

## STV-ROT, -MA, -MAC, Balancing valve Refurbishment



- High accuracy
- Easy to adjust
- Quick to deploy
- Dimension: DN 10-50
- Temperature: -20°C to +120°C
- Pressure class: PN 20

# Description *STV (ROT, MA, MAC)*

## Area of use

The manual balancing valves STV (-ROT, MA, MAC) is used to balance the flow in heating-and cooling systems.

STV-ROT is adapted for renovation.

STV-MA is adapted for thin-walled steel pipes.

STV-MAC is adapted for copper pipes.

## Dimensioning

STV (-ROT, MA, MAC) are sized with nomogram, handwheel or online applications on smartphones or on our website..

STV (-ROT, MA, MAC) shall be dimensioned at 50-80% of maximum flow for the design flow.

Min recommended differential pressure is 2 kPa (0,29 psi).

## Setting

The hand wheel has digital reading which shows whole turns and tenth of a turn.

The hand wheel setting corresponds to Kv. The setting is shown in table format or can be calculated by using software on the website.

Any setting can be locked to avoid tampering with the setting of the balancing value. An Allen key of 3 mm is used on the inner spindle to lock the setting. When the setting is locked the valve cannot be opened to a larger value but it can be closed for maintenance of the connected circuit.

## Measuring

The pressure test ports are opened by unscrewing the lids.

Differential pressure can be measured using a balancing instrument.

## Draining

STV is equipped with a drain.

The drain is opened with a screwdriver

## Mounting

STV-ROT is mounted with internal steel pipe conn

STV-MA is pressed with a pressing tool.

STV-MAC is pressed with a pressing tool.

Recommended pressing tool:

Geberit Pressbackar



# Technical data *STV (ROT, MA, MAC)*

## Pressure class

PN 20

## Max temperature

120°C

## Min temperature

-20°C

## Max closing pressure

10 bar

## Min closing pressure

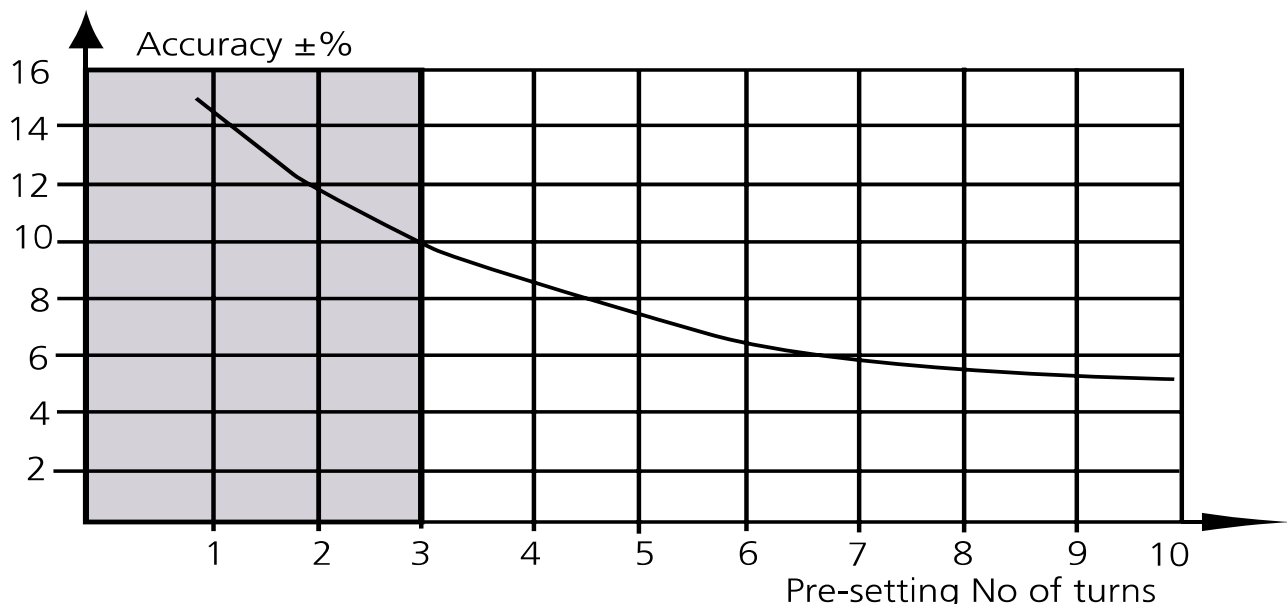
2 kPa

## Material

Dezincification resistance brass

Gaskets EPDM

## Noggrannhet



# Technical data *STV (ROT, MA, MAC)*

## Capacity

### STV-ROT with MMA's steelpipe fittings

Number of turns	DN 15/10	DN 20/15	DN 25/20	DN 32/25
1	0,11	0,18	0,34	0,48
2	0,18	0,32	0,60	0,77
3	0,27	0,45	0,83	1,03
4	0,41	0,62	1,13	1,50
5	0,65	0,86	1,55	2,30
6	1,02	1,17	2,10	3,60
7	1,78	1,62	2,90	5,00
8	2,30	2,55	3,85	6,50
9	2,60	3,15	4,50	7,90
10	2,80	3,55	5,10	8,80

OBS!

The dimension indicates connection/valve size.  
ex. STV- ROT 15/10  
connection DN 15  
Valve size DN 10

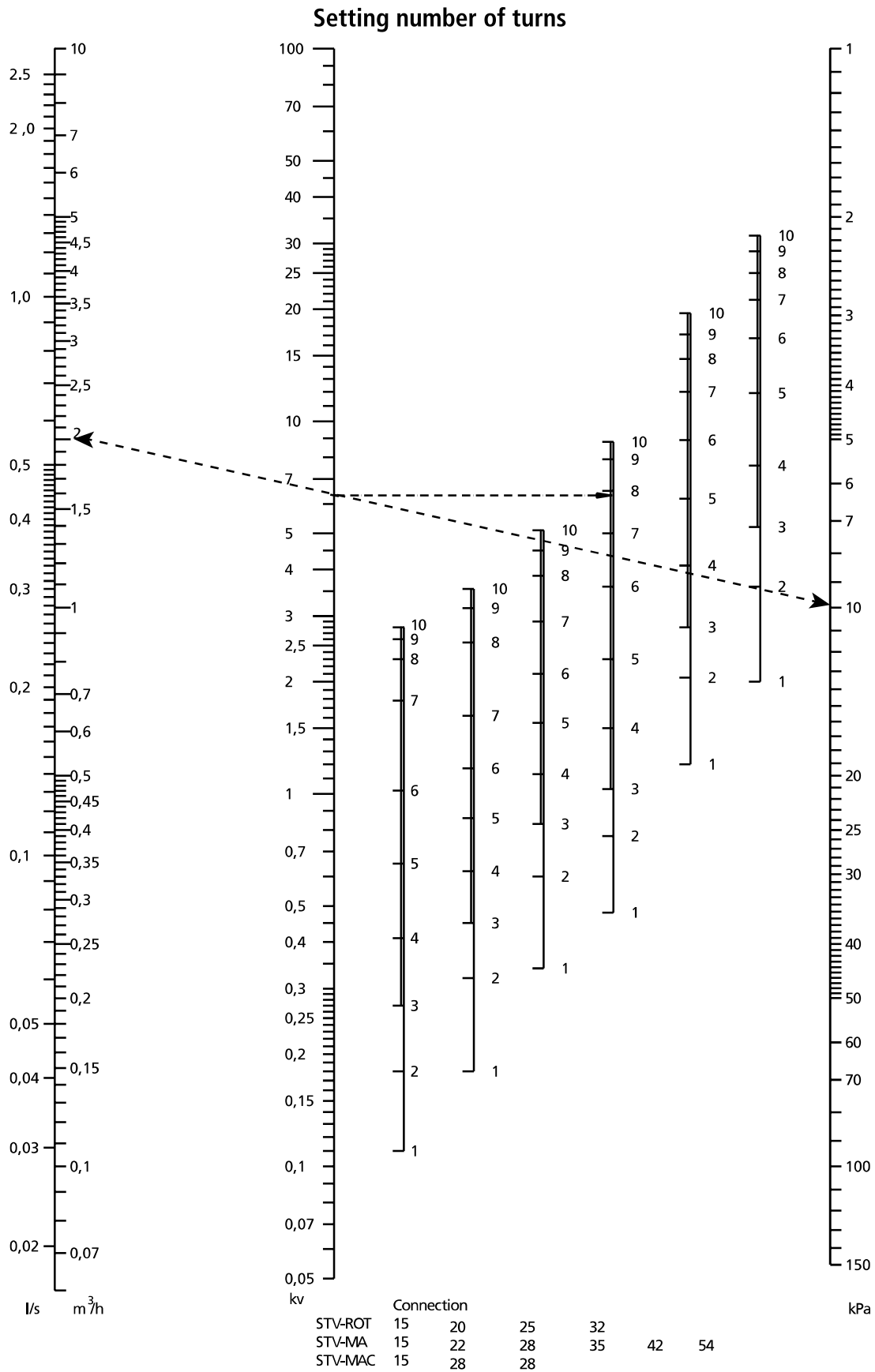
### STV-MA with galvanized thin-walled steel pipes

Number of turns	15/10	22/15	28/20	35/25	42/40	54/50
1	0,11	0,18	0,34	0,48	1,20	2,00
2	0,18	0,32	0,60	0,77	2,05	3,60
3	0,27	0,45	0,83	1,03	2,80	5,20
4	0,41	0,62	1,13	1,50	4,10	7,60
5	0,65	0,86	1,55	2,30	6,20	11,90
6	1,02	1,17	2,10	3,60	8,90	16,70
7	1,78	1,62	2,90	5,00	12,00	21,20
8	2,30	2,55	3,85	6,50	14,70	25,00
9	2,60	3,15	4,50	7,90	17,10	28,60
10	2,80	3,55	5,10	8,80	19,50	31,50

### STV-MAC for copper pipes

Number of turns	CU 15/10	CU 22/15	CU 28/20
1	0,11	0,18	0,34
2	0,18	0,32	0,60
3	0,27	0,45	0,83
4	0,41	0,62	1,13
5	0,65	0,86	1,55
6	1,02	1,17	2,10
7	1,78	1,62	2,90
8	2,30	2,55	3,85
9	2,60	3,15	4,50
10	2,80	3,55	5,10

# Setting *STV (ROT, MA, MAC)*



# Product information *STV (ROT, MA, MAC)*

## Ordering codes

RSK - number	Article number	Designation	Description
489 27 42	9001283	STV ROT 15/10	Balancing valve threaded with drain, clamping ring
489 27 43	9001284	STV ROT 20/15	Balancing valve threaded with drain, clamping ring
489 27 44	9001285	STV ROT 25/20	Balancing valve threaded with drain, clamping ring
489 27 45	9001286	STV ROT 32/25	Balancing valve threaded with drain, clamping ring
489 27 46	9001287	STV MA 15/10	Balancing valve threaded without drain, press joint
489 27 47	9001288	STV MA 22/15	Balancing valve threaded without drain, press joint
489 27 48	9001289	STV MA 28/20	Balancing valve threaded without drain, press joint
489 27 49	9001290	STV MA 35/25	Balancing valve threaded without drain, press joint
489 27 50	9001291	STV MA 42/40	Balancing valve threaded without drain, press joint
489 27 51	9001292	STV MA 54/50	Balancing valve threaded without drain, press joint
489 27 52	9001293	STV MAC 15/10	Balancing valve threaded without drain, press joint
489 27 53	9001294	STV MAC 22/15	Balancing valve threaded without drain, press joint
489 27 54	9001295	STV MAC 28/20	Balancing valve threaded without drain, press joint