Type 6500/6600

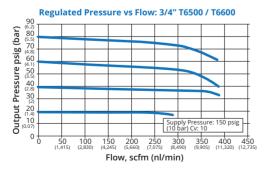
Large Flow Capacity Volume Booster

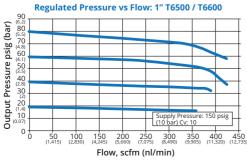
Rapid Stroke Capability in a Rugged Aluminum or Stainless Steel Casing

The ControlAir Type-6500 aluminum and Type-6600 stainless steel volume boosters are 1:1 signal to output relays that are utilized in applications that require high flow capacity. Typically they are used to increase throttling speed of large volume valve actuators. They are suitable for either diaphragm or piston actuators. A fixed deadband and adjustable bypass valve combine to allow small incremental downstream adjustment without opening the main booster valve. The bypass valve is used to adjust dynamic response to provide stable operation over a wide range of actuator sizes.

F E A T U R E S

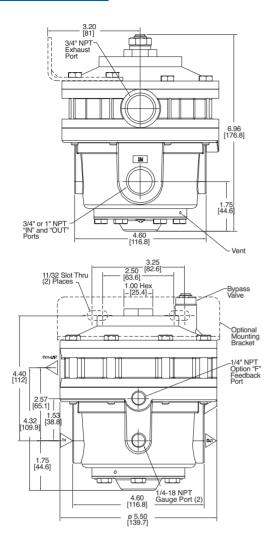
- 316 Stainless Steel Construction
- 3/4" or 1" NPT Porting
- Integral Adjustable Bypass Valve Allows small incremental signal changes without opening the primary valve.
- High Flow Capacity For rapid actuator stroking
- Soft Valve Seat Design Provides tight shutoff and eliminates leakage in steady state 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)



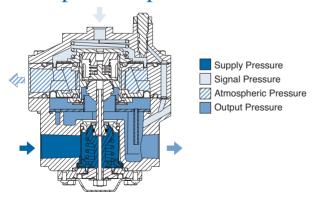








Principles of Operation



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.

Type 6500/6600 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 34" 8.0 8.0 1" 9.0 8.0	
Exhaust Capacity 5 psig (0.35 BAR) above setpoint	34" 150 scfm (4,245 NL/min) 1" 150 scfm (4,245 NL/min)	
Output Accuracy	2.0% of span Under 0.2 psig (.01 BAR) 0.3 psig (0.02 BAR) for a 100 psig (7 BAR) change	
Deadband		
Suppy Pressure Effect		
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	
Weight Type-6500 Aluminum Type-6600 Stainless Steel	6.5 lbs (2.95 kg) 15.0 lbs (6.80 kg)	

Materials of Construction

Materials	Type-6500	Type-6600
Housing	Aluminum	316 Stainless Steel
Bolting	Zinc Plated Steel	316 Stainless Steel
Other trim	Aluminum	316 Stainless Steel
Internal components	Aluminum	Stainless Steel
Elastomers	Nitrile	Nitrile
Low Temperature Option:	Silicone	Silicone

Ordering Information

Part Number	Casting Material	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.

Feedback Port

Low Temperature Operation

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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