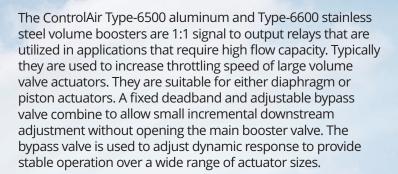


# Туре 6500/6600

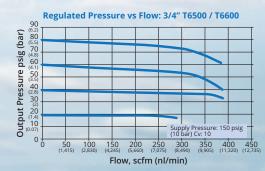
Large Flow Capacity Volume Booster Rapid Stroke Capability in a Rugged Aluminum

or Stainless Steel Casing



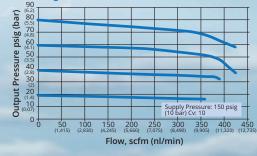
### Features

- 316 Stainless Steel Construction
- 3/4" or 1" NPT Porting
- Integral Adjustable Bypass Valve Allows small incremental signal changes without opening the primary valve
- High Flow Capacity For rapid actuator stroking
- Soft Valve Seat Design Provides tight shutoff and eliminates leakage in steady state operation
- High Temperature Operation Up to 200°F (93°C)
- Tapped High Output Exhaust Port 3/4" NPT exhaust port relieves 100 scfm (2,830 NL/min)
- 2 Gauge Ports Optional Output Feedback Port
- IEC 65108 SIL 3 Compliant
- Low Temperature Option Silicone elastomers allow use to -62°F (-52°C)





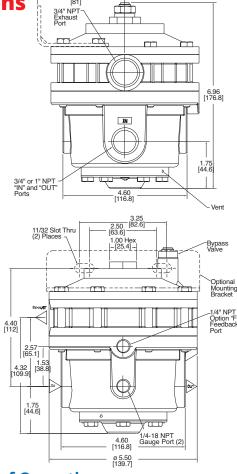
Regulated Pressure vs Flow: 1" T6500 / T6600





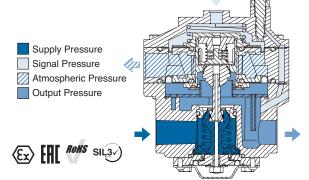
## **Type 6500/6600** Large Flow Capacity Volume Booster

## **Dimensions**



3.20 [81]

#### **Principles of Operation**



Warranty ControlAir, Inc. 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, Inc.'s liability is limited to the repair, purchase price refund, or replacement in kind, at ControlAir, Inc.'s sole option, of any products proved defective. ControlAir, Inc. 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**

Signal/Output Ratio	1:1		
Supply Pressure	250 psig (17.0 BAR) Maximum		
Signal Pressure	150 psig (10.0 BAR) Maximum		
Temperature Limits Low temperature option	-40 to 200°F (-40 to 93°C) -62 to 194°F (-52 to 90°C)		
Maximum Flow Coefficients (Cv)	Forward Exhaust ¾" 8.0 8.0 1" 9.0 8.0		
Exhaust Capacity 5 psig (0.35 BAR) above setpoint	<sup>3</sup> ⁄ <sub>4</sub> " 150 scfm (4,245 NL/min) 1" 150 scfm (4,245 NL/min)		
Output Accuracy	2.0% of span		
Deadband	Under 0.2 psig (.01 BAR)		
Suppy Pressure Effect	0.3 psig (0.02 BAR) for a 100 psig (7 BAR) change		
Signal Port	1/4" NPT		
Supply/Output Port	3/4" or 1" NPT		
Exhaust Port	3/4" NPT		
Gauge Port (2)	1/4" NPT		
Feedback Port (Option)	1/4" NPT		
<b>Weight</b> Type 6500 Aluminum Type 6600 Stainless Steel	6.5 lbs (2.95 kg) 15.0 lbs (6.80 kg)		

## **Materials**

Materials	Туре 6500	Туре 6600
Housing	Aluminum	316 Stainless Steel
Bolting	Zinc Plated Steel	316 Stainless Steel
Other trim	Aluminum	316 Stainless Steel
Internal components	Aluminum	Stainless Steel
<b>Elastomers</b> Low Temperature Option:	Nitrile Silicone	Nitrile Silicone

## Ordering

Part Number	<b>Casting Material</b>	Porting	
6500-EA	Aluminum	34" NPT	
6500-FA	Aluminum	1" NPT	
6600-ES	316 Stainless Steel	34" NPT	
6600-FS	316 Stainless Steel	1" NPT	

**Options** Add proper letter at end of model number.

- F Feedback Port
  - L Low Temperature Operation
- **R** EAC TR-CU
- S Stainless Steel Trim (Type-6500 only)
- **X** ATEX 94/9/EC

#### Accessories

Mounting Bracket (zinc plated steel): P/N 449-542-040 Mounting Bracket (316 stainless steel): P/N 449-542-041 3/4" NPT Exhaust Screen/Muffler Fitting: Plated Steel: P/N 445-761-006

316 Stainless Steel: P/N 445-761-007



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