

# SVTR ecQ

Double regulating and commissioning valve  
PN 25, DN 20...50



Oventrop double regulating and commissioning valves "SVTR ecQ" are installed in hot water central heating and cooling water A/C systems with a closed water circuit and serve to achieve a hydronic balancing between the various circuits of the system.

Oventrop double regulating and commissioning valves "SVTR ecQ" can be adjusted by handwheel. In the meantime, the test point allows connection to the OV-DMC3 measuring sensor, in order to achieve precise flow regulation.

## Function

- Open and close valve
- Accurate flow regulation

## Features

- + High flow rate
- + Compact structure, small installation space
- + Presetting
- + Precise scale display on the handwheel for accurate regulation

## Technical data

<b>Size</b>	DN 20 to DN 50
<b>standard</b>	Internal threads to GB / T 7307
<b>Operating temperature</b>	-10...95 °C
<b>Max. operating pressure</b>	max. 25 bar / PN 25
<b>Medium</b>	Non-aggressive fluids (e.g. water and suitable water and glycol mixtures according to VDI 2035). Not suitable for steam or oily and aggressive fluids.
<b>Kvs value</b>	DN 20: 7.3 DN 25: 9.7 DN 32: 15.2 DN 40: 20.6 DN 50: 33.0

# Product Details

## Structure

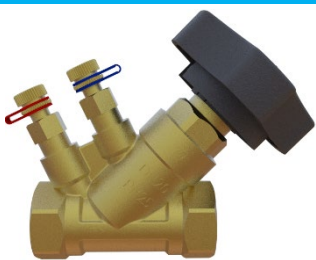
The balance is achieved by setting the valve with the handwheel. The calculated flow rate or pressure loss for each individual pipe can be set centrally and be regulated precisely.

The required setting values can be obtained from the flow charts. The flow charts are valid for the installation of the double regulating and commissioning valve in the supply or the return pipe provided the direction of flow conforms to the arrow on the valve body. All intermediate values are infinitely adjustable.

The Oventrop double regulating and commissioning valves have two threaded ports which are equipped with the pressure test points for measuring the differential pressure.

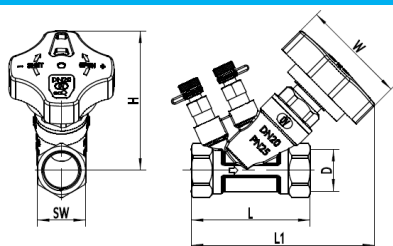
Turn handwheel to adjust the setting value, the selected setting can be read off directly.

## Material



Item	Material
Body	HPb59-1
Cover	HPb59-1
Stem	HPb59-1
Disc	HPb59-1
Sealing	FKM
Handwheel	PA66+30%GF

## Dimensions



DN	L	D	H [mm]	W [mm]	L1 [mm]	SW [mm]	Weight [g]
20	79	Rp ¾	87.5	70	122	32	650
25	89	Rp 1	90	70	130	39	785
32	105	Rp 1 ¼	100	70	139	49.5	1172
40	120	Rp 1 ½	107	70	151	55	1525
50	140	Rp 2	117	70	157	68	2135

## Item Numbers



DN	Connection	Kvs	Item No.
20	Rp ¾	7.3	A106010006
25	Rp 1	9.7	A106010008
32	Rp 1 ¼	15.2	A106010010
40	Rp 1 ½	20.6	A106010012
50	Rp 2	33.0	A106010016

# Instruction for installation, etc.

## General statement

Oventrop double regulating and commissioning valves "SVTR ecQ" are installed in hot water central heating and cooling water A/C systems with a closed water circuit and serve to achieve a hydronic balancing between the various circuits of the system.

Any other use of the valve other than that described above is non-conforming. The manufacturer and authorized seller shall not be liable for any damage caused by improper operation or use.

## Transport inspection

- During transportation, the boxes containing the valve must not be crushed by heavy objects.
- Upon receipt check delivery for any damages caused during transit. Any damage must be reported immediately upon receipt.

## Storage

Storage of double regulating and commissioning valves must comply with the following conditions:

- Do not store in the open air, should be stored in a dry, dust-free environment and avoid direct sunlight.
- Do not expose to aggressive fluids or heat sources.
- Ensure that the valve is not exposed to severe vibration.

## Installation

Before installing the valve, the pipework has to be flushed thoroughly. Installation is possible in any position (horizontal, oblique or vertical, in ascending or descending sections). It is important to note that the direction of flow must conform to the arrow on the valve body and that the valve must be installed with a minimum of  $L = 3 \times \phi$  of straight pipe in the upstream side and with  $L = 2 \times \phi$  in the downstream pipe. The double regulating and commissioning valve can be installed in either the supply or the return pipe.

- After the valve is installed, make sure that the valve handle and the pressure measurement connection are oriented in a direction that is easy to operate. Do not use any lubricant or oil when installing the valve as these may destroy the valve seals. If necessary, all dirt particles and lubricant or oil residues must be removed from the pipework by flushing the latter.
- A strainer has to be installed in front of the valve.
- Safeguard from external forces (e.g. impacts, or vibrations)

Once installation is completed, check all installation points for leaks.

## Packaging

All packaging materials must be disposed of in an environmentally friendly manner.

## Maintenance

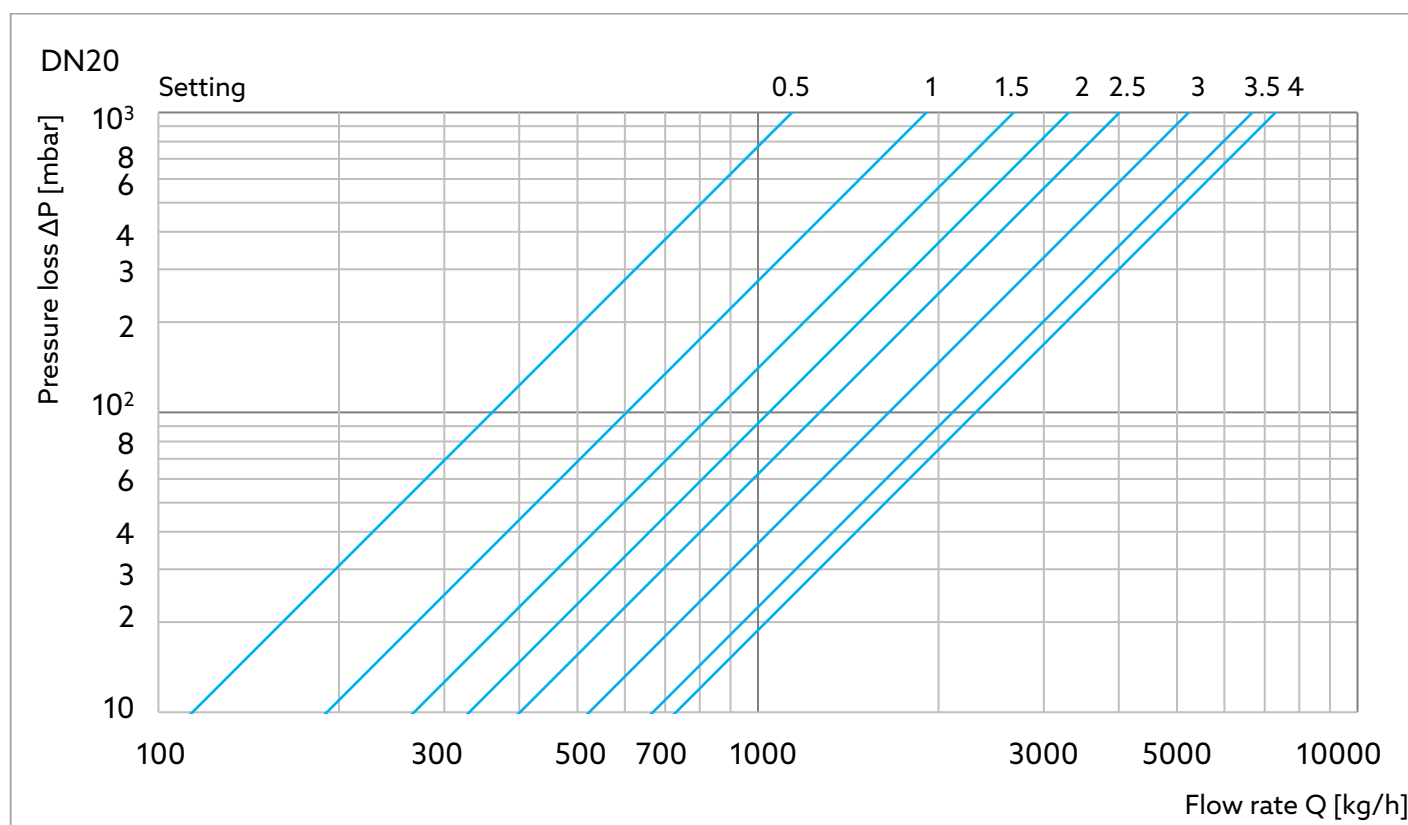
The valve is maintenance-free.

# Flow charts

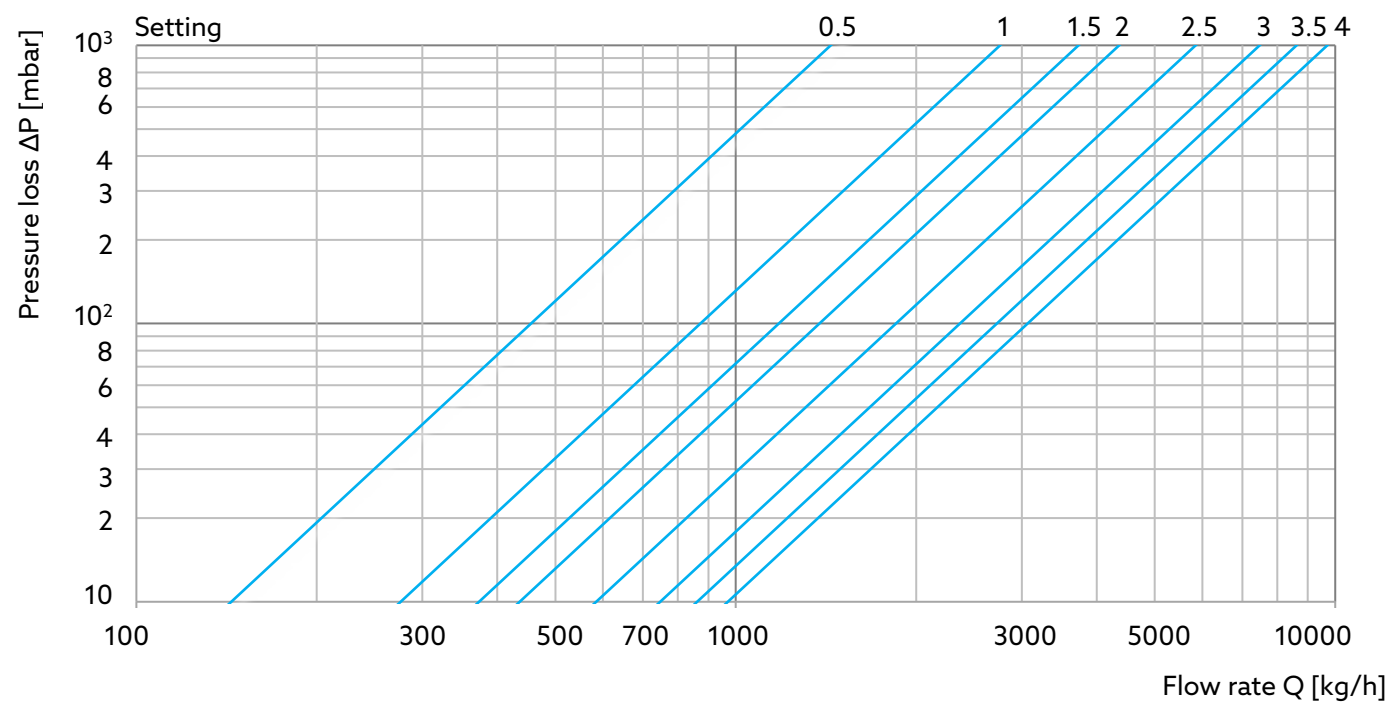
## Table of kv values

V	DN20	DN25	DN32	DN40	DN50
0.0	0	0	0	0	0
0.5	1.14	1.44	1.89	2.11	2.94
1.0	1.91	2.76	3.58	3.54	5.11
1.5	2.67	3.73	4.57	5.25	7.38
2.0	3.30	4.36	6.91	9.99	14.31
2.5	4.01	5.85	9.56	13.46	20.05
3.0	5.23	7.48	11.69	15.76	24.33
3.5	6.68	8.62	13.21	18.31	29.11
4.0 (Kvs)	7.3	9.70	15.20	20.60	33.00

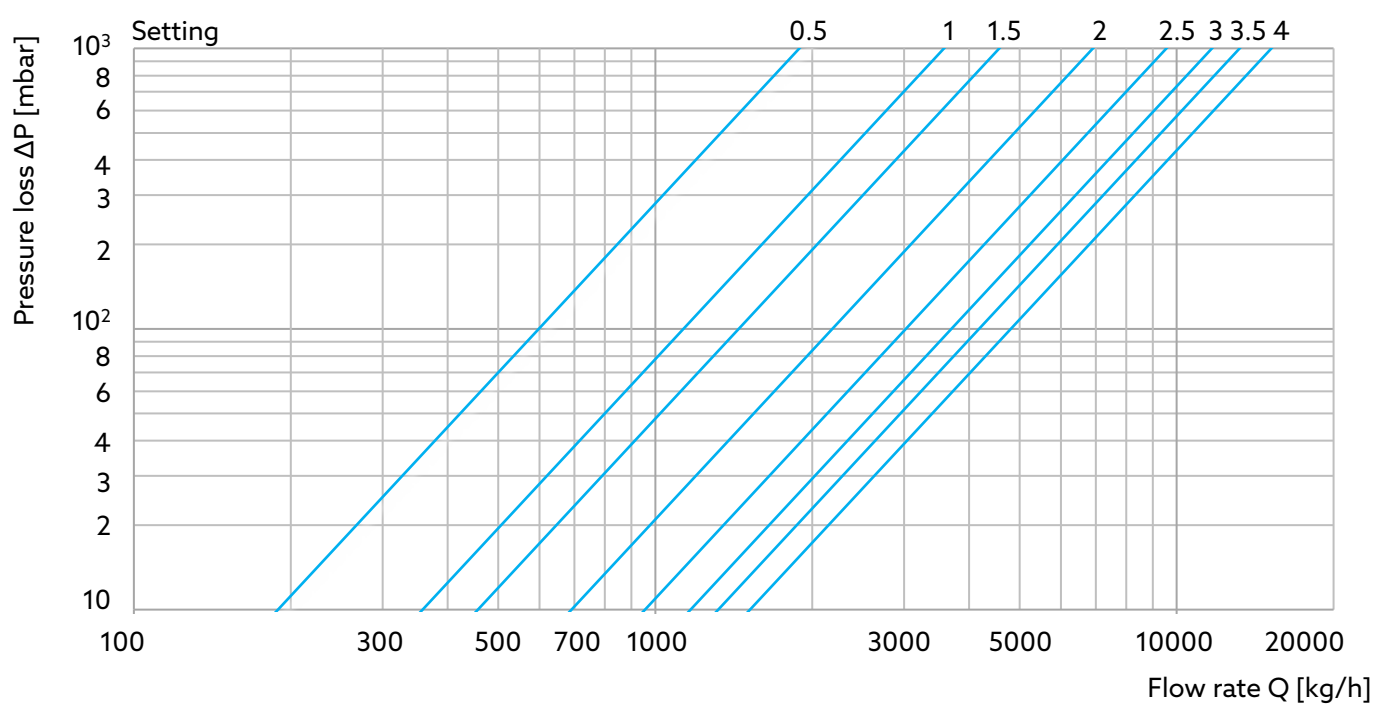
## Flow rate - pressure loss charts



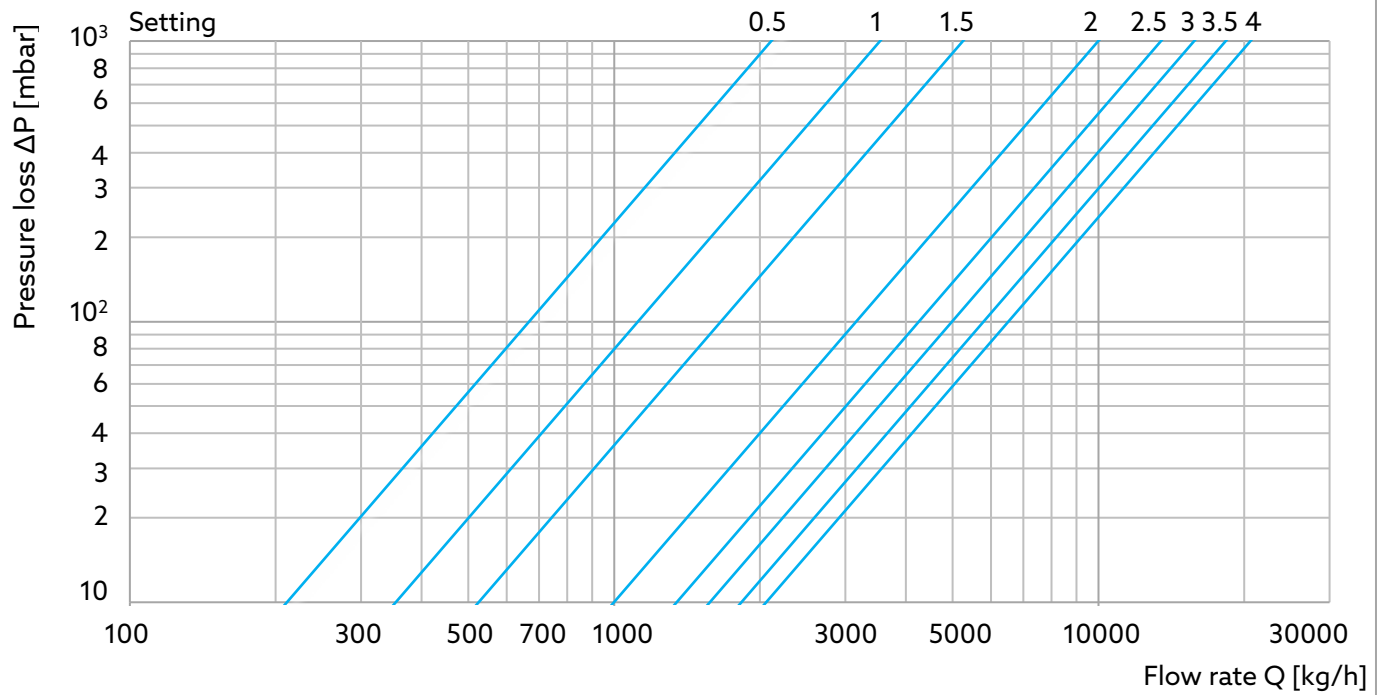
## DN25



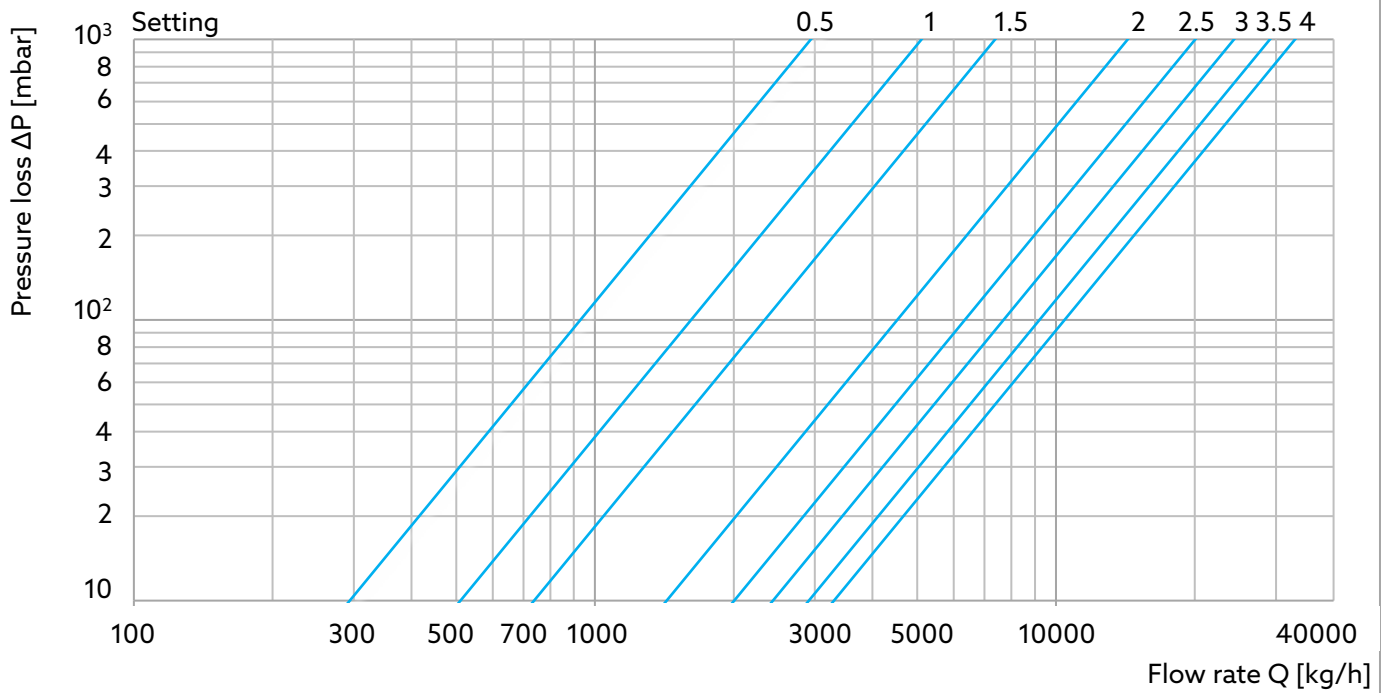
## DN32



## DN40



## DN50



A10601000655