

# HydroControl A

Shutoff valve PN 25/PN 16, DN 15...50



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

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

- Pipeline shutoff
- Impulse tube connection
- Quick connection for HydroControl D differential pressure regulators
- Draining, filling and bleeding

## Features

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

## Technical Data

Nominal sizes	DN 15...50
Versions	Internal threads according to EN 10226 External threads according to ISO 228
Operating temperature	-20...+150 °C
Operating pressure	Internal thread version: max. 25 bar / PN 25 External thread version: max. 16 bar / PN 16
Medium	Heating and cooling water according to VDI 2035 or ONORM 5195 Water-glycol mixtures with a max. glycol content of 50 %
Kvs values	DN 15: 4.1 DN 20: 7.8 DN 25: 14.1 DN 32: 24.8 DN 40: 32.4 DN 50: 49.8

# Product Details

## Functions

### Shutoff

Pipeline shutoff is achieved by turning the handwheel clockwise until it stops. At closed position the pipeline is shutoff tight with no visible leakage.

### HydroPort



Every HydroControl A is equipped with a HydroPort auxiliary valve as standard. The HydroPort allows snap on connection of accessories. The HydroPort is opened by turning anticlockwise. A quarter turn is sufficient to measure the pressure, a full turn is sufficient to drain and fill.

#### DRAINING, FILLING AND BLEEDING

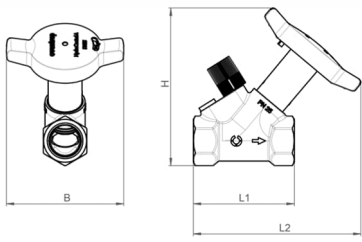
Draining, filling and bleeding is done with the HydroPort adapter (item no. 1069601).

#### IMPULSE TUBE CONNECTION

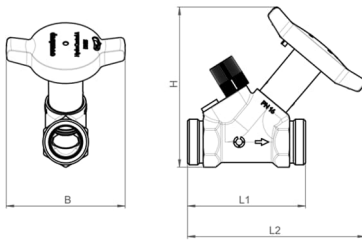
The HydroPort enables a quick, safe and secure connection of the impulse tube of a HydroControl D differential pressure regulator. Impulse tubes of other differential pressure regulators can be connected with the HydroPort adapter and suitable connection pieces.

## Dimensions

### HydroControl A with internal threads according to EN 10226 (BSP)

	DN	Connection	B [mm]	L1 [mm]	L2 [mm]	H [mm]	Weight [kg]
	15	Rp 1/2	109	72	142	129	0.57
	20	Rp 3/4	109	84	152	136	0.67
	25	Rp 1	109	98	160	147	0.99
	32	Rp 1 1/4	109	116	172	157	1.44
	40	Rp 1 1/2	109	124	177	164	1.80
	50	Rp 2	109	155	195	184	3.10

### HydroControl A with external threads according to ISO 228 (BSPP)

	DN	Connection	B [mm]	L1 [mm]	L2 [mm]	H [mm]	Weight [kg]
	15	G 3/4	109	88	149	129	0.57
	20	G 1	109	93	154	136	0.67
	25	G 1 1/4	109	109	164	147	0.99
	32	G 1 1/2	109	134	182	157	1.44
	40	G 1 3/4	109	144	187	164	1.80
	50	G 2 1/2	109	166	204	184	3.10

# Selection

## Item Numbers



Internal threads according to EN 10226



External threads according to ISO 228

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

## Accessories

### HydroPort adapter



Suitable for

All nominal sizes

Item no.

1069601

### Wire seal kit

10-fold, consisting of seal and sealing wire



Suitable for

All nominal sizes

Item no.

1089091

### Thermal insulation shells



Suitable for

DN 15

Item no.

1069610

DN 20

1069611

DN 25

1069612

DN 32

1069613

DN 40

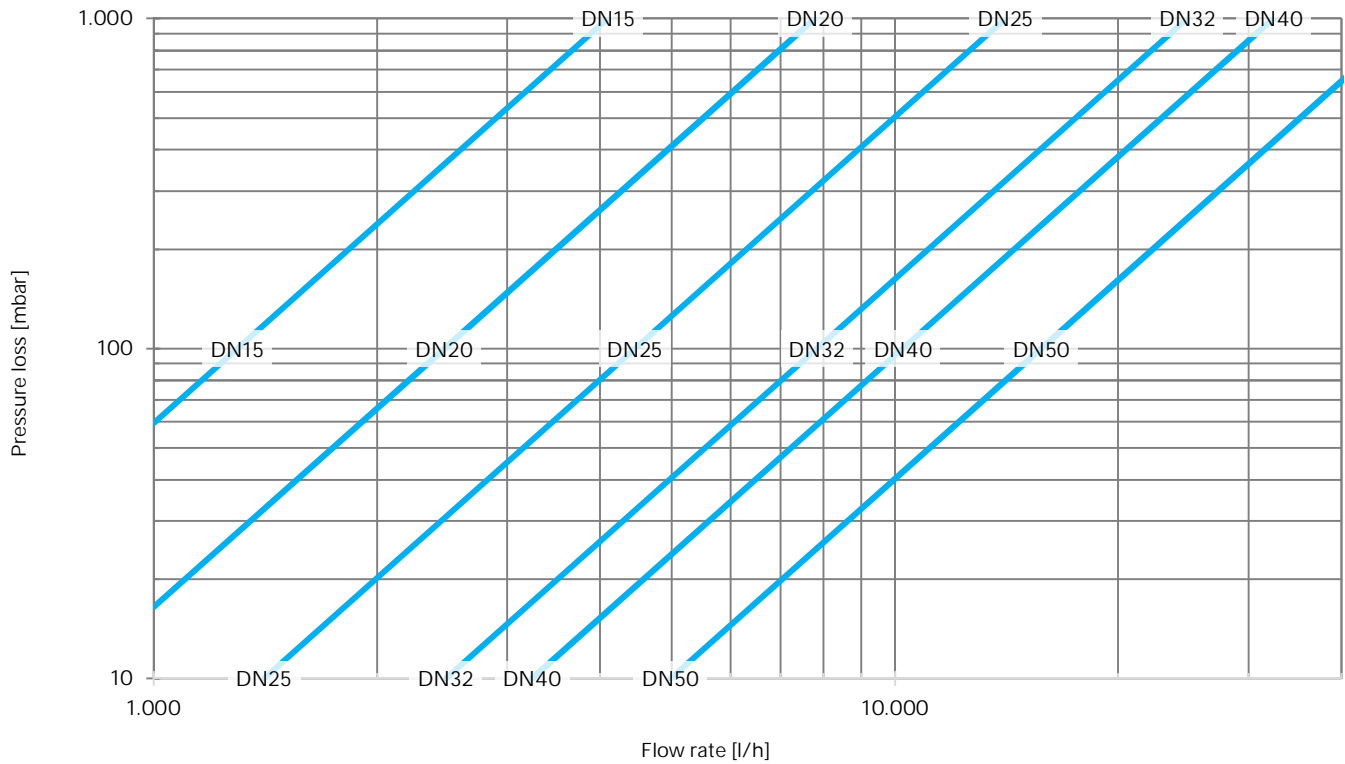
1069614

DN 50

1069615

# 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

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