PRODUCT DESCRIPTION

DESCRIPTION  The WM499 air starter relay valves are normally closed, non-compensating, two-way relay valves engineered specifically for use with air starters. Suitable for large tubing, the WM499 relay valves are capable of high air flow capacity.

OPERATION  To open the valve and allow delivery, the WM499 relay valve is actuated by pressure from a control. With a control pressure of only 30%-35% of the supply pressure, the WM499 valve will open to permit large capacity delivery. A control pressure of approximately 30 PSI (207 kPa), for example, will open the valve against a supply of 100 PSI (690 kPa). When open, the relay valve allows a maximum output pressure equal to the supply pressure. When the control pressure is removed, an internal spring causes the valve to return to its normally closed position.

APPLICATION  WM499 relay valves are engineered for use with air starters in industrial and vehicular applications. WM499 air starter relay valves are especially suited for other applications requiring high flow capacity. MARINE APPLICATIONS: This device meets the pressure test requirements specified in “Marine Engineering Regulations” (CG-115). Documentation is available upon request.

TYPICAL INSTALLATION

EXTERNAL CONFIGURATION

FUNCTIONAL DIAGRAM
PORT SIZES:  Inlet and Outlet: WM499B. .......... 1" NPTF
WM499C. .......... 1/4" NPTF
Control Supply .......... 1/8" NPTF

MAXIMUM OPERATING PRESSURE .......... 150 PSI (1034.2 kPa)
OPERATING TEMPERATURE* .......... -20°F to 200°F (-29.9°C to 93.3°C)
FLOW RATING .......... 1400 SCFM @ 100 PSI (39.7 m³/min @ 690 kPa)
PRESSURE REQUIRED TO OPEN VALVE .......... 30%-35% of Supply
MOUNTING .......... By Inlet and/or Outlet Ports
MOUNTING ATTITUDE .......... Control Port Up Recommended

MATERIALS:  Body Castings .......... Die Cast Aluminum Alloy
Diaphragm .......... Fabric-Reinforced Buna N
O-Rings .......... Buna N
Poppet .......... Molded Buna N with Aluminum Backing

NET WEIGHT .......... 3 lbs. 5 oz. (1.5 kg)

*For continuous operation beyond this range, contact factory.

TO ORDER, SPECIFY

WM499__
Model Number ______ Suffix

PART NUMBER ______

SELECT SUFFIX & PART NUMBER BELOW

<table>
<thead>
<tr>
<th>SUFFIX</th>
<th>PART NUMBER</th>
<th>PORT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM499</td>
<td>113469</td>
<td>Outlet A 1&quot; NPTF, Inlet B 1&quot; NPTF</td>
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<tr>
<td>WM499</td>
<td>113470</td>
<td>1/4&quot; NPTF, 1/4&quot; NPTF</td>
</tr>
</tbody>
</table>

Service this unit with repair kit number 114461.
*Asterisk designates parts included in repair kit.