

Type 6000

Volume Booster

High Flow Capacity in a Rugged Aluminum or Stainless Steel Casing

The Type 6000 Volume Booster is a one-to-one signal to output relay that, when used with a positioner/actuator, is designed to increase the stroking speed of control valves. An integral bypass valve allows you to tailor the output force to meet the application requirements. Large signal changes to the booster can deliver high volume, fast action throttling control while smaller signal changes are dampened. When used with on/off control valves, the bypass can be closed for increased stroking speed. The T6000 is available in aluminum or stainless steel construction.

Features

- Fast Response Delivers high air volume for rapid actuator stroking
- Adjustable Bypass Valve Tunes unit response to eliminate actuator overshoot or overdamping
- Soft Seat Sealing Provides tight shutoff to reduce costly air consumption
- Corrosion and Wear Resistant **Construction** Stainless steel external trim and internal wear parts
- Available in Aluminum or **Stainless Steel**
- Choice of Porting 1/2" or 3/4" NPT supply and output ports

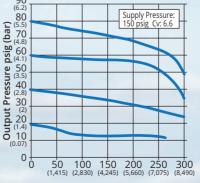
Materials of Construction

Body/Bonnet/Spacer:	Aluminum or 316 Stainless Steel
Diaphragms:	Nitrile / Nylon
Springs:	304 Stainless Steel
Plug:	Stainless Steel / Nitrile
Seat Ring:	Brass or Stainless Steel
Trim:	Stainless Steel
Bypass Valve:	Stainless Steel

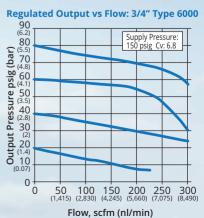
Note: Versions available with EPDM or Silicone elastomers and stainless steel internals. Consult factory for availability.



Regulated Pressure vs Flow: 1/2" Type 6000 90 (6.2)

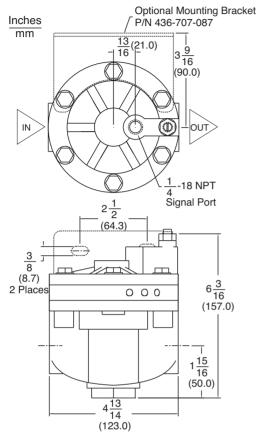


Flow, scfm (nl/min)



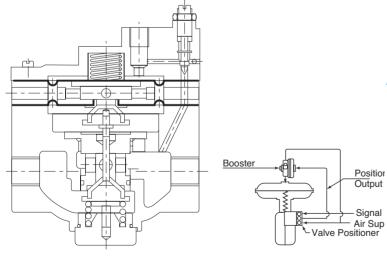
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Dimensions



Principles of Operation

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Specifications

Supply Pressure	150 psig (10 bar) maximum. Not to exceed actuator rating.		
Signal Pressure	150 psig (10 bar) maximum.		
Maximum Flow Coefficients (Cv)	1/2" - Forward: 6.6 / Exhaust: 5.8 3/4" - Forward: 6.8 / Exhaust: 5.8		
Flow Capacity	300 scfm (7,075 NI/min)		
Deadband	Under 0.25 psig (0.017 bar)		
Signal to Output Ratio	1:1 ± 5% of 100 psi output span		
Temperature Limits EPDM Option "R" Silicone Option "H"	-40° to 160° F (-40° to 71° C) standard -40° to 230° F (-40° to 110° C) -60° to 230° F (-51° to 110° C)		
Signal Port	1/4" NPT		
Supply/Output Port	1/2" or 3/4" NPT		
Weight	Aluminum 5 lbs. (2.3 kg) Stainless Steel 11.7 lbs (5.3 kg)		

Ordering

Part Number	In/Out Port	Output Range (psig/bar)	Construction
6000-DA	1/2" NPT	0-150 / 10.0	Aluminum
6000-EA	3/4" NPT	0-150 / 10.0	Aluminum
6000-DS	1/2" NPT	0-150 / 10.0	Stainless Steel
6000-ES	3/4" NPT	0-150 / 10.0	Stainless Steel

Options Add proper letter to end of model number

- E EAC TR-CU
- **H** Silicone Elastomers
- **R** EPDM Elastomers
- X ATEX 94/9/EC II 2 GD

Accessories

Mounting Bracket (304 stainless steel): P/N 436-707-067

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