Model 4020AAV48
Air Pressure Booster

5 to 1 maximum boost ratio
695 psi maximum discharge pressure

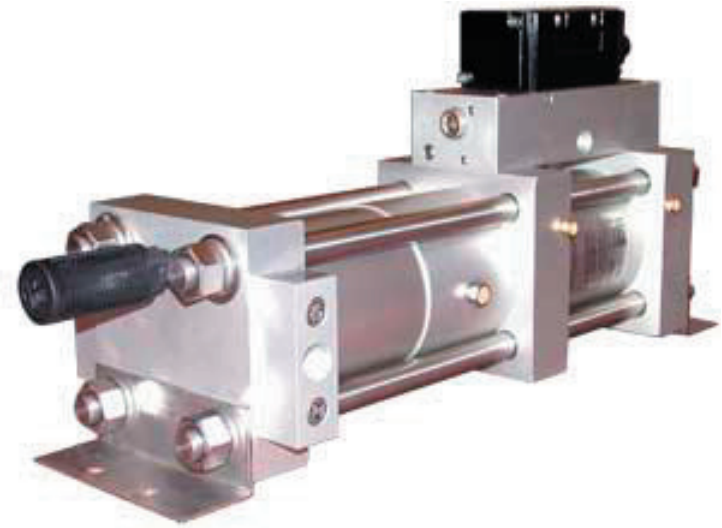
This air pressure booster system uses shop air to boost the pressure of a shop air stream. The drive air piston reciprocates automatically and drives the air compressor piston. The booster is unlubricated, and uses filled Teflon piston seals and rod seals. It requires no electricity, cooling water, or air-line lubricator and is explosionproof.

The maximum discharge pressure is equal to 5 times the shop air supply pressure. The table below shows the maximum flowrate capability for a range of shop air supply pressures and discharge pressures.

The boosted air flowrate and discharge pressure can be controlled by throttling the drive air flowrate and/or regulating the drive air pressure. When there is no demand for high pressure air, the booster stalls when it reaches the maximum discharge pressure. When there is a need for high pressure air, the pressure in the discharge line drops which causes the booster to restart automatically.

Flowrate in SCFM

Discharge Pressure psi	Air Supply Pressure psi			
	60	80	100	120
200	6.4	9.6		
240	4.1	7.2		
280	1.8	6.3	9.2	
320		5.2	8.0	
360		3.8	6.9	11.0
400			5.6	9.6
440			4.6	7.0
480			2	6.3
520				4.0
560				3.1



MODEL 4020AAV48 SPECIFICATIONS

3/8 NPTdrive air supply port
1/2 NPT boost air inlet and discharge ports
4 Inch diameter drive cylinder
2 inch diameter boost cylinder
4 inch stroke
Boost cylinder cooling jacket
Distance piece
Anodized aluminum construction
Stainless steel tie rods and hardware
Capable of 100% duty cycle
Shop air pressure range of 30-150 psig
Discharge pressure range of 30-695 psig
Temperature range of 40-130˚F
23.4” Wide by 9.6” High by 7.9” Deep
Approximate weight of 43 pounds

Features and specifications shown in this brochure are subject to change without notice.

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