INTRODUCTION

VOLUME BOOSTER is a high volume amplifier used to increase the operating speed of the actuator, preventing the time lags, in the systems where controller & the control valve are separated by extremely long piping runs.

VOLUME BOOSTER receives the low volume signal from the controller & transmits from an auxiliary supply a high volume signal to the control valve actuator.

VOLUME BOOSTER is specially recommended for the use with large capacity diaphragm actuator.

SPECIFICATIONS

Connections : 1/4" NPT (F)
Max. Supply Pressure : Must be same as final control device. Upto 40 psig normally used with diaphragm actuators. Upto 150 Psig normally used with piston actuators.
Pressure Ratio : 1:1
Output Capacity : 13.5 SCFM
Flow Capacity (Cv) : 1.02
Reproducibility : 0.1%
Temperature : -20º to 70º C
M.O.C. : Aluminum LM6 or Stainless steel

DESIGN AND PERFORMANCE FEATURES

>> Improves the stroking speed of large diaphragm actuated valves.
>> Allows normally slow actuator response to the slow signal changes produced by usual process variations.
>> Soft seat provides tight shut off to prevent unnecessary air consumption.

PRINCIPAL OF OPERATION

Input pressure acting upon the effective area of the upper diaphragm produces a force, which is opposed by the output pressure exerted upon the effective area of the lower diaphragm. The opposing forces are in direct 1:1 ratio. Hence any increase in the input pressure will cause the diaphragm assembly opening the pilot valve to admit a sufficient supply of air to the output to rebalance the input pressure.
A decrease in input pressure will cause the diaphragm assembly to lift off the exhaust port reducing the output and again rebalancing the input. Equalising valve, by-passes slow small signal variations.

The Company’s policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice.

BUREAU VERITAS Certification

UKAS QUALITY MANAGEMENT

Plot No: A-35, Road No. 10, Wagle Industrial Estate,
Thane - 400 604, India.
Phone: +9122 2583 8371, 2583 8372, Fax: +9122 2583 8373
E-Mail: info@pneuconvalves.com Web: www.pneuconvalves.com

BUILT IN RELIABILITY