



# PRODUCT BULLETIN

## Electrohydraulic Brake Valve EBV-S12 Series

### DESCRIPTION

The MICO® Electrohydraulic Brake Valves, EBV-S12 series, are closed center full power valves used for modulating output pressures up to 200 bar (2900 PSI) in proportion to the input current. These valves in conjunction with electronic controls and properly sized accumulators provide hydraulic power for normal and emergency power-off braking for brake-by-wire (BBW) systems using spring-apply hydraulic release brakes.

### BENEFITS

- Less cab noise because valve can be remotely mounted
- Improves reliability and performance by making maximum use of solenoid stroke and force
- Low valve leakage keeps accumulator sizes small for emergency power-off braking
- Eliminates the continuous flow and small orifices of a pilot valve by simplifying design
- Reduces the effects of friction and contamination with high force solenoid
- Manual override provides a way to mechanically open the valve if electrical power is lost
- Capable of three times the flow capacity of our EBV-S valves

### FEATURES

- Various output pressure ranges available
- Capable of integrating multiple valves and accessories into a single housing
- Optimized specifically for the unique characteristics of full power spring-apply hydraulic release brake systems with large brakes
- Allows full pressure output with low input voltage, higher temperature operation, or continuous use as a result of low resistance coil

### SPECIFICATIONS

Fluid compatibility ..... Mineral base hydraulic oil only  
(nitrile seals)

Output pressure ..... (see chart on back page)

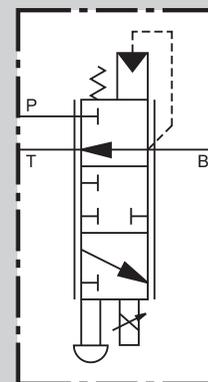
Leakage ..... <48 cc/min @ 138 bar (2000 PSI)  
and 32 cSt (150 SUS)

Rated pressure at (P) and (B) ports ..... 207 bar (3000 PSI)

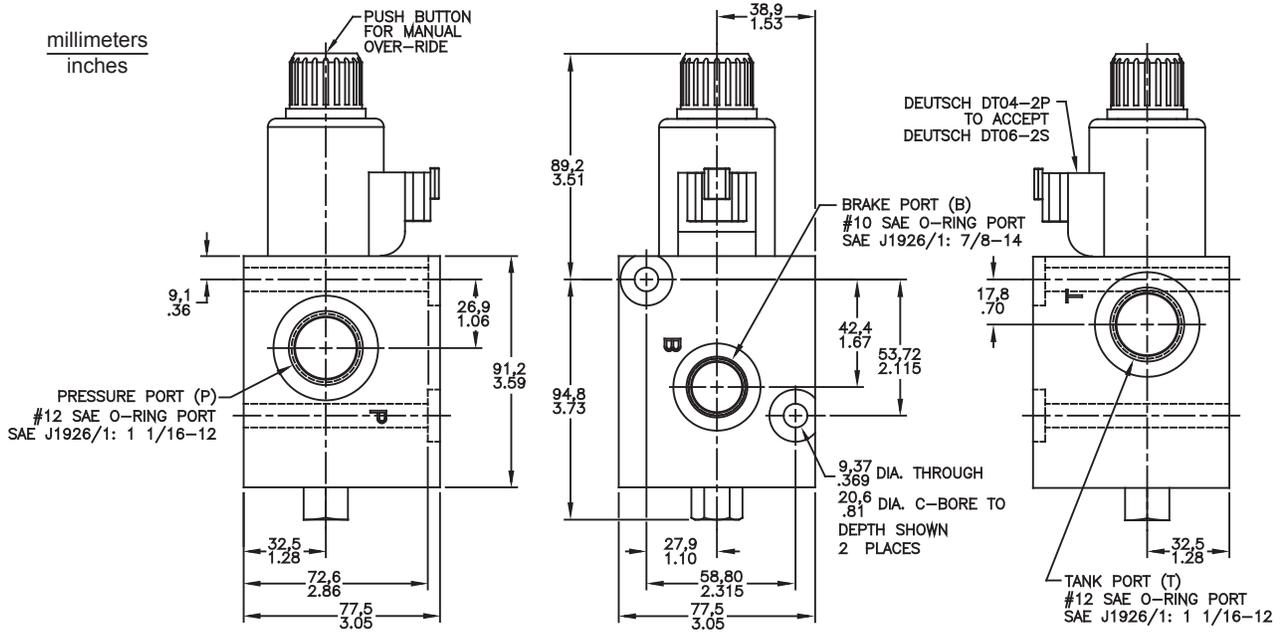


U.S. Patent Number: 6,802,330

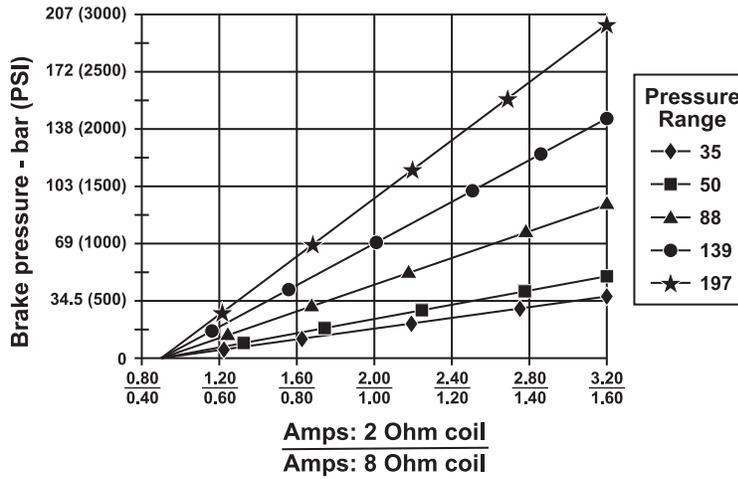
Symbol



millimeters  
inches



**EBV-S12 Brake Pressure vs Current**



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