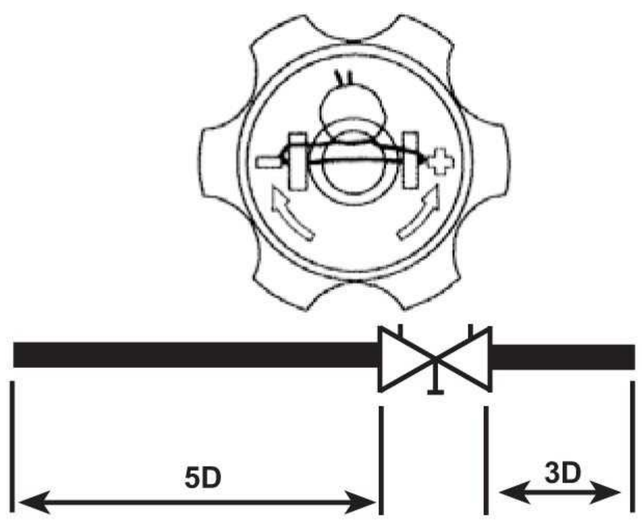
Balancing valve STV 65-150

Areas of Use

The balancing valve STV is used to adjust and balance the flow in heating and cooling systems. Eamples of usage areas include in mains, paths, branch lines, shunt groups and cooling baffles.



Description

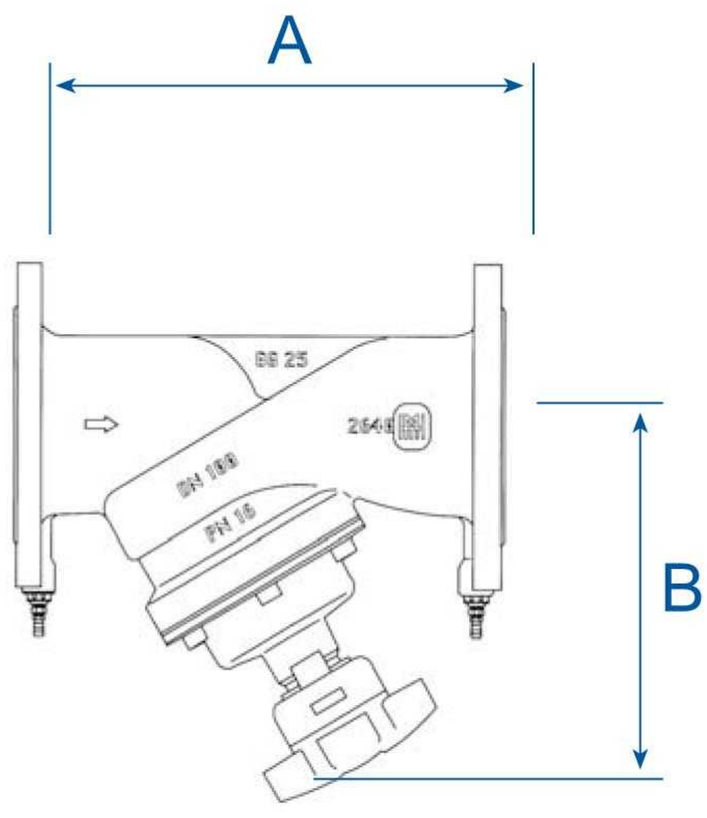
STV is a flanged valve. The valve is equipped with self-sealing measuring sockets placed on the flanges
of the valve. The wheel is equipped with a digital display. When the value of the valve is set, it is locked. This is done by screwing down the inner spindel to its end position with a 4 mm Allen key. After locking, the valve can be closed but cannot however be opened at a higher kv value than the one
set. The wheel can be sealed according to the figure.
Installation
To avoid turbulence which can affect the measuring accuracy, the valve should not be assembled close to
bends, branch lines and other valves directly before or after the valve according to the figure. The valve must be assembled with the flow in the direction of
the arrow to achieve the correct measuring results.

Design

	Dim	A	B	Weight/kg
STV 65	65	290	225	14
STV 80	80	310	240	20
STV 100	100	350	260	26
STV 125	125	400	290	40
STV 150	150	480	300	50

Technical data

Dmention	65-150
Working temp	-15^{0}+120^{0}C
Pressure class	PN16
Material	Grey (cast) iron SS0125-02, brass and red brass Seat washer PTFE Gaskets EPDM



Ordering Codes

Part No.	Type	Description
225701 225801 225901 2251001 2251101	STV 65 STV 80 STV 100 STV 125 STV 150	Flanged with a measuring socket.

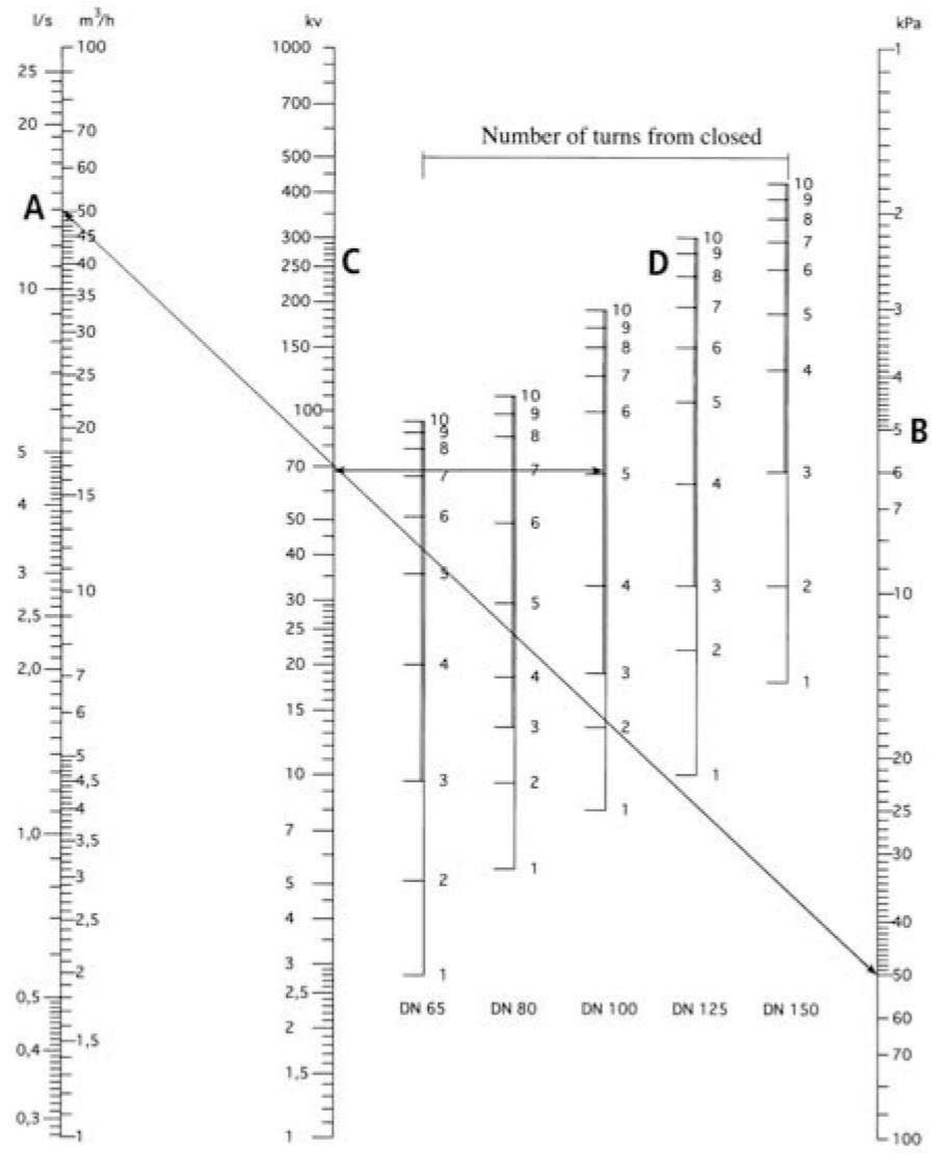
We reserve the right to alter information without notice.

All measurements in mm

Balancing valve STV 65-150

Pre-setting

By means of the wheel the valve is set at the desired flow or kv-value according to the diagram. For a larger diagram see page 4:50. When the value of the valve is set, it is locked. This is done by screwing down the inner spindle to its end position with a 4 mm Allen key. After locking, the valve can still be closed but cannot however be opened at a higher kv value than the one set.



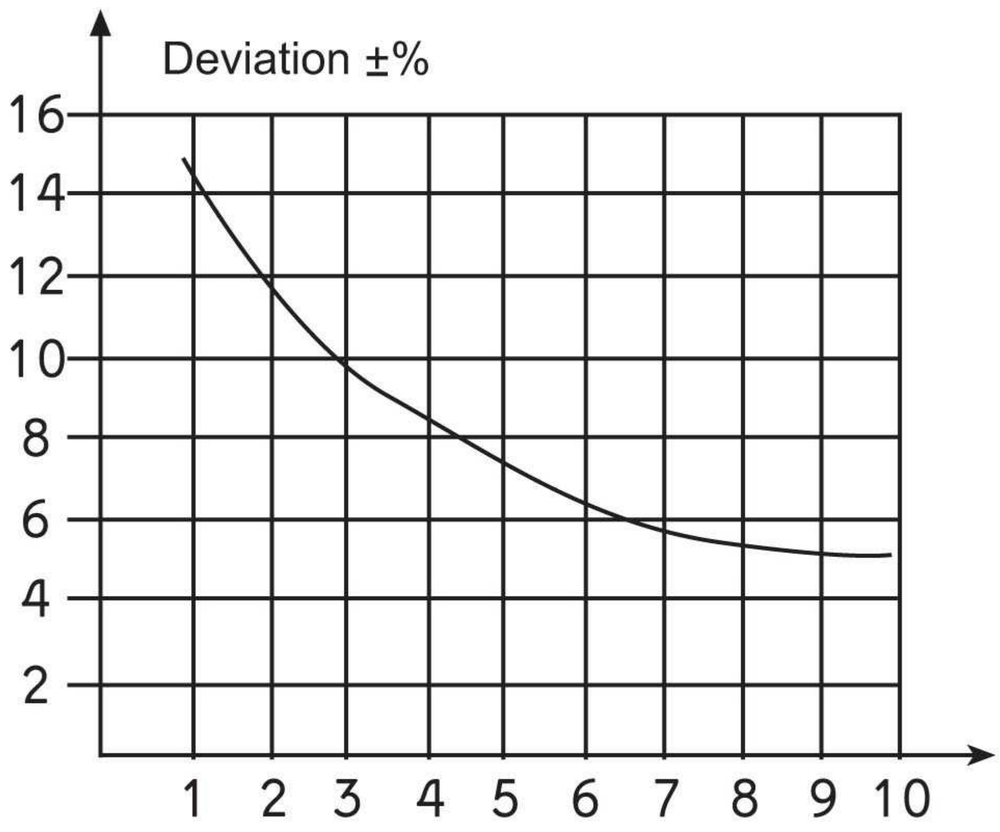
k_V-value

No. of turns	DN 65	DN 80	DN 100	DN 125	DN 150
1	2,8	5,5	8,0	10,0	18,0
2	5,1	9,5	13,5	22,0	33,0
3	9,6	13,5	19,0	33,0	68,0
4	20,0	18,5	33,0	63,0	130,0
5	35,5	29,5	67,0	106,0	186,0
6	51,0	49,0	99,5	150,0	246,0
7	66,0	68,5	125,0	194,0	294,0
8	78,5	85,0	150,0	236,0	340,0
9	87,0	98,0	170,0	273,0	385,0
10	9,35	110,0	190,0	301,0	425,0

Flow measuring

The measuring instrument is connected to the measuring socket of the valve. The instrument is pre-programmed with the characteristics of all our adjustment valves and proving rings.
Other valve manufacturers''92 data is also included in
the instrument. Values for pressure drop and flow can be read directly on the display.
If you do not have access to the MMA instrument some other brands can be used. The flow can then be read from the pressure drop diagram found in the operating instructions.

Accuracy
Accuracy is greatest when the valve is fully open. The smaller the opening, the importance of manufacturing tolerances increases, as variations in measurements are then greater percentage-wise. It is better to choose a valve that has a pre-set value above three turns.



All measurements in mm