PRODUCT DESCRIPTION

DESCRIPTION The WM764 is a panel-mounted three-way control valve that requires actuation both manually and by pilot pressure. The unit consists of two valves—a manually-actuated two-way valve and a pilot pressure-operated three-way valve—that are stacked in series. A white band on the WM764 knob indicates when the valve is actuated.

OPERATION The first part of the WM764 valve is a manually-actuated valve that is spring-retumed and normally closed. This valve controls the supply port. The second pilot-operated valve controls the exhaust and delivery ports. After manual actuation, the first valve requires a minimum supply pressure of 35-45 PSI (241.3-310.3 kPa) to remain in the open position. When the first valve is manually actuated and no pilot pressure is applied to the second valve, the delivery port is open to the exhaust port. When pilot pressure is applied, the exhaust port closes and air flows from the supply port to the delivery port. If the first valve is manually deactivated when pilot pressure is applied, pressure at the delivery port is exhausted to the atmosphere. If either the supply pressure or the pilot pressure drops below 35-45 PSI (241.3-310.3 kPa), pressure at the delivery port will be automatically released through the exhaust.

APPLICATION The WM764 trailer supply valve is engineered for air brake systems of heavy duty tractor-trailer combinations. In the typical installation shown below, the valve controls the flow of air to the trailer parking brakes. The WM764 control valve complies with FMVSS-121.

TYPICAL INSTALLATION

EXTERNAL CONFIGURATION

Band Color: WHITE

Knob Color: RED

FUNCTIONAL DIAGRAM

I.S.O. SYMBOL

WILLIAMS CONTROLS, INC.
14100 SW 72ND AVENUE, PORTLAND, OREGON 97224, TEL: (503) 684-8600, TELECOPIER: (503) 684-8610, TELEX: 15-1145

REL. 12/79
## PARTS IDENTIFICATION

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Service this unit with repair kit number 117660. Replaceable items are followed by part numbers.

* Asterisk designates parts included in repair kit 117660.

## SPECIFICATIONS

PORT SIZES: Supply & Control ............ .1/8-27 NPTF
Outlet & Exhaust ..................... .1/4-18 NPTF

MAXIMUM OPERATING PRESSURE .......... 150 PSI (1034.2 kPa)
OPERATING TEMPERATURE* ....... -20°F to 200°F (-28.9°C to 93.3°C)
FLOW RATING ................. 15 SCFM @ 100 PSI (0.4 m³/min @ 690 kPa)
AUTO. APPLICATION PRESS. ... Below 35-45 PSI (241.3-310.3 kPa)
MOUNTING .................. 0.88 In. (22.2 mm) Hole in Control Panel
MOUNTING ATTITUDE ............. Optional

MATERIALS: Body Castings ............ Die Cast Zinc Alloy
Cover ................................ Plated Steel
Poppets ........................ Buna N w/ Aluminum Backing
Seals & O-Rings ................ Buna N

NET WEIGHT .................... 1 lb. (0.5 kg)

*For continuous operation beyond this range, contact factory.

## TO ORDER, SPECIFY

WM764
Model Number Suffix

### PART NUMBER

SELECT SUFFIX & PART NUMBER BELOW

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