Data Sheet for
5523/5524
Edition 0803 (0502)

Radiator Control Valves
with Pre-Setting by Means of Limitation of Valve Lift

We reserve the right to make modifications necessitated by technological progress.

Dimensions in mm

<table>
<thead>
<tr>
<th>Article-number</th>
<th>Model</th>
<th>Ø Connection</th>
<th>L</th>
<th>H max.</th>
<th>h</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5523</td>
<td>Straight valve</td>
<td>3/8</td>
<td>12</td>
<td>74</td>
<td>61</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2</td>
<td>15</td>
<td>82</td>
<td>61</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3/4</td>
<td>18</td>
<td>95</td>
<td>61</td>
<td>–</td>
</tr>
<tr>
<td>5524</td>
<td>Angle valve</td>
<td>3/8</td>
<td>12</td>
<td>47</td>
<td>60</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2</td>
<td>15</td>
<td>52</td>
<td>56</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3/4</td>
<td>18</td>
<td>60</td>
<td>57</td>
<td>27</td>
</tr>
</tbody>
</table>

Models

These universal models are nickel-plated and equipped with special sockets for threaded pipe and compression union connections.

Special Models

R = R 1/2
G = G 3/4

HERZ Armaturen
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The HERZ-GP-valves are equipped with special sockets offering the option of connecting either a threaded pipe or a calibrated soft-steel or copper pipe, the latter two by means of compression union. The compression union must be ordered separately.

When using R=1/2" valves for external pipe diameters 10, 12, 14, 16 and 18 mm use adapter Art. No. 6272 between valve and compression union.

### Universal Model

**Pipe Connection**

The HERZ-GP-valves are equipped with special sockets offering the option of connecting either a threaded pipe or a calibrated soft-steel or copper pipe, the latter two by means of compression union. The compression union must be ordered separately.

When using R=1/2" valves for external pipe diameters 10, 12, 14, 16 and 18 mm use adapter Art. No. 6272 between valve and compression union.

<table>
<thead>
<tr>
<th>Pipe ø D mm</th>
<th>12</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>18</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter</td>
<td>1 6272 01</td>
<td>1 6272 01</td>
<td>1 6272 01</td>
<td>1 6272 01</td>
<td>1 6272 01</td>
<td>1 6272 01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compr. Union</td>
<td>1 6292 00</td>
<td>1 6284 00</td>
<td>1 6284 00</td>
<td>1 6284 00</td>
<td>1 6284 00</td>
<td>1 6284 00</td>
<td>1 6289 01</td>
<td>1 6282 02</td>
</tr>
</tbody>
</table>

We recommend use of support sleeves for the installation of soft steel or copper pipes with compression unions. For perfect installation, it is imperative to lubricate the thread of the locking nut (male thread and female thread) as well as the olive itself with silicon oil. We refer to our instructions for installation.

### Pre-Setting

**Pre-setting on the basis of resistance calculation:**

1. Close valve.
2. Slacken handwheel fastening screw and remove handwheel.
3. Slacken positioning screw with 1.5 mm Allen key (6618).
4. Screw in the nut clockwise up to the stop, this corresponds to pre-setting step V = 0.
5. Set at the desired pre-setting step by turning the nut counterclockwise, One turn corresponds to one pre-setting step according to HERZ-standard diagram. V = 2 means 2 turns, etc.
7. Put handwheel in place and tighten screw.

**For pre-adjustment:**

1. Close valve until the system is balanced.
2. Remove handwheel.
3. Slacken positioning screw with 1.5 mm Allen key (6618) by 1/2 turn.
4. Tighten nut up to the stop.
5. Tighten positioning screw.
6. Put handwheel in place and tighten screw.

### Spindle Seal

**Spindle Seal Set**

If the valve seal is damaged (water leak at the valve upper part) a HERZ-GP spindle seal set can be used for repairs.

1. Close the valve completely (turn anti-clockwise)
2. Remove handwheel
3. Unscrew seal (21 mm Allen key)

**Valves with Pre-setting**

4. Screw on spindle seal set 6702 with inside O-ring and tighten moderately with 21 mm Allen key. Restore original setting

**Valves without Pre-setting**

4. Screw on spindle seal set 6702 with inside O-ring and tighten moderately with 21mm Allen key.
5. Mount handwheel and tighten with screw.

### Model for Public Buildings

The lockshield 6503 is available for protection against manipulation by unauthorized persons.

1. Remove handwheel.
2. Set spindle at the desired flow rate.
3. Put lockshield in place and secure with handwheel screw.

### Accessories

1 6618 00  1.5 mm Allen key for positioning screw “pre-setting”
1 6680 00  HERZ-Assembly key for connections

### Spare Parts

1 6501 10  Handwheel with fastening screw
1 6503 10  Lockshield
1 6701 00  Spindle seal set for valves without pre-setting function
1 6702 00  Spindle seal set for valves with pre-setting function

The diagrams inside this leaflet serve to determine the valve resistance values and show the individual pre-setting steps.
### Operating Data

- **Maximum operating temperature**: 110 °C
- **Maximum operating pressure**: 10 bar

Hot water quality according to Austrian standard ÖNORM H 5195 and/or VD guideline 2035.

### HERZ-Compression Unions

When using compression unions for copper and steel pipes, take into account the permissible temperature and pressure ratings according to EN 1254-2: 1998, Table 5.

### HERZ-Plastic Pipe Connections

Plastic pipe connections are suitable for application classes 4 and 5 according ISO 10508 (panel heating and radiator connection) as well as for pipes made of PE-RT (DIN 4721), PE-MDX (DIN 4724), PB and PE-X (DIN 4726) as well as plastic-metal composite tubes (ÖNORM B 5157).

Operating temperature, resulting thereof: maximum 95 °C with 10 bar. It is the operators task, to regulate operating pressure an operating temperature in such a way that they are conforming to standards and that operational data of the pipe producer are respected.

### Further Connecting Options

- **To be used instead of the radiator connection and on the male thread G 3/4:**
  - **6210** 1/2 Iron pipe connection, lengths 26 mm and 35 mm
  - **6211** 1/2 Reducing connection, 1/2 x 3/8
  - **6213** 3/8 Reducing connection, 3/8 x 1/2
  - **6218** 3/8–3/4 Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8 x 40: 1/2 x 39, 42 and 76; 3/4 x 70 mm
  - **6218** 1/2 Threaded bush, without nut, lengths 36, 39, 42, 48 and 76 mm.
  - **6235** 3/8–3/4 Soldering connection 3/8 x 12; 1/2 x 12, 15 and 18; 3/4 x 18 mm.
  - **6249** 3/8–3/4 Connection elbow for iron pipes, without nut, with cone seal
  - **6274** G 3/4 Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm
  - **6275** G 3/4 HERZ-compression union with soft seal for copper and thin-walled steel pipes, particularly suitable for hard special steel pipes and pipes with hard-galvanised surfaces. For external pipe diameters 12, 14, 15 mm
  - **6276** G 3/4 Compression union with soft seal, olive, massive rubber joint (EPDM) to wards pipe, locking nut G 3/4. For external pipe diameters 12, 15, 18 mm.
  - **6292** 3/8–3/4 Compression union, with metal-to-metal joint, olive, metal-to-metal joint towards pipe, olive screw. For external pipe diameters 12, 15, 18 mm.
  - **6097, 6098** G 3/4 HERZ-compression union for PE-X-, PB and plastic composite pipes.

### HERZ-GP

Models for Public Buildings

#### HERZ-GP Special Models

- **1 5523 10** 3/8 Model for public buildings with lockshield
- **1 5523 11** 1/2 Universal models in straight versions
- **1 5523 12** 3/4
- **1 5524 10** 3/8 Angle model for public buildings
- **1 5524 11** 1/2
- **1 5524 12** 3/4

### HERZ-GP Valves in Special Designs, Dimension 1/2

To be used instead of the radiator connection and on the male thread G 3/4:

- **6219** 1/2–3/4 Reduction socket, brass version, for connecting pipe and valve, female thread (pipe) x male thread (valve) 1 x 1/2, 1 1/4 x 1/2, 1 x 3/4, 1 1/4 x 3/4
- **6066, 6067** M 22 x 1,5 Plastic pipe connection for PE-X-, PB and plastic composite pipes, for use with adapter 1 **6272** 01 (R 1/2 x M 22 x 1,5)
- **6097, 6098** G 3/4 Plastic pipe connection for PE-X, PB and plastic composite pipes, for use with adapter 1 **6266** 01 (R 1/2 x G 3/4)

For pipe dimensions of plastic pipe connections refer to the HERZ-catalogue.

Please refer to the HERZ-Catalogue for order numbers.