

# PRODUCT BULLETIN

## **Hydraulic over Air Relay Valves**

#### **DESCRIPTION**

MICO® Hydraulic over Air Relay Valves output air pressure in proportion to the hydraulic input pressure. Hydraulic input pressure, from a component such as a master cylinder or hydraulic control valve, sends a pilot signal to the relay valve to modulate air brake pressure. An example application might be controlling an air braked trailer from a hydraulically braked towing vehicle that has an air power source.

MICO has three Hydraulic over Air Relay Valve designs:

- Single input provides on hydraulic pilot port to control modulated air braking pressure.
- Dual input provides two independent pilot ports to control modulated air braking pressure. The dual design function is the same as a single design when pilot pressure is applied to either the P1 or P2 port. When pilot pressure is applied to both P1 and P2 ports at the same time, controlled air braking pressure ratio increase proportionally. The P1 and P2 ports of the dual input relay valve can be of different pressure ratios. Steering assist applications may use a dual input design relay valve.
- Tandem input functions the same as the single design except it provides redundancy by having two independent pilot pressure ports. Hydraulic pilot pressure can be applied to the P1 and/or P2 port and the pressure ratio remains the same.

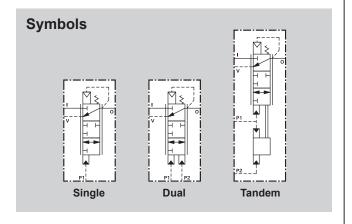
Contact MICO for the different hydraulic pressure to air pressure ratios.

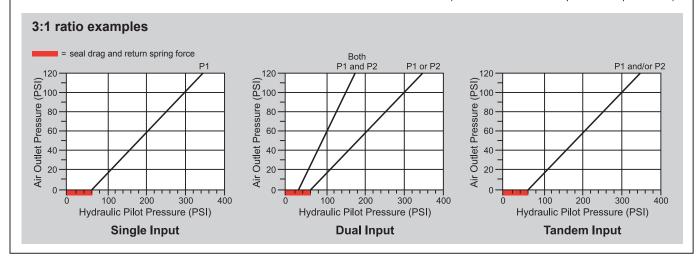
### **SPECIFICATIONS**

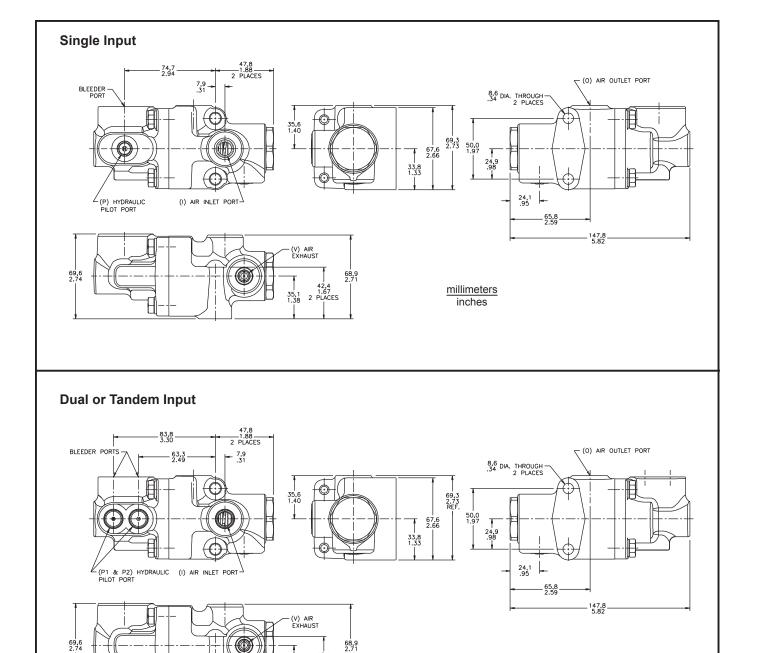
Maximum air pressure	150 PSI
Maximum fluid pressure	2000 PSI
Hydraulic to air pressure ratio	3:1 to 21:1
Maximum operating temperature.	250 °F
Fluid type	mineral base hydraulic oil



Single Dual or Tandem







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Form No. 80-460-051 Revised 2010-12-07 www.mico.com