

# HydroControl VTR

## Double Regulating Valve PN 16 DN 65



Double regulating valve for static hydronic balancing of pipe networks in closed heating and cooling systems. It offers a measuring function via the valve seat, which is, however, closed with a blind plug when delivered.

The HydroControl VTR consists of a Y-pattern body and a valve insert with double O-ring sealing and ergonomically designed handwheel.

### Functions

- Flow regulation
- Reproducible presetting
- Shutoff

### Features

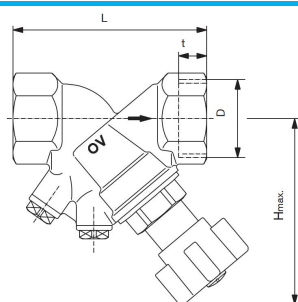
- + High flow rate
- + Robust construction
- + Can be equipped with Classic measuring valves

### Technical data

|                       |   |
|-----------------------|---|
| Nominal size          | DN 65   |
| Variant               | With internal thread according to EN 10226  |
| Operating temperature | -20 to 150 °C   |
| Operating pressure    | max. 16 bar / PN 16   |
| Medium                | Heating or cooling water according to VDI 2035 or ÖNORM 5195<br>Water-glycol mixtures with max. 50 % glycol content |
| Kvs value             | 50  |

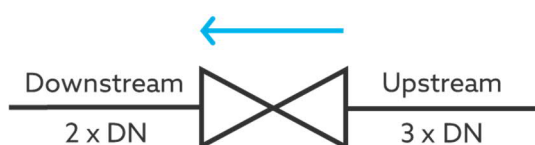
# Product Details

## Dimensions and item numbers



|          |         |
|----------|---------|
| DN       | 65      |
| D        | Rp 2 ½  |
| H        | 186     |
| L        | 151     |
| Kvs      | 50      |
| Item no. | 1060120 |

## Installation



Calming sections of 3 x DN upstream and 2 x DN downstream of the HydroControl VTR should be provided.

The valve must be installed correctly in the flow direction which is indicated by an arrow on the body.

## Kv values

| Pre-decimal point | Decimal point presetting |       |      |      |      |      |      |      |      |      |
|-------------------|--------------------------|-------|------|------|------|------|------|------|------|------|
|                   | .0                       | .1    | .2   | .3   | .4   | .5   | .6   | .7   | .8   | .9   |
| 1                 | 7.0                      | 7.3   | 7.6  | 7.9  | 8.2  | 8.5  | 8.8  | 9.1  | 9.4  | 9.7  |
| 2                 | 10.0                     | 10.4  | 10.8 | 11.2 | 11.6 | 12.0 | 12.4 | 12.8 | 13.2 | 13.6 |
| 3                 | 14.0                     | 14.3  | 14.6 | 14.9 | 15.2 | 15.5 | 15.8 | 16.1 | 16.4 | 16.7 |
| 4                 | 17.0                     | 17.5  | 18.5 | 18.5 | 19.0 | 19.5 | 20.0 | 20.5 | 21.0 | 21.5 |
| 5                 | 22.0                     | 22.4  | 22.8 | 23.2 | 23.6 | 24.0 | 24.4 | 24.8 | 25.2 | 25.6 |
| 6                 | 26.0                     | 26.3  | 26.6 | 26.9 | 27.2 | 27.5 | 27.7 | 27.9 | 28.1 | 28.3 |
| 7                 | 28.5                     | 28.8  | 29.1 | 29.4 | 29.7 | 30.0 | 30.4 | 30.8 | 31.2 | 31.6 |
| 8                 | 32.0                     | 32.3  | 32.6 | 32.9 | 33.2 | 33.5 | 33.8 | 34.1 | 34.4 | 34.7 |
| 9                 | 35.0                     | 35.5  | 36.0 | 36.5 | 37.0 | 37.5 | 38.0 | 38.5 | 39.0 | 39.5 |
| 10                | 40.0                     | 40.5  | 41.0 | 41.5 | 42.0 | 42.5 | 43.0 | 43.5 | 44.0 | 44.5 |
| 11                | 45.0                     | 45.5  | 46.0 | 46.5 | 47.0 | 47.5 | 48.0 | 48.5 | 49.0 | 49.5 |
| 12                | 50.0                     | = Kvs |      |      |      |      |      |      |      |      |

The kv values apply for use with water in the supply and return if the direction of flow corresponds to the direction of the arrow. For water-glycol mixtures, correction factors may have to be applied.