



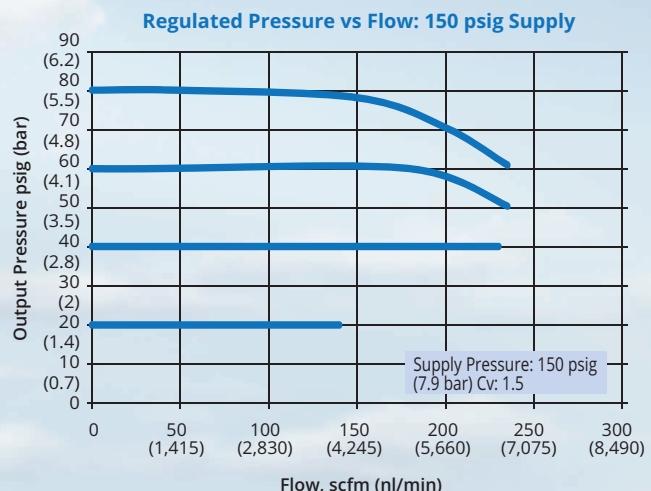
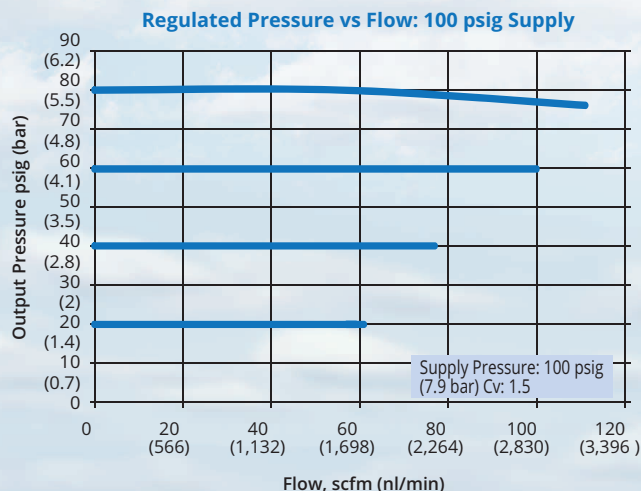
Type 625 Volume Booster

Meet high flow requirements with a low flow pneumatic signal.

The ControlAir Type 625 Volume Booster is a 1:1 signal-to-output pneumatic relay designed to improve control valve performance by increasing airflow to diaphragm or piston actuators. Ideal for large-volume actuators, it increases throttling speed and provides faster valve response while maintaining proportional output pressure for precise, stable control. A fixed deadband and adjustable bypass valve allow small incremental downstream pressure adjustments without opening the main booster valve. The bypass valve also enables dynamic response to be tuned for stable, reliable operation across a wide range of actuator sizes and demanding industrial applications.

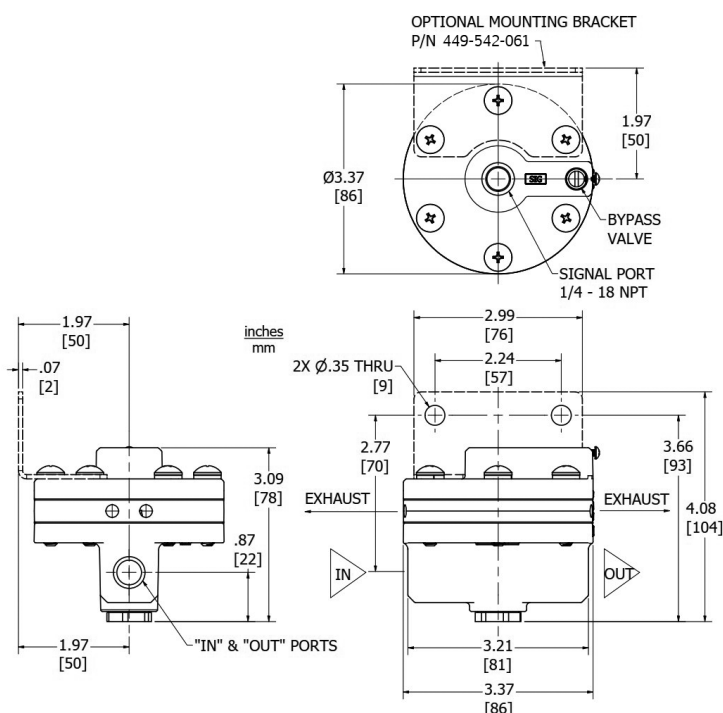
Features

- **1/4" NPT Porting**
- **Aluminum Construction**
- **Integral Adjustable Bypass Valve**
Allows small incremental signal changes without opening the primary valve
- **Soft Valve Seat Design** Provides tight shutoff and eliminates leakage in steady state operation
- **1:1 Pressure Ratio** Delivers consistent output pressure proportional to the input signal for stable control
- **Fast Response Time** Boosts air volume to accelerate actuator movement and reduce lag
- **High Accuracy** Sensitive to small signal changes, improving overall valve positioning precision
- **Bypass Control** Enhances operational safety and system stability.
- **Built-in Air Filtration** Integrated 100-mesh filter protects internal components from dust and contaminants

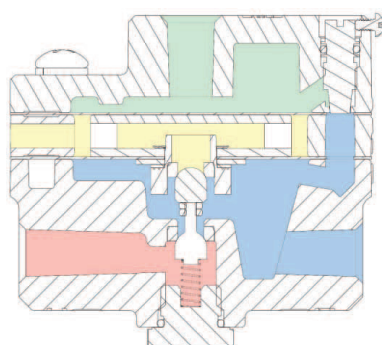


Type 625 Volume Booster

Dimensions



Principles of Operation



Specifications

Signal/Output Ratio	1:1
Supply Pressure	150 psig (10.0 bar) Maximum
Signal Pressure	150 psig (10.0 bar) Maximum
Temperature Limits	-40 to 200°F (-40 to 93°C)
Low Temperature:	-62 to 194°F (-52 to 90°C)
Expanded Temperature:	-55 to 284°F (-48 to 140°C)
Maximum Flow Coefficients (Cv)	Forward: 1.5 Exhaust: 1.5
Exhaust Capacity	15 scfm (425 NI/min)
5 psig (0.35 bar) above 20 psig (1.38 bar) setpoint	
Output Accuracy	1.0% of 100 psi output span
Hysteresis	1% maximum
Signal Port	1/4" NPT
Supply/Output Port	1/4" NPT
Exhaust Port	4 x .23 Vents
Weight	1.25 lbs (.56 kg)

Materials

Housing	Aluminum
Bolting	Zinc Plated Steel
Other trim	Aluminum
Internal components	Aluminum, S.S., FTFE
Elastomers	Nitrile
Low Temperature Option	Silicone
Expanded Temperature Option	EPDM

Ordering

Part Number	Housing Material	Porting
625-BA	Aluminum	1/4" NPT

Options Add proper letter at end of model number.

- L Low Temperature: -62 to 194°F (-52 to 90°C)
- P Expanded Temperature: -55 to 284°F (-48 to 140°C)
- X ATEX 2014/34/EU

Accessories

Mounting Bracket Kit (zinc plated steel): P/N 449-542-061

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 LLC 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 product 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



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