

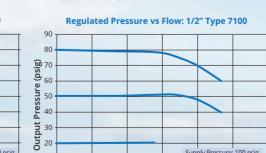
## **Type 7100** Precision Air Pressure Regulator

Superior accuracy and stability with high forward and reverse flow capacity

The Type 7100 is a high precision, multi-stage pressure regulator offering fine adjustment and maximum stability under variable operating conditions. The Type 7100 combines the proven and reliable technology of the ControlAir Type 100 with the high forward and reverse flow of the Type 6100, 1:1 Relay Volume Booster. A highly sensitive capsule controls the pilot pressure which offers crisp and accurate adjustment, superior to conventional spring operated regulators.

### Features

- 1/4", 1/2" or 3/4" NPT Porting
- Two 1/4" NPT Gauge Ports
- Adjustment Control Standard tension nut prevents inadvertent pressure adjustment.
- High Flow Capacity See flow curves.
- Superior Sensitivity Senses output pressure deviations to within 1/4 inch water column pressure.
- Stable output Isolated control chamber prevents output variation and vibration during flow conditions.
- Balanced Supply Valve Virtually eliminates output pressure changes due to supply pressure variations.



10

0+

50

100

150

Flow Rate (scfm)

Supply Pressure: 100 psig Max. Flow: 235 scfm Max. Cv: 4.3

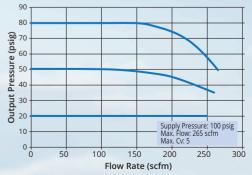
250

300

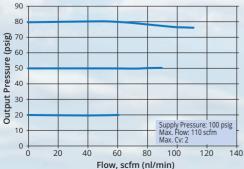
200

#### Regulated Pressure vs Flow: 3/4" Type 7100

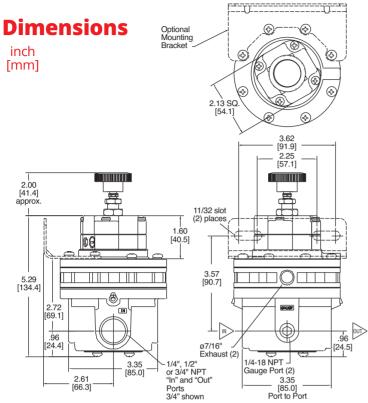
GAUGE



#### Regulated Pressure vs Flow: 1/4" Type 7100



# **Type 7100** Precision Air Pressure Regulator



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**Warranty** ControlAir, LLC products are warranted to be free from defects in materials and workmanship for a period of eighteen months from the date of sale, provided said products are used according to ControlAir, Inc. recommended usages. ControlAir, LLC's liability is limited to the repair, purchase price refund, or replacement in kind, at ControlAir, LLC's sole option, of any products proved defective. ControlAir, LLC reserves the right to discontinue manufacture of any products or change products materials, designs or specifications without notice. Note: ControlAir does not assume responsibility for the selection, use, or maintenance of any product. Responsibility for the proper selection, use, and maintenance of any ControlAir product remains solely with the purchaser and end user. Drawing downloads available at www.controlair.com

## Specifications

250 psig (17.0	BAR) maximum
6 scfh (3 Nl/m	iin) maximum
-20 to 160°F (	-29 to 71 °C)
<b>Port Forw</b> 3/4" 5.0	
1/2" 4.5 1/4" 2.0	
1/2" 75 s	cfm (2,264 NL/min) cfm (2,123 NL/min) cfm (991 NL/min)
Less than 1/4	inch (6.3 mm) water
.05 psig (3.4m 100 psig (6.9 l	
Pipe, panel or	bracket
1/4", 1/2", or 3	3/4" NPT
ø7/16" or 1/4	" NPT option
1/4" NPT	
2.5 lbs (1.13 k	g)
	6 scfh (3 Nl/m -20 to 160°F ( Port Forw 3/4" 5.0 1/2" 4.5 1/4" 2.1 3/4" 80 sr 1/2" 75 sr 1/4" 35 sr Less than 1/4 .05 psig (3.4m 100 psig (6.9 Pipe, panel or 1/4", 1/2", or 3 ø7/16" or 1/4" 1/4" NPT

## Materials

Housing	Diecast aluminum alloy and zinc alloy
Bolting	Zinc Plated Steel
Knob	Phenolic plastic
Internal components	Stainless steel, plated steel, brass, aluminum
Elastomers	Nitrile

### Ordering Use this coding system to order

Model 7100	-	-• Options
Port Siz (NPT) B 1/4" D 1/2" E 3/4"	<b>Range</b> A 2-40 psig (0.14-2.7 BAR B 2-60 psig (0.14-4.1 BAR	

### Accessories

Mounting Bracket (zinc plated steel): P/N 449-542-045 1/4" NPT Exhaust Screen/Muffler Fitting: Plated Steel: P/N 445-761-008

(Unit must have 'E' tapped exhaust option)



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