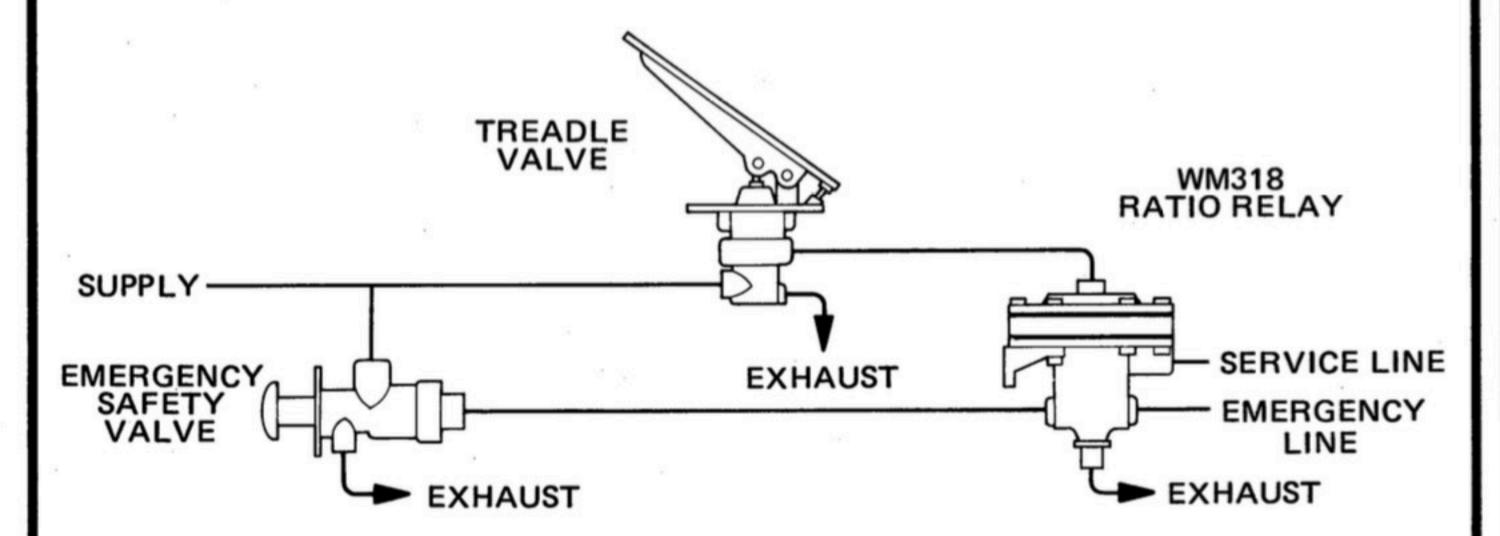
PRODUCT DESCRIPTION

DESCRIPTION Used primarily in vehicular air brake systems, the WM318 series valves are three-way, compensating, pilot pressure-operated relay valves. These valves deliver an output pressure that is proportional to the amount of control pressure applied. Some models in the WM318 series feature an adjustment which allows the output/control pressure ratio to be changed. On other models, this ratio is fixed.

OPERATION To actuate a WM318 series relay valve, a maximum control pressure of 1.5 PSI (10,3 kPa) is required against a 100 PSI (690 kPa) supply. When control pressure is applied, two internal diaphragms expand, closing the exhaust port and opening the outlet port. Air flows from the supply port to the outlet port. As service line pressure increases and the trailer brakes are applied, pressure builds on one side of each diaphragm until a balanced condition is achieved. When this condition occurs, the supply port closes. With no control pressure applied, the valve releases any pressure at the outlet port through the exhaust.

APPLICATION The WM318 relay valves are commonly used as tractor protection valves in tractor-trailer braking systems. These relays protect brake system pressure because the control signal is exhausted through the service treadle and cannot escape downstream through an open service line. When models with the adjustable output/control pressure ratio are installed on trucks or tractors, the trailer brake pressure may be balanced with the tractor brake pressure. Other WM318 models are used in applications where a nonadjustable, factory-preset output/control pressure ratio is desired. The WM318 relays are also used in WM346 fast brake kits to activate the trailer brakes.

TYPICAL INSTALLATION



EXTERNAL CONFIGURATION

