

Balancing Valve STV 65 - 150

Areas of use

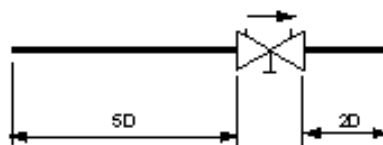
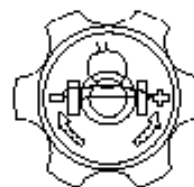
The balancing valve STV is used to adjust and balance the flow in heating and cooling systems. Examples of usage areas include in mains, paths, branch lines, shunt groups and cooling baffles.

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 spindle 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.



Technical data

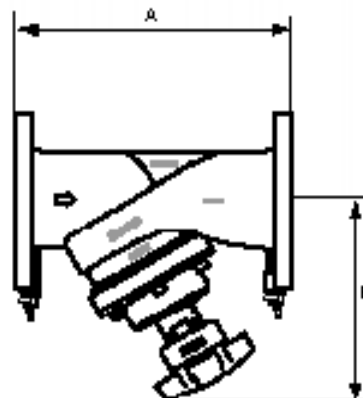
Dimension	65-150
Max working temp	120 °C
Pressure class	PN16
Material	Grey (cast) iron SS0125-02, brass and red brass Seat washer PTFE Gaskets EPDM

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

Ordering code

Part No.	Type	Description
2250702	STV 65	Flanged with measuring socket
2250802	STV 80	
2250902	STV 100	
2251002	STV 125	
2251102	STV 150	



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Pre-setting

By means of the wheel the valve is set at the desired flow or kv-value according to the diagram. For diagram see last page of this document. 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.

kv-value

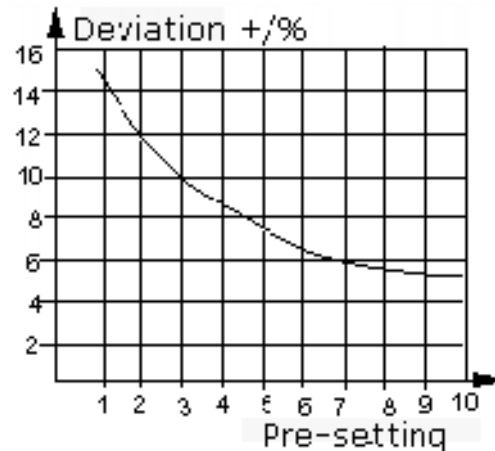
No. of turns	DN65	DN80	DN100	DN125	DN150
1	2,8	5,5	8,0	10,0	18,0
2	5,1	9,5	13,5	22,0	33,0
3	9,6	13,5	19,0	33,0	68,0
4	20,0	18,5	33,0	63,0	130,0
5	35,5	29,5	67,0	106,0	186,0
6	51,0	49,0	99,5	150,0	246,0
7	66,0	68,5	125,0	194,0	294,0
8	78,5	85,0	150,0	236,0	340,0
9	87,0	98,0	170,0	273,0	385,0
10	93,5	110,0	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' 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.



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