Summary · Valves mounted on controllers with electric actuators

- Typical rangeability 1 : 50 (not possible with all valves)
- Leakage class acc. to DIN EN 1349 · Metal sealing: Leakage class IV · Soft sealing: Leakage class VI

Scope of application

<table>
<thead>
<tr>
<th>Application</th>
<th>Type 3213/5724*</th>
<th>Type 3213/5725*</th>
<th>Type 3214/5724</th>
<th>Type 3214/5725</th>
<th>Type 3222/5724*</th>
<th>Type 3222/5725*</th>
<th>Type 3222/5725***</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DHW heating in instantaneous system</strong></td>
<td></td>
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<td></td>
<td><strong>Heating applications</strong></td>
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<tr>
<td>Fixed set point control loops in mechanical engineering applications</td>
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<td></td>
<td></td>
<td>Type 3222/5757***</td>
</tr>
</tbody>
</table>

**Nominal size**

- *: DN 15 to 50
- **: DN 15 to 25

- DN 25 and smaller: PN 25
- DN 32 and larger: PN 16

<table>
<thead>
<tr>
<th>Nominal pressure</th>
<th>DN 25 and smaller: PN 25</th>
<th>DN 32 and larger: PN 16</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>PN 16 to 40</td>
<td>PN 25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum permissible temperature</th>
<th>220 °C</th>
<th>220 °C</th>
<th>200 °C</th>
</tr>
</thead>
</table>

Version

**Without safety function**

- Type 3213/5724
- Type 3213/5757

- Type 3214/5724

**With safety function**

- Type 3213/5725
- Type 3214/5725

- Type 3222/5725

Refer to Data Sheet for more details

T 5768 EN and T 5769 EN

T 5768 EN and T 5769 EN

T 5766 EN

Principle of operation

The control valves consist of either a globe or three-way valve mounted on a controller with electric actuator.

The electric actuator has an integrated digital controller. The control variable is recorded by a directly connected Pt 1000 sensor. The output signal of the digital controller acts on the actuator which positions the actuator stem.

Register number

The Type 5725 Actuators with safety function in conjunction with the listed valves in the force-locking version are type-tested according to DIN 32730 by the German Technical Inspectorate TÜV. The register number is available on request.

Accessories for domestic hot water heating

(combinations including Type 5724/5725 and Type 5757 Controller with Electric Actuator)

A fast-responding Type 5207-0060 Temperature Sensor is required to operate the control valves. The use of a sensor pocket is recommended to position the sensor optimally at the heat exchanger.

To further improve the control accuracy, a water flowmeter or a flow switch can be connected to the controller with electric actuator.

- Type 5207-0060 Pt 1000 Contact Sensor
- Sensor pocket, order no. 1400-9249
- Water flowmeter including extension cable with mating connector, order no. 1400-9246
Accessories for heating applications
(combinations including Type 5757-7 Controller with Electric Actuator)

A Pt 1000 sensor to measure the flow temperature is required for the control valve to function. Depending on the control task, an outdoor sensor (outdoor temperature compensated control) or a room sensor or room panel (fixed set point control with room temperature influence) can be connected. As a rule, the combination with a return flow sensor is possible.

- Type 5267-2 Pt 1000 Contact Sensor
- Type 5257-2 Pt 1000 Room Sensor with potentiometer
- Type 5257-7 Room Panel with potentiometer and mode selector switch
- Type 5227-2 Pt 1000 Outdoor Sensor

**Communication**
The control valve and the configuration and operator interface can be connected directly (online connection over data cable) or indirectly (data transmission using a memory pen). In online mode, the control valve performance can also be monitored from the control station. The control valve settings can be changed at anytime. Refer to the Data Sheets T 5724 EN, T 5757 EN and T 5757-7 EN for more details on the controllers with electric actuators.

- TROVIS-VIEW 6661 configuration software for Type 5724/5725, Type 5757 or Type 5757-7 Controller with Electric Actuator
- Hardware package including a memory pen, connecting cable and modular adapter, order no. 1400-7704
- Memory pen, order no. 1400-7697

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**Table:**

<table>
<thead>
<tr>
<th></th>
<th>Type 3222 N/5757</th>
<th>Type 3260/5724*</th>
<th>Type 3260/5725*</th>
<th>Type 3260/5757**</th>
<th>Type 3267/5724*</th>
<th>Type 3267/5725*</th>
<th>Type 3267/5757**</th>
<th>Type 2488/5724*</th>
<th>Type 2488/5725*</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Type 3222 N/5757-7</td>
<td>Type 3260/5757-7**</td>
<td>Type 3226/5724*</td>
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<td>Type 3226/5757**</td>
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<td>Type 3267/5757**</td>
<td>Type 2488/5724*</td>
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<td>PN 16</td>
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<td>PN 16/25</td>
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</tbody>
</table>

**1)** Special version
Typical application with Type 3222/5757 Control Valve for domestic hot water heating in instantaneous system.

AS Outdoor sensor
RS Room sensor
RüS Return flow sensor

VS Flow sensor
VSWW Flow sensor DHW

UP Circulation pump
Zir Circulation pump
KW Cold water
WWW Hot water

RL District heating network return flow
VL District heating network supply