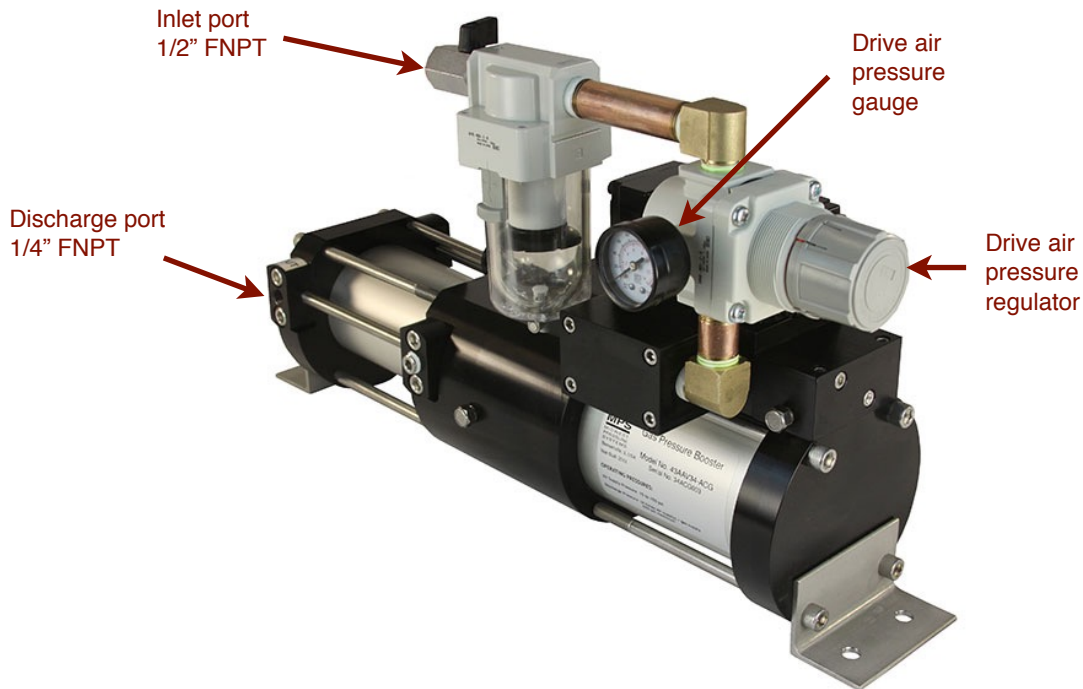


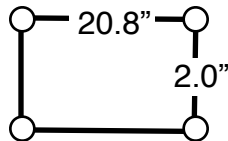
Model Number 43AAV34-AC

2.77:1 Air Pressure Booster w/ Controls • Installation and Operating Instructions



- 1 Mount the Model 43AAV34-AC air booster system on a horizontal surface. Other mounting orientations are not recommended. The booster system vibrates while operating, so use the four 13/32" mounting holes, shown in the diagram below, to bolt it to a solid surface.

Mounting Bolt Pattern:



- 2 Connect your shop air line to the 1/2" FNPT air inlet filter on the front of the booster. A shutoff valve can be installed upstream of the filter for convenient removal of the system for maintenance. The booster has a built-in discharge pressure regulator. Do not install a supply pressure regulator. Lowering the supply pressure reduces the efficiency of the system. The unit is permanently lubricated. **Use of an inlet lubricator will void the warranty. The maximum inlet pressure is 125 psig.**
- 3 Attach discharge line to the 1/4" FNPT port on the end of the booster. **If the application requires a lubricator, make sure the lubricator is installed downstream of the booster.** A filter should be installed to protect downstream components from seal/booster wear particles.

- 4 The shop or supply air pressure is split after the air filter on the front of the booster. One side goes to the inlet of the boost portion of the unit, and the other goes to an air pressure regulator (drive air regulator as seen above) and the drive portion of the booster. The drive air pressure regulator is set by the black, snap-lock knob. Pull out on the knob to unlock it. Adjust the knob by turning it clockwise for a higher drive air pressure or counterclockwise for lower pressure. Drive air pressure is read on the gauge attached to the regulator. **The booster system will attain a maximum pressure equal to 2.77 times the supply air pressure.** For example, if the shop air pressure is 75 psi, the maximum discharge pressure will be $(2.77 \times 75) = 208$ psi. Supply shop air to the booster and it will start to operate. Slowly increase the pressure to with the drive air regulator to attain the desired discharge pressure, and push in on the regulator knob until it "clicks" to lock the regulator on that setting. Note that if the shop air supply pressure fluctuates, the maximum discharge pressure will change accordingly. The maximum discharge pressure for the air booster is 346 psi using a maximum supply air pressure of 125 psi. Install a safety relief valve to protect downstream components not rated for 346 psi.

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