Description

R383 straight and R384 angled twin-pipe valves have been designed for panel radiators with integrated control, with 3/4"E connection and 50 mm center distance. Panel radiators with 1/2"F connection can also be connected using a special adapter. R383 and R384 valves are equipped with internal lockshield valves on the two connections by which the flow can be intercepted isolating the panel radiators. The lockshield valves also enable to balance the circuits with an Allen key by varying the number of turns to open them (we recommend turning only one lockshield valve, leaving the other completely open). A third lockshield valve positioned on the by-pass allows to obtain the two possible versions (single pipe or twin pipe) depending on the type of system on which the valves are installed.

Versions and product codes

<table>
<thead>
<tr>
<th>Series</th>
<th>Product code</th>
<th>Connections</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>R383</td>
<td>R383X001</td>
<td>3/4&quot;F x base 18</td>
<td>straight</td>
</tr>
<tr>
<td>R383</td>
<td>R383X011</td>
<td>1/2&quot;M x base 18</td>
<td></td>
</tr>
<tr>
<td>R383</td>
<td>R383X002</td>
<td>3/4&quot;F x 3/4&quot;E</td>
<td></td>
</tr>
<tr>
<td>R383</td>
<td>R383X012</td>
<td>1/2&quot;M x 3/4&quot;E</td>
<td></td>
</tr>
<tr>
<td>R384</td>
<td>R384X001</td>
<td>3/4&quot;F x base 18</td>
<td>angled</td>
</tr>
<tr>
<td>R384</td>
<td>R384X011</td>
<td>1/2&quot;M x base 18</td>
<td></td>
</tr>
<tr>
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<td>R384X002</td>
<td>3/4&quot;F x 3/4&quot;E</td>
<td></td>
</tr>
<tr>
<td>R384</td>
<td>R384X012</td>
<td>1/2&quot;M x 3/4&quot;E</td>
<td></td>
</tr>
</tbody>
</table>

Notes.

Codes for 3/4"F panel radiators include n. 2 Eurocono inserts R483Y011.
Codes for 1/2"M panel radiators include n. 2 adapters R483Y002 (1/2"M x 3/4"F).

Technical data

- Temperature range: 5 – 110 °C
- Max. working pressure: 10 bar
- Connections center distance: 50 mm
- Non-preferential delivery and return connections
- System connections with 3/4"E adapter or base 18
- Balancing lockshield valves adjustable with 6 mm hexagonal Allen key
- By-pass lockshield valve adjustable with 6 mm hexagonal Allen key

Pressure losses

The pressure loss diagrams have been determined for the R383 straight valve and the R384 angled valve in twin pipe version (by-pass lockshield valve closed) keeping one lockshield valve completely open and varying the number of turns to open the other. In single pipe version the two lockshield valves are fully open and to vary the opening of the by-pass lockshield valve are obtained variations of water flow to the panel radiator.

### R383 - Single pipe version

<table>
<thead>
<tr>
<th>N. of turns to open the lockshield valve</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>T.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kv</td>
<td>0.48</td>
<td>0.68</td>
<td>0.90</td>
<td>1.10</td>
<td>1.37</td>
</tr>
<tr>
<td>% flow rate to the panel</td>
<td>82</td>
<td>72</td>
<td>65</td>
<td>59</td>
<td>48</td>
</tr>
</tbody>
</table>

### R383 - Twin pipe version

<table>
<thead>
<tr>
<th>N. of turns to open the lockshield valve</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>3</th>
<th>T.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kv</td>
<td>0.26</td>
<td>0.47</td>
<td>0.75</td>
<td>0.89</td>
<td>0.96</td>
<td>1.01</td>
</tr>
</tbody>
</table>
**Valves for Single-pipe and Twin-pipe Systems**

**Single-pipe and Twin-pipe Valves for Panel Radiators R383 and R384**

**R384 - Single pipe version**

Lockshield valves open.
Balancing on by-pass.

<table>
<thead>
<tr>
<th>N. of turns to open the lockshield valve</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>T.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KV</td>
<td>1.58</td>
<td>1.67</td>
<td>1.73</td>
<td>1.81</td>
<td>1.92</td>
</tr>
<tr>
<td>% flow rate to the panel</td>
<td>78</td>
<td>77</td>
<td>66</td>
<td>59</td>
<td>50</td>
</tr>
</tbody>
</table>

**Installation**

The twin-pipe valves R383 and R384 are connected directly to panel radiators with 3/4”E connection, placing the included R483Y001 plastic adapter in between.

If the panel radiators have 1/2”F connections, the R483Y002 special adapter with self-sealing gasket should be screwed on the panel radiator with a 10 mm hexagonal Allen key. After installing the adapter, connect the valve by tightening the nuts with a 30 mm hexagonal wrench.

The valves are connected to the supplying pipes with Eurocono (R178E, R179E) or base 18 (R178, R179, R179AM) adapters, according to the version.

After installation proceed with the balancing of the valve acting appropriately on lockshield valves according to requirements by following the calibration diagrams.

To drain from the panel radiator the water contained unscrew the front protective plugs, close the lockshield valves using a 6 mm Allen key, screw to a lockshield valve the R700 key making sure that the pipe holder is facing down, hook the bonnet wrench to the hexagonal nut of the lockshield valve and unscrew to allow the water flow. When the drain is complete close the nut and proceed in the same way to drain also the other lockshield valve.

When maintenance operations are completed mount the panel radiator and slowly open a lockshield valve at a time to allow air to vent.

In single pipe systems to avoid the phenomenon of natural circulation can be positioned in correspondence of the return connection from the panel radiator, in the valve under the gasket, the appropriate R484 sphere.

**R384 - Twin pipe version**

One lockshield valve open.
Balancing on the second lockshield valve.
By-pass lockshield valve closed.

<table>
<thead>
<tr>
<th>N. of turns to open the lockshield valve</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>3</th>
<th>T.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KV</td>
<td>0.26</td>
<td>0.56</td>
<td>0.78</td>
<td>1.01</td>
<td>1.20</td>
<td>1.36</td>
</tr>
</tbody>
</table>

**R383 with R483Y001**

**R383 with R483Y002**

**R384 with R483Y001**

**R384 with R483Y002**
Valves for Single-pipe and Twin-pipe Systems

Single-pipe and twin-pipe valves for panel radiators R383 and R384

Product specifications

R383
Single-pipe and twin-pipe panel radiator valve, straight for floor-deriving pipes, nickel-plated brass. Flat seat connections with gaskets, including self-sealing adapters for 3/4”M or 1/2”F panel radiators. Center distance 50 mm. Piping connection with 3/4” Eurocono or base 18 adapters. Temperature range: 5-110 °C. Max. working pressure: 10 bar.

R384
Single-pipe and twin-pipe panel radiator valve, angled for wall-deriving pipes, nickel-plated brass. Flat seat connections with gaskets, including self-sealing adapters for 3/4”M or 1/2”F panel radiators. Center distance 50 mm. Piping connection with 3/4” Eurocono or base 18 adapters. Temperature range: 5-110 °C. Max. working pressure: 10 bar.

Dimensions

R383

Product code | A x B | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | W [mm] | CH [mm]
--- | --- | --- | --- | --- | --- | --- | --- | ---
R383X001 | 3/4”F x base 18 | 50 | 25 | 29 | 39 | 68,5 | 30 | 6
R383X002 | 3/4”F x 3/4”E | 50 | 25 | 29 | 39 | 68,5 | 30 | 6

R384

Product code | A x B | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | W [mm] | CH [mm]
--- | --- | --- | --- | --- | --- | --- | --- | ---
R384X001 | 3/4”F x base 18 | 50 | 25 | 23 | 38,5 | 69 | 30 | 6
R384X002 | 3/4”F x 3/4”E | 50 | 25 | 23 | 38,5 | 69 | 30 | 6

R384

Product code | A x B | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | W [mm] | CH [mm]
--- | --- | --- | --- | --- | --- | --- | --- | ---
R384X011 | 1/2”M x base 18 | 50 | 25 | 23 | 50,5 | 69 | 30 | 6
R384X012 | 1/2”M x 3/4”E | 50 | 25 | 23 | 50,5 | 69 | 30 | 6

Product code | A x B | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | W [mm] | CH [mm]
--- | --- | --- | --- | --- | --- | --- | --- | ---
R384X021 | 1/2”F x 3/4”E | 50 | 25 | 23 | 50,5 | 69 | 30 | 6
R384X022 | 3/4”F x 3/4”E | 50 | 25 | 23 | 50,5 | 69 | 30 | 6