



For Immediate Release
January 19, 2011

Contact: Dona Rehome
507-386-4035
donar@mico.com

Mike Crummy
701-492-9194
mike@promersberger.com

MICO Hydraulic-Over-Air Relay Valves Convert Hydraulic Input To Air Pressure Output

NORTH MANKATO, Minn. — **MICO, Incorporated** is introducing its **hydraulic-over-air relay valves at the IFPE/ConExpo show in Las Vegas in booth #13653**. The valves are designed to convert hydraulic modulated input pressure to a proportional output air pressure. The new relay valves are ideal for various on- and off-highway applications, such as controlling an air-braked trailer with a hydraulically braked towing vehicle that has an air power source.

The system originates with a hydraulic vehicle component, such as a master cylinder or hydraulic control valve, which delivers a given hydraulic input pressure. This input pressure sends a pilot signal to the relay valve in order to modulate air brake pressure on the other end.

MICO offers three different hydraulic-over-air relay valve designs: single, dual and tandem. The **single input** design provides one hydraulic pilot port to control modulated air braking pressure. The **dual input** features two independent ports, either of which can accept pilot pressure. When pressure is applied to both ports simultaneously, the controlled air braking pressure ratio increases proportionally. The dual input ports can be set up for different pressure ratios, making the dual design a good fit for certain steering assist applications. Functionally similar to the single design, the **tandem input** provides redundancy by utilizing two independent pilot pressure ports. This enables hydraulic pilot pressure to be applied to either port while allowing the pressure ratio to remain the same.

MICO, Incorporated

1911 Lee Boulevard / North Mankato, MN U.S.A. 56003-2507

Web site: www.mico.com / **E-mail:** micomail@mico.com / **Tel:** +1 507 625 6426 / **Fax:** +1 507 625 3212



The new relay valves can accommodate a maximum air pressure of 150 PSI and maximum hydraulic pressure of 2,000 PSI. The valves can be adjusted to operate at anywhere from a 3:1 to 21:1 hydraulic-to-air-pressure ratio. Maximum operating temperature for the valves is 250 degrees Fahrenheit.

MICO, Incorporated designs, manufactures and markets brake systems, hydraulic components and controls, primarily for off-road markets. For more information, contact MICO, Incorporated, 1911 Lee Boulevard, North Mankato, MN 56003, call 507-625-6426, fax 507-625-3212, send an e-mail to micomail@mico.com or visit the company's website at www.mico.com.

###

