



PRODUCT BULLETIN

Check Valve Assembly

DESCRIPTION

This ZF Check Valve Assembly is a compact, self-contained unit that includes a check valve and an inverted shuttle valve. It can be used in full power brake systems that have the requirement to store energy in two separate accumulator circuits. Potential applications are split systems with a pressure compensated pump or electrohydraulic charging controlled by a pressure transducer at the switch port.

The inverted shuttle valve of the check valve assembly isolates the higher pressure of the two accumulator circuits and directs the lower of the two to the switch port. A check valve prevents pressure at the switch port from leaking back to the inlet port. Pressure to the accumulators is supplied at the inlet port.

There are several key advantages to using this check valve assembly that will help to reduce your costs in a system of this type.

BENEFITS

- Reduces number of system components
- Reduces plumbing and mounting hardware
- Reduces potential leak points
- Reduces installation time
- Isolates potential system failure points

FEATURES

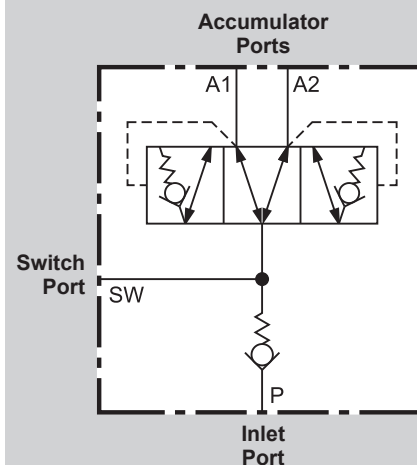
- Supplies fluid for two separate accumulator circuits
- Isolates pressure between two accumulator ports
- Directs lower pressure at the accumulator port to switch port - (contact us for available pressure switches)
- Compact size
- Low leakage
- High flow capacity
- High operating pressure

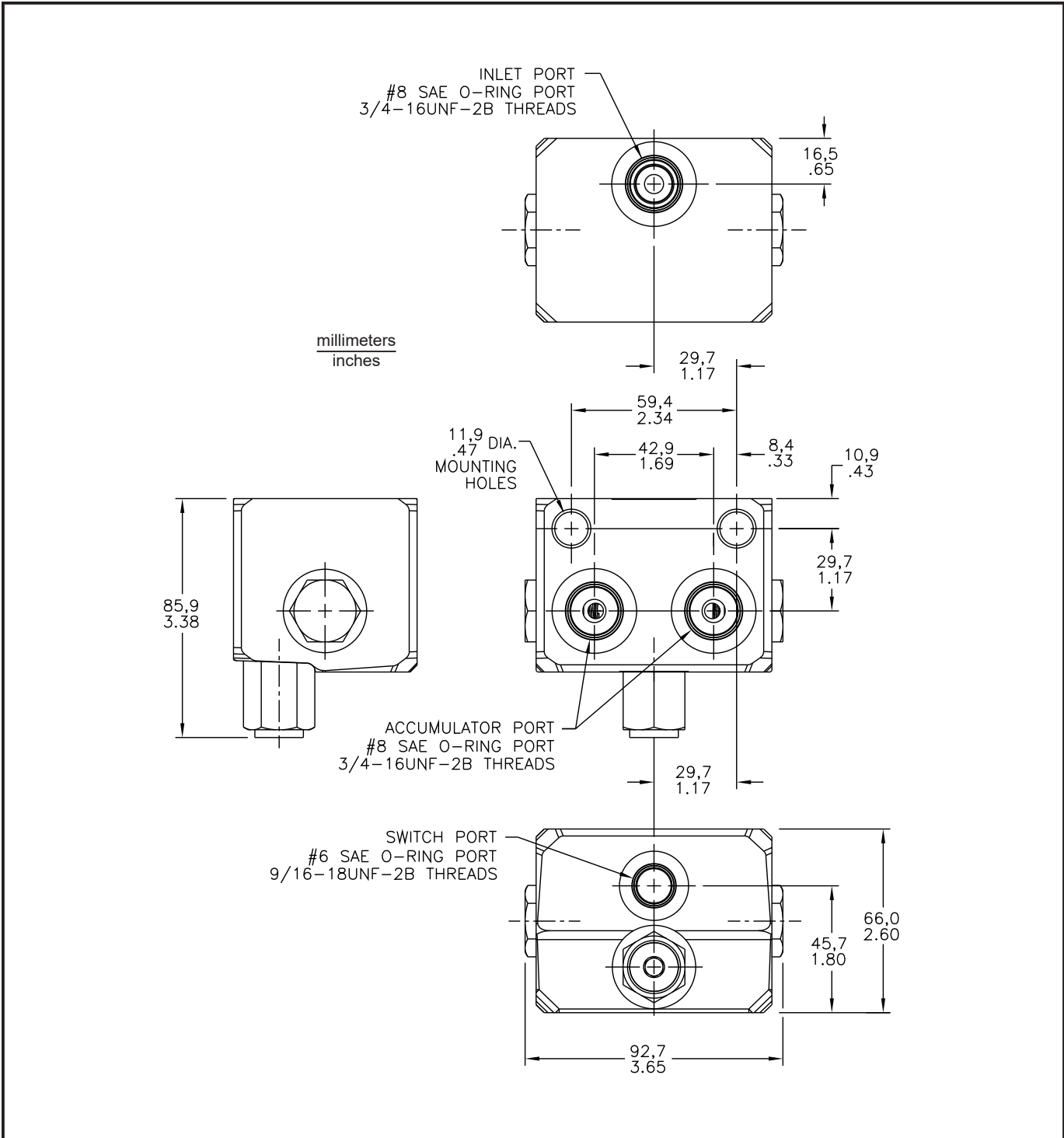
SPECIFICATIONS

Check valve leakage	0.25 cc/min at 3500 PSI (240 bar) maximum
Recommended maximum flow	11.0 GPM (40 LPM)
Available check valve cracking pressures	10 PSI (0.7 bar), 50 PSI (3.4 bar), 80 PSI (5.5 bar)
Maximum pressure drop (inlet port to accumulator ports).....	200 PSID at 10.6 GPM (13.8 bar at 40 LPM) 14 cS oil viscosity
Operating pressure.....	3625 PSI (250 bar) maximum
System filtration.....	10 micron or better is required



Symbol





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