

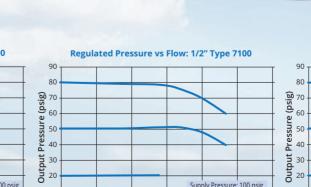
Type 7100 Precision Air Pressure Regulator

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.



150

Flow Rate (scfm)

10

0

ò

50

100

oly Pressure: 100 psig Flow: 235 scfm

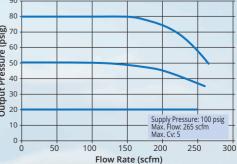
250

300

200

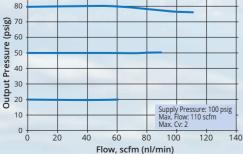
Regulated Pressure vs Flow: 3/4" Type 7100

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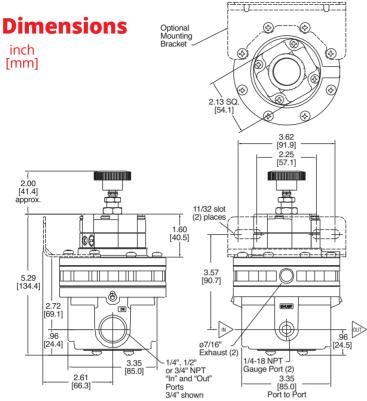


Regulated Pressure vs Flow: 1/4" Type 7100

90



Type 7100 Precision Air Pressure Regulator



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Specifications

Supply Pressure	250 psig (17.0 BAR) maximum
Air Consumption	14 scfh (6.6 Nl/min)
Temperature Limits	-20 to 160°F (-29 to 71°C)
Maximum Flow Coefficients (Cv)	Port Forward Exhaust 3/4" 5.0 3.5 1/2" 4.5 3.5 1/4" 2.0 2.5
Exhaust Capacity	3/4" 80 scfm (2,264 NL/min) 1/2" 75 scfm (2,123 NL/min) 1/4" 35 scfm (991 NL/min)
Sensitivity	Less than 1/4 inch (6.3 mm) water
Effect of Supply Pressure Variation on Output	.05 psig (3.4m BAR) for a 100 psig (6.9 BAR) change
Mounting	Pipe, panel or bracket
Supply/Output Port	1/4", 1/2", or 3/4" NPT
Exhaust Port (2)	ø7/16" or 1/4" NPT option
Gauge Port (2)	1/4" NPT
Weight	2.5 lbs (1.13 kg)

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 Size (NPT)	e	E Tapped Exhaust: allows captured exhaust from the (2) 1/4" NPT spacer ports and barbed bleed screw
D 1/2" A E 3/4" B	Range	T Tamper-proof Cover: prevents
	A 2-40 psig (0.14-2.7 B 2-60 psig (0.14-4.1 C 2-120 psig (0.14-8.	BAR) casual adjustment of output

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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