Design
The Verafix-VKE consists of:
• Straight valve body for floor connection or angle valve body for wall connection
• Ball valve insert
• Radiator connection nuts
• Universal externally threaded connections (Eurotaper connections) suitable for copper, precision steel tube, plastics and composite tube (see accessories for external thread fittings)

Materials
• Hot-forged brass body
• Brass nickel ball valve insert
• EPDM O-ring sealings
• Brass union connections
• Brass radiator connection nuts
• Seat sealings PTFE
• EPDM seals

Application
The Verafix-VKE is an lockshield valve for compact radiators with connection centres of 50 mm. It is used on two-pipe systems with radiators which have integral valves to regulate and shut-off individual radiators.
Verafix-VKE is suitable for hot water heating systems.
Verafix-VKE with 1/2” internal threads are suitable for radiators which include the following makes:
Bemm Finimétal Northor Superia
Concept Ferroli Purmo Thor
Dia-Norm Henrad Radson VEHA
Dia-therm Korado Schäfer Vogel & Noot
Dura Manaut Stelrad

Verafix-VKE with 3/4” external threads are suitable for radiators which include the following makes:
Baufa Buderus Kermi Ribe
Brötje De Longhi Reusch RIOPanel
Brugman

Features
• Optional flow direction. Performance values apply for both directions of flow
• Robust brass housing
• Connection on pipework side 3/4” external thread for copper, soft steel, plastic and composite pipes
• Connectors on radiator side 3/4” external thread with conus

Specifications
<table>
<thead>
<tr>
<th>Medium</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH-value</td>
<td>8.0...9.5</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>max. 120°C (248°F)</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>max. 10.0bar (145psi)</td>
</tr>
<tr>
<td>(k_v) ((c_v))-value</td>
<td>Straight: 3.5, Angle: 1.8</td>
</tr>
</tbody>
</table>
Function

The supply and return of the radiator can be shut-off by turning the ball valve inserts of the Verafix-VKE to the horizontal position with a screwdriver. The valves are supplied set fully open.

Dimensions

NOTE: All dimensions in mm unless stated otherwise.

Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Pipe connection</th>
<th>Radiator connection</th>
<th>DN</th>
<th>k_v2(c_v2)-value</th>
<th>OS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle (wall connection) integrated cone</td>
<td>3/4” external</td>
<td>3/4” external</td>
<td>15</td>
<td>1.8</td>
<td>V2495EX020A</td>
</tr>
<tr>
<td>Angle (wall connection) integrated cone and double nipple</td>
<td>3/4” external</td>
<td>1/2” internal</td>
<td>15</td>
<td>1.8</td>
<td>V2495EY015A</td>
</tr>
<tr>
<td>Straight (floor connection) integrated cone</td>
<td>3/4” external</td>
<td>3/4” external</td>
<td>15</td>
<td>3.5</td>
<td>V2495DX020</td>
</tr>
<tr>
<td>Straight (floor connection) integrated cone and double nipple</td>
<td>3/4” external</td>
<td>1/2” internal</td>
<td>15</td>
<td>3.5</td>
<td>V2495DY015</td>
</tr>
</tbody>
</table>


Accessories

Compression fitting for COPPER and STEEL pipe.
Consisting of one-piece (preassembled) nut.
Soft sealing connection.
For valves with external thread G3/4".

Connection | Pipe | Part number | Pcs/pack |
------------|------|-------------|----------|
G3/4" 10 mm | FEG3/4CS10 | 1 |
G3/4" 12 mm | FEG3/4CS12 | 1 |
G3/4" 14 mm | FEG3/4CS14 | 1 |
G3/4" 14 mm | FEG3/4CS14-10 | 10 |
G3/4" 15 mm | FEG3/4CS15 | 1 |
G3/4" 15 mm | FEG3/4CS15-10 | 10 |
G3/4" 16 mm | FEG3/4CS16 | 1 |
G3/4" 18 mm | FEG3/4CS18 | 1 |

NOTE: Reinforcing insert for copper or soft steel pipe with 1,0 mm wall thickness not required.
Max. operating temperature 90°C, max. operating pressure 10 bar.

Compression fitting for PEX pipe.
Consisting of one-piece (preassembled) nut and reinforcing insert.
Soft sealing connection.
For valves with external thread G3/4".

Connection | Pipe | Part number | Pcs/pack |
------------|------|-------------|----------|
G3/4" 12x1,1 mm | FEG3/4P12X1.1 | 1 |
G3/4" 16x1,5 mm | FEG3/4P16X1.5 | 1 |

NOTE: Max. operating temperature 90°C, max. operating pressure 10 bar.

Compression fitting for PEX and MULTILAYER pipe.
Consisting of one-piece nut with preassembled anti-torsion elastic compression ring and one-piece reinforcing insert.

Connection | Pipe | Part number | Pcs/pack |
------------|------|-------------|----------|
G3/4" 14x2 mm | FEG3/4PM14X2 | 1 |
G3/4" 16x2 mm | FEG3/4PM16X2 | 1 |
G3/4" 16x2,2 mm | FEG3/4PM16X2.2 | 1 |
G3/4" 17x2 mm | FEG3/4PM17X2 | 1 |
G3/4" 17x2 mm | FEG3/4PM17X2-10 | 10 |
G3/4" 18x2 mm | FEG3/4PM18X2 | 1 |
G3/4" 18x2 mm | FEG3/4PM18X2-10 | 10 |
G3/4" 20x2 mm | FEG3/4PM20X2 | 1 |

NOTE: Max. operating temperature 90°C, max. operating pressure 10 bar.

Double nippel (2 pcs.)
for all V2495 VS3295A015

Installation example

Fig. 5. Two-pipe system with distribution manifold and Verafix-VKE

Please note:

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- Additives have to be suitable for EPDM sealings
- System has to be flushed thoroughly before initial operation with all valves fully open
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Honeywell
- Please contact us if you should have any special requirements or needs
Flow Diagram VKE2495E

<table>
<thead>
<tr>
<th>lt./min</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δp (bar)</td>
<td>0.01</td>
<td>0.07</td>
<td>0.20</td>
<td>0.39</td>
<td>0.63</td>
<td>1.00</td>
<td>1.45</td>
<td>1.92</td>
</tr>
</tbody>
</table>

Flow Diagram VKE2495D

<table>
<thead>
<tr>
<th>lt./min</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>55</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δp (bar)</td>
<td>0.07</td>
<td>0.13</td>
<td>0.20</td>
<td>0.29</td>
<td>0.38</td>
<td>0.50</td>
<td>0.62</td>
<td>0.76</td>
<td>0.91</td>
</tr>
</tbody>
</table>