS
Y11-BP450	0-50	316 SS
Y11-BP4100	0-100	316 SS
Y11-BP4250	0-250	316 SS

Available Options	
Product Number	Description
Y99-BONNET ADP	Bonnet Vent Adaptor
Y99-CHROMNUT	Panel Mounting Nut (2 required)
Y99-26460	1/4" MNPT x 1/4" Compression