

Type 700Precision Air Pressure Regulator

For applications that require accurate pressure control

The Type 700 is designed to provide high flow capacity and accurate process control. A poppet valve balanced by a rolling diaphragm insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions through the use of an aspirator tube which adjusts the air supply in accordance with the flow velocity.

Features

- 1/4", 3/8", 1/2" NPT/BSP Porting
- High Flow Capacity
 Allows flows up to 80 scfm (2,264 Nl/min)
- Sensitive

Senses output pressure deviations to within 1/8 inch water column pressure

Stable Output

Dampening action of aspirator tube makes this regulator insensitive to changes in flow

On-line Maintenance

Can be serviced without removal from air line

Specifications

Flow Capacity	See performance curves	
Exhaust Capacity	4 scfm (120 Nl/min) [downstream pressure 5 psi (.35 BAR) above set pressure]	
Sensitivity	1/8" (3.2 mm) water	
Effect of Supply Pressure Variation on Output	Less than 0.1 psi (.007 BAR) for 100 psi (6.7 BAR) change	
Air Consumption, Maximum	Steady State: From 1.0 to 12.5 scfh (30 to 375 NI/hr), depending on output pressure range	
Supply Pressure	250 psig (17.5 BAR) Maximum	
Operating Temperature	-40°F to 160°F (-40°C to 71°C)	
Weight	1 lb, 10 oz (.74 kg)	
Mounting	Pipe, panel, or bracket	
Port Sizes	Inlet/Outlet: 1/4", 3/8" or 1/2" NPT/BSP Gauge (2): 1/4" NPT/BSP	
Output Pressure Ranges	0-2 psi (0-0.15 BAR), 0-15 psi (0-1.0 BAR) 0-30 psi (0-2.0 BAR), 0-60 psi (0-4.0 BAR) 0-100 psi (0-7.0 BAR), 0-150 psi (0-10 BAR)	

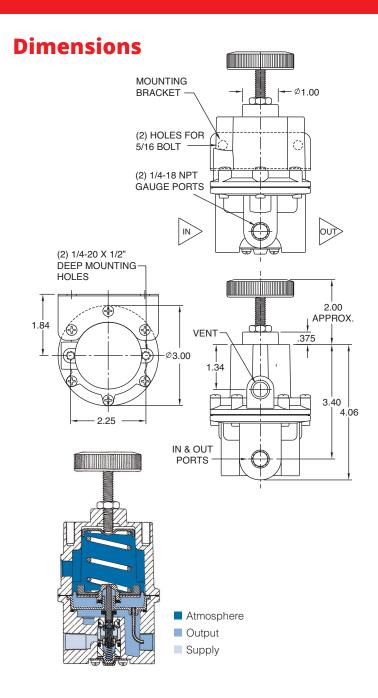
Materials of Construction

Body	Diecast aluminum alloy	
Internal Components	Stainless steel, brass, plated steel, acetal	
Diaphragm	Buna-N elastomer, polyester fabric	
Knob	Phenolic plastic (Ex) (E	



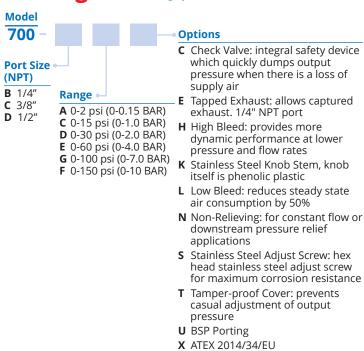
Actual size

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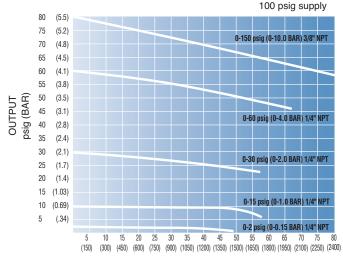
Accessories

Mounting Bracket (zinc plated steel): P/N 446-707-025

Gauges: 1/4" NPT back mount, 2" face, dual scale

Range PSI (BAR)	Part Number
0-15 (0-1.0)	446-725-003
0-30 (0-2.0)	446-725-004
0-60 (0-4.0)	446-725-001
0-160 (0-11)	446-725-002

Flow Characteristics



FLOW, scfm (NI/min)

