**General Description**

Series R1E02 direct operated, pressure relief valves are seated type valves typically used for remote pressure controls. In applications where the reliability and simplicity of a hydraulic remote control are preferred to an electrohydraulic system, Series R1E02 is an ideal solution.

Typically pilot operated pressure valves or compensators of variable pumps are controlled.

**Features**

- Seated type valve.
- 3 body variants:  
  - foot mounting  
  - front panel mounting  
  - subplate mounting
- 3 pressure ranges.
- 3 adjustment modes:  
  - hand knobs  
  - acorn nut with lead seal  
  - adjusting with lock

**Technical Information**

damping spool for maximum stability

**Front Panel Mounting**

**Typical Configuration as Remote Pilot Valve**
Pressures Relief Valves
Catalog HY14-2500/US
Technical Information
Series R1E02

Ordering Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Foot Mounting</td>
<td>1</td>
<td>Hand Knob Ø32mm</td>
</tr>
<tr>
<td>2</td>
<td>Front Panel Mounting</td>
<td>3</td>
<td>Acorn Nut with Lead Seal</td>
</tr>
<tr>
<td>3</td>
<td>Subplate Mounting</td>
<td>4</td>
<td>Adjusting Device with Lock (Key Order No. 700-70619)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Weight:</th>
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<tbody>
<tr>
<td>R1E021</td>
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<tr>
<td>R1E022</td>
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<td>R1E023</td>
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</tbody>
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Seal Kit:
R1E021 S26-58466-0
R1E022 S26-58466-0
R1E023 S16-91963-0

Specifications

General
Size 1/4"
Interface Foot mounting, Front panel mounting, Subplate mounting
Mounting Position Unrestricted
Ambient Temperature Range -20°C to +70°C (-4°F to +158°F)

Hydraulic
Maximum Operating Pressure Port P 350 Bar (5075 PSI); Port T depressurized
Pressure Range 105 Bar (1523 PSI), 210 Bar (3045 PSI), 350 Bar (5075 PSI)
Fluid Hydraulic oil as per DIN 51524 ... 51525
Fluid Temperature -20°C to +70°C (-4°F to +158°F)
Nominal Flow 3.8 LPM (1.0 GPM)
Minimum Pressure Setting 7 Bar (102 PSI)
Viscosity Permitted 10 to 650 cSt / mm²/s (46 to 3013 SSU)
Recommended 30 cSt / mm²/s (139 SSU)
Filtration ISO Class 4406 (1999) 18/16/13

Performance Curve

Fluid viscosity 35 cSt at 50°C (122°F) ± 5°C (41°F)
Dimensions

Series R1E02

Pressure Relief Valves

Inch equivalents for millimeter dimensions are shown in (**)

**Foot Mounting**

Ports P and T: G1/4"

**Front Panel Mounting**

Ports P and T: G1/4"

**Subplate Mounting**

<table>
<thead>
<tr>
<th>Subplate</th>
<th>Size</th>
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<tbody>
<tr>
<td>518-00139-0</td>
<td>3/8&quot; NPT</td>
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</tbody>
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