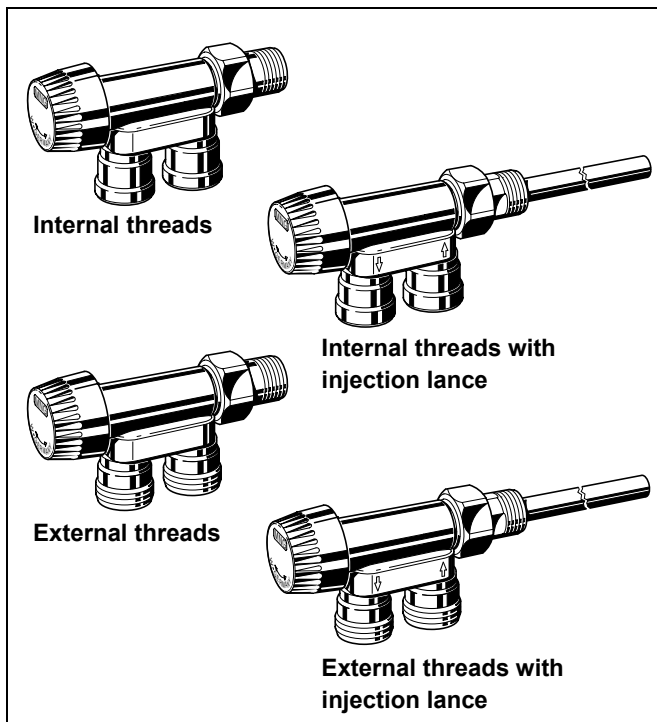


## V2230, V2240, V2250, V2260 Thermostatic Distribution Valves

### THERMOSTATIC VALVES FOR DISTRIBUTION SYSTEMS

#### PRODUCT DATA



### Design

The flowshare valve consists of:

- Valve housing PN10, DN15
  - with external threads, or
  - with internal threads to DIN2999 (ISO7) for threaded pipe or copper/precision steel pipe 10...18 mm using compression pipe fittings (see 'Accessories')
- Thermostatic valve insert
- Union-nut and radiator tailpiece
- Colour protection cap

### Materials

- Valve housing made of nickel-plated brass
- Valve insert made of brass with EPDM O-rings and soft seals and stainless steel spindle
- Union-nut and tailpiece made of brass, union-nut nickel-plated
- Protection cap made of plastic

### Application

Together with a radiator thermostat Thermostatic Distribution Valves are used to control temperature in one- or two-pipe distribution systems. They are used in combination with an F type Distribution Valve and/or a Verafix lockshield valve.

The valve can be shutoff with the protection cap, or later with the radiator thermostat (not supplied with the valve).

By using distribution valves connections under the floor or in the wall are avoided.

### Features

- No connections under the floor necessary
- Shutoff does not affect other radiators in the loop
- Installation in supply or return (observe flow direction)
- Valve seat can be cleaned and/or valve insert replaced without draining the system
- Available with R 1/2" internal or G 3/4" external threads

### Specifications

|                               |   |             |
|-------------------------------|---|-------------|
| <b>Medium</b>                 | Heating water, water quality to VDI2035   |             |
| <b>pH-value</b>               | 8...9.5   |             |
| <b>Operating temperature</b>  | max. 130°C (266°F)  |             |
| <b>Operating pressure</b>     | max. 10 bar (145 psi)   |             |
| <b>Differential pressure</b>  | max. 1 bar (14.5 psi) –<br>max. 0.2 bar (2.9 psi) recommended for quiet operation |             |
| <b>k<sub>vs</sub>-values*</b> | two-pipe  | 0.14 (0.16) |
|                               |   | 0.36 (0.42) |
|                               |   | 0.62 (0.73) |
|                               |   | 0.80 (0.94) |
|                               | one-pipe  | 1.70 (1.99) |
| <b>Radiator proportion</b>    | 50 % (one pipe)   |             |
| <b>Thermostat connection</b>  | M30 x 1.5   |             |
| <b>Closing dimension</b>      | 11.5 mm   |             |
| <b>Stroke</b>                 | 2.5 mm  |             |

NOTE: Protection cap is colour-coded for easy identification

## Function

Thermostatic radiator valves enable individual control of room temperature and thus save energy.

The TRV body is controlled by the radiator thermostat. Air from the room passing over the sensor of the radiator thermostat causes the sensor to expand when the temperature rises. The sensor acts onto the valve spindle and this causes the TRV

body to close. When the temperature falls the sensor contracts and the spring-loaded valve spindle is opened. The TRV opens in proportion to the temperature of the sensor. Only the amount of water required to maintain the room temperature set on the radiator thermostat can flow into the radiator.

## Dimensions and Ordering Information

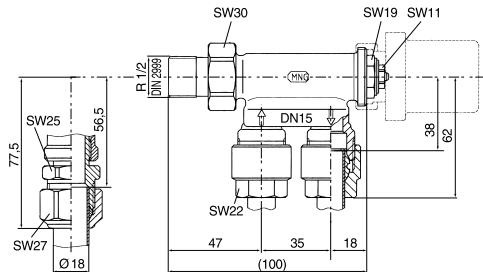


Fig. 1. External threads version

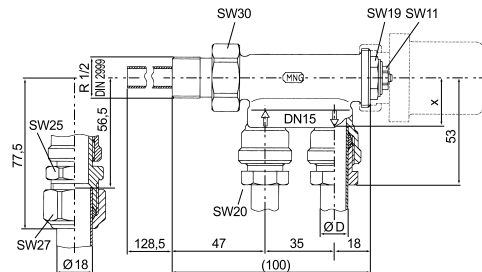


Fig. 2. External threads version with injection lance

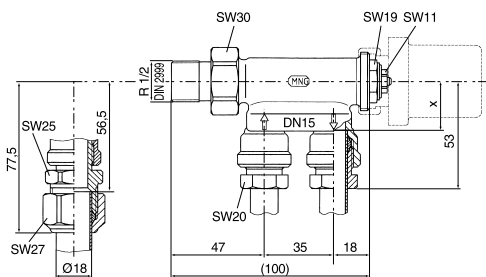


Fig. 3. Internal threads version

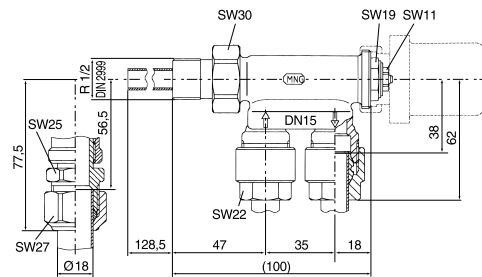


Fig. 4. Internal threads version with injection lance

NOTE: All dimensions in mm unless stated otherwise.

### 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







Table 1. Available versions and OS-Nos (OS=Ordering Specification)

| Body type  | DN | k <sub>vs</sub> (cv)-values | Protection cap | OS-No.     |
|--|----|-----------------------------|----------------|------------|
| <b>Thermostatic Distribution Valves for two-pipe systems</b> |    |                             |                |            |
| External threads   | 15 | 0.14                        | red            | V2240XK315 |
| External threads   | 15 | 0.36                        | blue           | V2240XK415 |
| External threads   | 15 | 0.62                        | black          | V2240XBB15 |
| External threads   | 15 | 0.80                        | green          | V2240XK515 |
|  |    |                             |                |            |
| External threads with injection lance                        | 15 | 0.14                        | red            | V2260XK315 |
| External threads with injection lance                        | 15 | 0.36                        | blue           | V2260XK415 |
| External threads with injection lance                        | 15 | 0.62                        | black          | V2260XBB15 |
| External threads with injection lance                        | 15 | 0.80                        | green          | V2260XK515 |
|  |    |                             |                |            |
| Internal threads   | 15 | 0.14                        | red            | V2240YK315 |
| Internal threads   | 15 | 0.36                        | blue           | V2240YK415 |
| Internal threads   | 15 | 0.62                        | black          | V2240YBB15 |
| Internal threads   | 15 | 0.80                        | green          | V2240YK515 |
|  |    |                             |                |            |
| Internal threads with injection lance                        | 15 | 0.14                        | red            | V2260YK315 |
| Internal threads with injection lance                        | 15 | 0.36                        | blue           | V2260YK415 |
| Internal threads with injection lance                        | 15 | 0.62                        | black          | V2260YBB15 |
| Internal threads with injection lance                        | 15 | 0.80                        | green          | V2260YK515 |
|  |    |                             |                |            |
| <b>Thermostatic Distribution Valves for one-pipe systems</b> |    |                             |                |            |
| External threads   | 15 | 1.70                        | white          | V2230X0015 |
| Internal threads   | 15 | 1.70                        | white          | V2230Y0015 |
| External threads with injection lance                        | 15 | 1.70                        | white          | V2250X0015 |
| Internal threads with injection lance                        | 15 | 1.70                        | white          | V2250Y0015 |






## Accessories

### Connections for valves with external threads



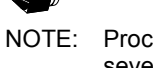
#### 2 Connections for copper and soft steel pipe

|  |              |            |
|--|--------------|------------|
|  | 3/4" x 10 mm | VA7200A010 |
|  | 3/4" x 12 mm | VA7200A012 |
|  | 3/4" x 14 mm | VA7200A014 |
|  | 3/4" x 15 mm | VA7200A015 |
|  | 3/4" x 16 mm | VA7200A016 |
|  | 3/4" x 18 mm | VA7200A018 |

#### 2 External connections for plastic pipe

|  |                  |            |
|--|------------------|------------|
|  | 3/4" x 12 x 2 mm | VA7210A012 |
|  | 3/4" x 14 x 2 mm | VA7210A014 |
|  | 3/4" x 16 x 2 mm | VA7210A016 |
|  | 3/4" x 17 x 2 mm | VA7210A017 |
|  | 3/4" x 18 x 2 mm | VA7210A018 |




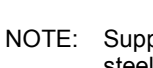
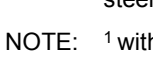

#### 2 External connections for composite pipe, alplex-therm

|  |                  |            |
|--|------------------|------------|
|  | 3/4" x 14 x 2 mm | VA7220A014 |
|  | 3/4" x 16 x 2 mm | VA7220A016 |
|  | 3/4" x 18 x 2 mm | VA7220A018 |

NOTE: Processing after technical documentation of the several companies

### Connections for valves with internal threads

#### Compression ring and nut with support insert (2 pcs each)



|  |              |                         |
|--|--------------|-------------------------|
|  | 1/2" x 10 mm | VA621A1510 <sup>1</sup> |
|  | 1/2" x 12 mm | VA621A1512              |
|  | 1/2" x 14 mm | VA621A1514 <sup>1</sup> |
|  | 1/2" x 15 mm | VA621A1515              |
|  | 1/2" x 16 mm | VA621A1516              |
|  | 1/2" x 18 mm | VA621A1518 <sup>2</sup> |

NOTE: Support inserts have to be used for copper or soft steel pipe with 1,0 mm wall thickness

NOTE: <sup>1</sup> without support inserts

NOTE: <sup>2</sup> with 2 adapters

#### Compression ring and nut with support insert for composite pipe (2 pcs each)

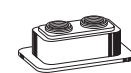
|  |              |            |
|--|--------------|------------|
|  | 1/2" x 14 mm | VA622B1514 |
|  | 1/2" x 16 mm | VA622B1516 |

#### Manual handwheel cap



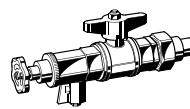
Pre-settable, with integrated locking device VA2200D001

#### Floor cover for Ø15, 16 and 18 mm pipe



white VA2201B015

#### Service tool to replace valve insert



for all sizes VA8200A001

#### Replacement valve insert



KV3 type VS1200K301  
KV4 type VS1200K401  
KV5 type VS1200K501

#### Replacement valve insert



BB type VS1200BB01

#### Replacement valve insert



UBG type VS1200UB01

#### Special tool for assembly of thermostat



VA8210A001

#### Pressure cap – for shutting off valves on radiator outlet



for valve DN15 VA2202A015

#### Sealing ring for Pressure cap



for valve DN15 VA5090A015

### Automation and Control Solutions

Honeywell GmbH

Hardhofweg

74821 Mosbach, Germany

Phone: +49 (6261) 810

Fax: +49 (6261) 81393

www.honeywell.com

EN0H-2402GE25 R1206  
Dezember 2006

© 2006 Honeywell International Inc.  
Subject to change • All rights reserved

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland or by its Authorized Representative.

# Honeywell