- Control sensitivity of .125" (.005 PSIG) (.32 cm) water column allows use in precision processes
- Pressure balanced supply valve prevents supply pressure changes from affecting the setpoint
- Optional check valve permits dumping of downstream pressure when supply is opened to atmosphere
- Separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- An aspirator tube compensates downstream pressure droop under flow conditions

P3RA102 Series

Operating information

Supply pressure:	500 PSIG (35 bar), (3500 kPa) max
Ambient temperature:	-40°F to 200°F (-40°C to 93°C)
Sensitivity:	.125" (.005 PSIG) (.32 cm) water column
Flow capacity:	40 SCFM (68 m³/HR) @ 100 PSIG, (7.0 bar), (700 kPa) supply and 20 PSIG, (1.5 bar), (150 kPa) setpoint
Exhaust capacity:	5.5 SCFM (9.35 m3/HR) where downstream pressure is 5 PSIG, (.35 bar), (35 kPa) above 20 PSIG, (1.5 bar), (150 kPa) setpoint
Supply pressure effect:	Less than 0.1 PSIG, (.007 bar), (.7 kPa) for 100 PSIG, (7.0 bar), (700 kPa) change in supply pressure
Hazardous locations:	Acceptable for use in zones 1 and 2 for gas atmosphere: Groups IIA and IIB and zones 21 and 22 for dust atmospheres

For technical information see CD

P3RA102
Standard High Precision Regulator

Port size	Spring	Part number
1/4"	0.5 to 30 PSIG	**P3RA10232**
1/4"	1 to 60 PSIG	**P3RA10242**
1/4"	2 to 150 PSIG	**P3RA10262**

Service kits

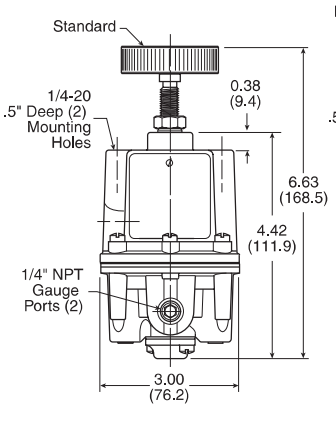
Service kit	0 to 200 PSIG, relieving	**PS12125-1**
	0 to 200 PSIG, non-relieving	**PS12125-4**
Tamper resistant kit		**PS12165**
Mounting bracket kit, zinc plated steel		**PS09921**

Material specifications

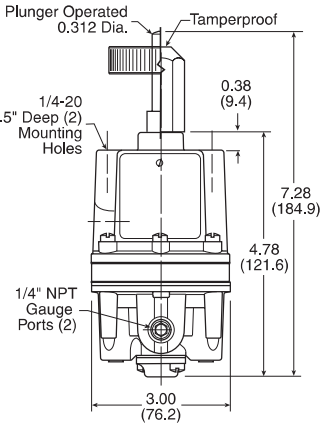
Body and housing		Aluminum
Diaphragms	(standard unit only)	Buna N on dacron
Trim		Brass, zinc plated steel

⚠ WARNING
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

☐ Most popular.

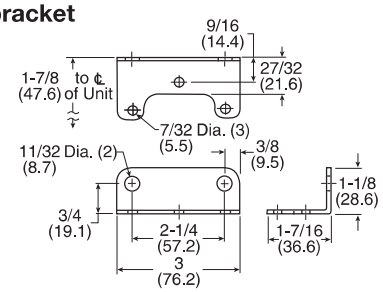


2 thru 200 PSIG Range



300 & 400 PSIG Range

Mounting bracket



CAUTION:
REGULATOR PRESSURE ADJUSTMENT –
The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

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