Electronic pressure-independent 6-way zone valve (EPIV)

The electronic pressure-independent 6-way zone valve from the Belimo ZoneTight™ product family combines the benefits of two tried and tested Belimo valves. The good planning reliability and efficiency of the electronic pressure-independent valve (EPIV) and the ease of installation of the 6-way characterised control valve. You also benefit from other outstanding properties:

- Time-saving and safe valve selection in accordance with maximum volumetric flow for each sequence
- Automatic, permanent hydraulic balancing through the valve
- Securing the correct amount of water with differential pressure changes and with partial loads
- Maximum plant safety through integrated pressure relief function (patent pending)
- Numerous control options, simple commissioning and checks via Near Field Communication (NFC).
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**Functional, easy to install and versatile.**

**Functional principle**
- Takes over the function of four 2 port valves.
- With integrated flow measurement (1) and electronic flow control (2).
- Quick to configure as the $k_v$ value does not have to be calculated.
- The characterised control valve seals completely (3).

**Sequences for cooling and heating**
- Different max. flow rates can be set for cooling and heating.
- Assurance of the desired flow for full and partial load.
- Smartphone-based commissioning and checks – even without power supply.
- Can be controlled by Belimo MP-Bus, BACnet MS/TP, Modbus or conventional control signals.

**Application with room temperature controller**
- Rapid commissioning as a result of flexible installation.
- Optimises control of the 6-way zone valve.
- Energy-efficient through intelligent override function.

**Electronic pressure-independent 6-way zone valve (EPIV)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal diameter</th>
<th>$V_{nom}$</th>
<th>$V_{max}$ [m$^3$/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DN l/s l/min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP015R-R6+BAC</td>
<td>15</td>
<td>0.35</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.063 ... 1.26</td>
</tr>
<tr>
<td>EP020R-R6+BAC</td>
<td>20</td>
<td>0.65</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.117 ... 2.34</td>
</tr>
</tbody>
</table>

Medium temperature: +6 ... +80°C, system pressure (ps): 1600 kPa