



Type 7150

Precision Air Relay

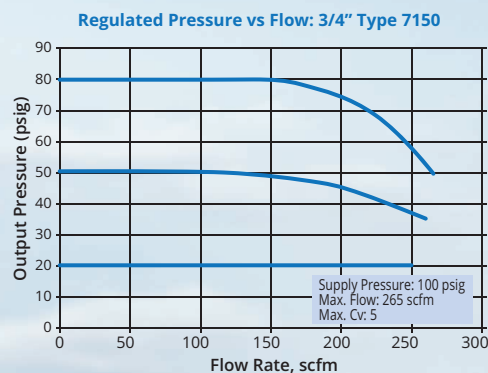
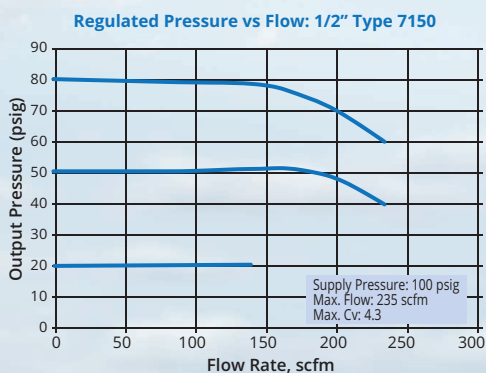
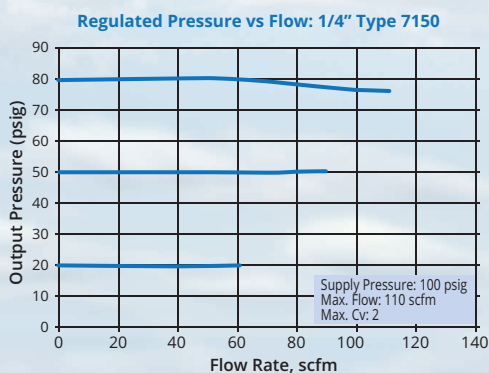
Superior accuracy and stability with high forward and reverse flow capacity

The Type 7150 is a high precision, multi-stage pressure relay offering fine adjustment and maximum stability under variable operating conditions. The Type 7150 combines the proven and reliable technology of the ControlAir Type 200 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.

Relief capacity up to 80 scfm combined with dynamic sensitivity makes the Type 7150 superior for pneumatic counter balance applications.

Features

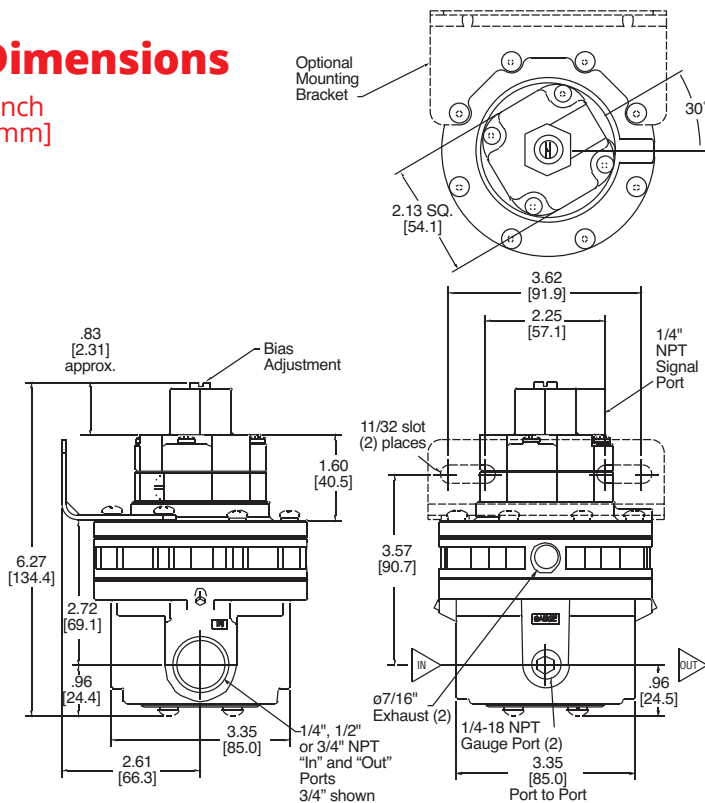
- **1/4", 1/2" or 3/4" NPT Porting**
- **High Flow Capacity**
See flow curves.
- **High Relief Capacity**
Allows relief flow up to 80 scfm.
- **Superior Sensitivity**
Senses output pressure deviations to within 1/4 inch water column pressure.
- **Stable Output**
Isolated control chamber prevents output variation and vibration during flow conditions.
- **Balanced Supply Valve**
Virtually eliminates output pressure changes due to supply pressure variations.
- **Positive and Negative Biasing Capability**
- **Two 1/4" NPT Gauge Ports**



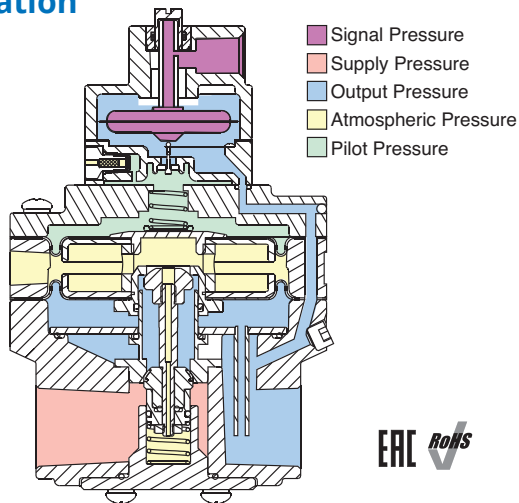
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Dimensions

inch
[mm]



Principles of Operation



EAC RoHS

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Specifications

Supply Pressure	250 psig (17.0 BAR) maximum		
Signal Pressure	120 psig (8 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)	
Bleed Rate	Less than 0.08 scfm (2.3 NL/min)		
Sensitivity	Less than 1/4 inch (6.3 mm) water		
Bias Range	-30 psig (-2 BAR) to +100 psig (6.7 BAR) Max. output 120 psig (8 BAR)		
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		
Signal Port	1/4" 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
Internal components	Stainless steel, plated steel, brass, aluminum
Elastomers	Nitrile

Ordering

Model

7150

Port Size
(NPT)

B 1/4"

D 1/2"

E 3/4"

Options

E Tapped Exhaust: allows captured exhaust from the (2) 1/4" NPT spacer ports and barbed bleed screw

Range

C 2-120 psig (0.14-8.2 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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