2.2.02-L2-way Control Valves type L1S
Gun Metal, PN 16, DN 15/6 – 20 mm

Characteristics
- Nominal pressure PN 16
- Regulating capability \( \frac{k_{vs}}{k_{vpr}} > 25 \)
- Single seated and tight closing
- Quadratic characteristic

Applications
Regulating valves type L1S are designed for regulating low, medium and high pressure hot water, steam and lubricating oils.

The valves are installed combined with temperature or pressure differential regulators in control systems for heating of domestic premises, district heating, industrial processes or marine installations.

Quality assurance
All valves are manufactured under an ISO 9001 certification, and are pressure and leakage tested before shipment.

Function
Without the actuator being connected, the valve is held in open position by means of a spring. With pressure on the spindle the valve will close.

In connection with thermostats or electronic actuators, the valves will close at rising temperatures. For cooling circuits a reverse acting valve can be used. The quadratic characteristic will not cease, until the flow has dropped below 4% of the full flow.

Technical Data
Materials:
- valve body Gun metal RG 5
- components Stainless steel

Nominal pressure PN 16
Seating Single seated
Valve characteristic Quadratic
Leakage \( \leq 0.05\% \) of \( \upsilon_{s} \)
Temperature range See pressure/temperature diagram
Mounting See page 2
Internal connection threads ISO 7/1

<table>
<thead>
<tr>
<th>Type</th>
<th>Connection threads</th>
<th>DN mm</th>
<th>Opening mm</th>
<th>( k_{vs} ) value m³/h</th>
<th>Lifting height mm</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/6 L1S</td>
<td>Rp ½</td>
<td>15</td>
<td>6</td>
<td>0.45</td>
<td>6</td>
<td>0.7</td>
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<tr>
<td>15/9 L1S</td>
<td>Rp ½</td>
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<td>9</td>
<td>0.95</td>
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<td>0.7</td>
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<td>15/12 L1S</td>
<td>Rp ½</td>
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<td>12</td>
<td>1.7</td>
<td>6</td>
<td>0.7</td>
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<tr>
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<td>Rp ½</td>
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<td>15</td>
<td>2.75</td>
<td>6</td>
<td>0.7</td>
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<td>20 L1S</td>
<td>Rp ¾</td>
<td>20</td>
<td>20</td>
<td>5.00</td>
<td>7</td>
<td>0.8</td>
</tr>
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</table>

Subject to change without notice.
2-way Control Valves type L1S
Gun Metal, PN 16, DN 15/6 – 20 mm

**Definition of k\textsubscript{VS}-value**
The k\textsubscript{VS}-value is identical to the IEC flow coefficient k\textsubscript{v} and defined as the water flow rate in m\textsuperscript{3}/h through the fully open valve by a constant differential pressure, Δp\textsubscript{v}, of 1 bar.

**Mounting**
The valves can be installed with vertical as well as horizontal spindles. For valve temperatures of max. 170°C, the thermostat/actuator can be fitted below or above the valve. For valve temperatures above 170°C, a cooling unit of type KS 4 has to be applied with connection downwards.

**Strainer**
It is recommended to use a strainer in front of the regulating valve if the liquid contains suspended particles.

**Accessories**

**Manual Adjusting Device**

The device has a built-in stuffing box. For sealing and manual operation of valves when an actuator has not been fitted, e.g. during periods of construction (max. 170°C).

**Cooling Unit KS-4**

Cooling unit protecting the stuffing box of the motor/thermostat. To be applied at valve temperatures between 170°C and 250°C.

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