

# HydroControl A

## Shutoff valves PN 25 / PN 16

### DN 15...50



The HydroControl A is a shutoff valve for pipelines in heating and cooling systems.

It consists of a flow optimised Y-pattern body, a valve insert with low pitch, double O-ring sealing and ergonomically designed handwheel as well as a HydroPort auxiliary valve. All functions are accessible from the top.

### Functions

- Shutoff
- Connection for impulse tube
- Quick connection for the impulse tube of the HydroControl D differential pressure regulator
- Filling, draining and venting

### Features

- + Reliable and robust design
- + All functions always included for easy connection
- + New HydroPort auxiliary valve for easy, quick and safe connection of accessories

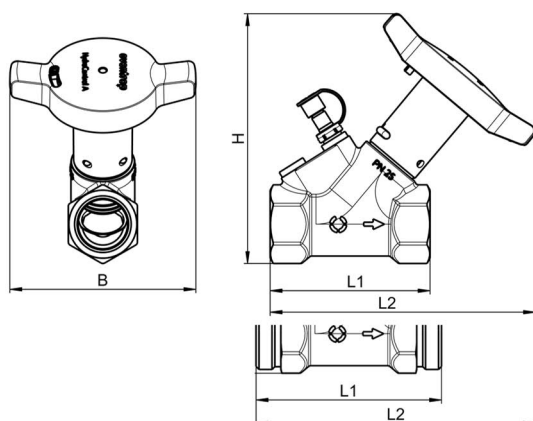
# Product Details

## Technical Data

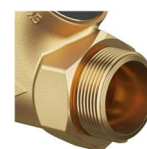
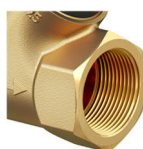
|                       |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| Nominal sizes         | DN 15...50                                                                                                          |
| Variants              | With internal thread according to EN 10226<br>With external thread according to ISO 228                             |
| Operating temperature | -20...150 °C                                                                                                        |
| Operating pressure    | Internal thread: max. 25 bar / PN 25<br>External thread: max. 16 bar / PN 16                                        |
| Medium                | Heating and cooling water according to VDI 2035 or ÖNORM 5195<br>Water-glycol mixtures with max. 50% glycol content |
| Kvs values            | 4.1...49.8                                                                                                          |

## Dimensions

| DN | INTERNAL THREAD |            |            | EXTERNAL TRHEAD |            |            | B<br>[mm] | H<br>[mm] | Weight<br>[kg] |
|----|-----------------|------------|------------|-----------------|------------|------------|-----------|-----------|----------------|
|    | Conne-<br>ction | L1<br>[mm] | L2<br>[mm] | Conne-<br>ction | L1<br>[mm] | L2<br>[mm] |           |           |                |
| 15 | Rp ½            | 72         | 142        | G ¾             | 88         | 149        | 109       | 129       | 0.57           |
| 20 | Rp ¾            | 84         | 152        | G 1             | 93         | 154        | 109       | 136       | 0.67           |
| 25 | Rp 1            | 98         | 160        | G 1 ¼           | 109        | 164        | 109       | 147       | 0.99           |
| 32 | Rp 1 ¼          | 116        | 172        | G 1 ½           | 134        | 182        | 109       | 157       | 1.44           |
| 40 | Rp 1 ½          | 124        | 177        | G 1 ¾           | 144        | 187        | 109       | 164       | 1.80           |
| 50 | Rp 2            | 155        | 195        | G 2 ¾           | 166        | 204        | 109       | 184       | 3.10           |



## Item Numbers



|    |      | INTERNAL THREAD |          | EXTERNAL THREAD |          |
|----|------|-----------------|----------|-----------------|----------|
| DN | Kvs  | Connection size | Item no. | Connection size | Item no. |
| 15 | 4.1  | Rp ½            | 1067524  | G ¾             | 1067624  |
| 20 | 7.8  | Rp ¾            | 1067526  | G 1             | 1067626  |
| 25 | 14.1 | Rp 1            | 1067528  | G 1 ¼           | 1067628  |
| 32 | 24.8 | Rp 1 ¼          | 1067530  | G 1 ½           | 1067630  |
| 40 | 32.4 | Rp 1 ½          | 1067532  | G 1 ¾           | 1067632  |
| 50 | 49.8 | Rp 2            | 1067536  | G 2 ¾           | 1067636  |

# Accessories

## HydroPort adapter



With external thread G  $\frac{3}{4}$ .  
For connecting accessories to HydroPort auxiliary valves.  
Also suitable for permanent connection, e.g. for impulse tubes of third-party controllers. This adapter is not required for connecting the impulse tube of the HydroControl D.

Suitable for

All nominal sizes

Item no.

1069601

## Insulation shells



Only for heating systems. Meets the requirements of Appendix 8 to section 69 and 71 (1), line ee) of the German Building Energy Act (GEG). Building material class B2 according to DIN 4102 / E according to EN 13501-1.  
Operating temperature up to 110 °C.

Suitable for

Item no.

DN 15

1069610

DN 20

1069611

DN 25

1069612

DN 32

1069613

DN 40

1069614

DN 50

1069615

## Fittings



Connection set with externally threaded tailpipes.  
Consisting of two tailpipes, unions, nuts and sealing rings.  
Suitable for HydroControl A with external threads.

Size

Suitable for

Item no.

R  $\frac{1}{2}$ 

DN 15

1140792

R  $\frac{3}{4}$ 

DN 20

1140793

R 1

DN 25

1140794

R 1  $\frac{1}{4}$ 

DN 32

1140795

R 1  $\frac{1}{2}$ 

DN 40

1140796

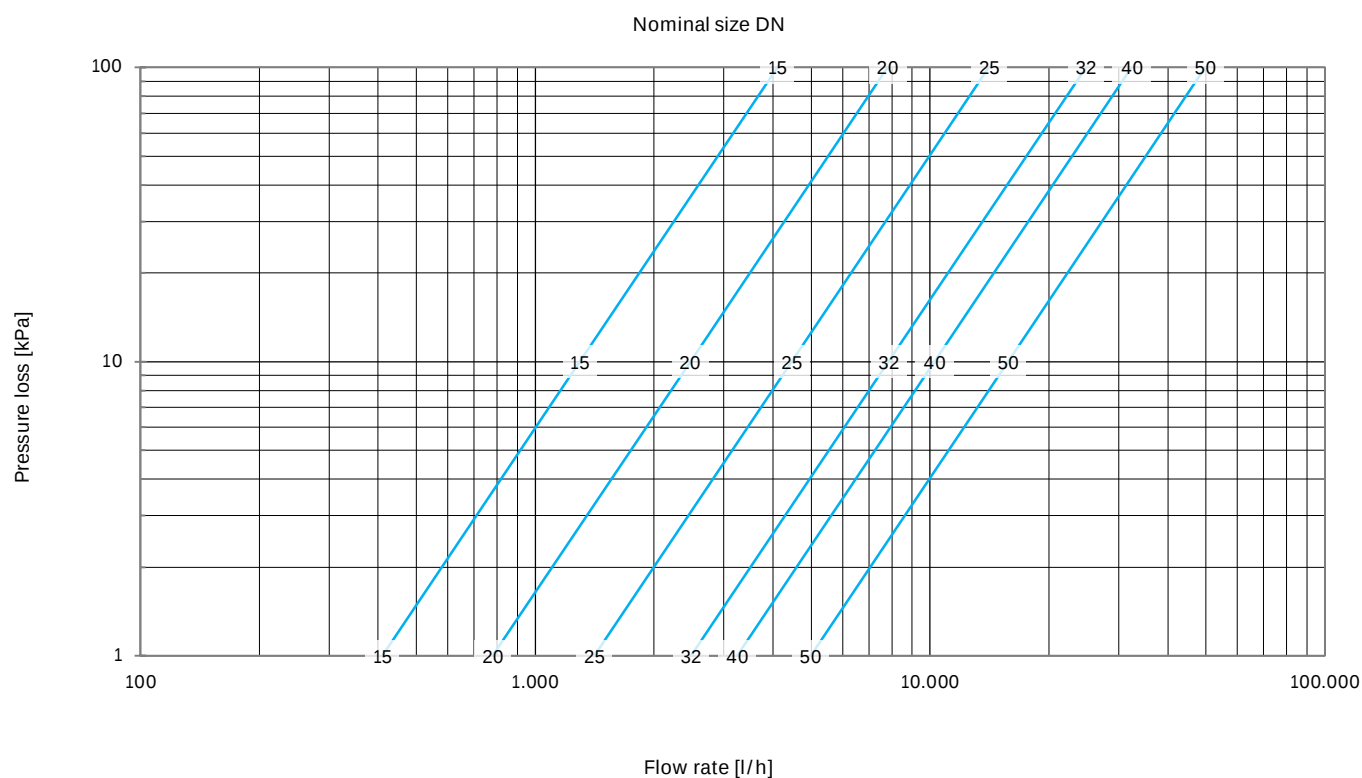
R 2

DN 50

1140797

# Sizing

## Flow Chart



## Kvs values

| DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 |
|-------|-------|-------|-------|-------|-------|
| 4.1   | 7.8   | 14.1  | 24.8  | 32.4  | 49.8  |

Subject to changes • All rights reserved • © 2021 Oventrop GmbH & Co. KG  
EN-03123-106752-DB-V2328 – July 2023