

STV(E) DN 65-400, Balancing valve



- High accuracy
- Easy to adjust
- Quick to commission
- Dimension: DN 65-400
- Temperature: -10°C to +120°C
- Pressure class: PN 16

Description *STV(E) DN 65-400*

Application

The manual balancing valve STV(E) is optimized for use in heating- and cooling systems.

Sizing

STV(E) are sized with nomogram, handwheel or online Applications on smartphones or on our website.

STV(E) shall be dimensioned at 50-80 % of maximum flow for the design flow.

Minimum 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 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.

On STV DN 65-150 an Allen key of 6 mm is used on the inner spindle to lock the setting.

On STV(E) DN 200-400 the key is enclosed.

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.

Mounting

On STV 65-150 the flanged is according to SS-EN 1092-2 and ISO 7005-2.

Mounting direction is clearly shown with an arrow on STV(E)

The flanged on STV(E) is according to EN 1092-2.

CE

Correspond to PED 2014/68/EU

Pressure compensated valve

STV DN 80-150 has a pressure compensated valve for easy adjustment of the presetting

Technical data *STV(E) DN 65-400*

Pressure class

PN 16

Max temperature

120°C

Min temperature

-10°C

Max closing pressure

200 kPa

Min pressure drop

2 kPa

Material

Cast iron

Surface

DN 65-150, Electrolytic zinc plating

Seals EPDM/NBR

DN 200-400, Electrolytic zinc plating

Capacity

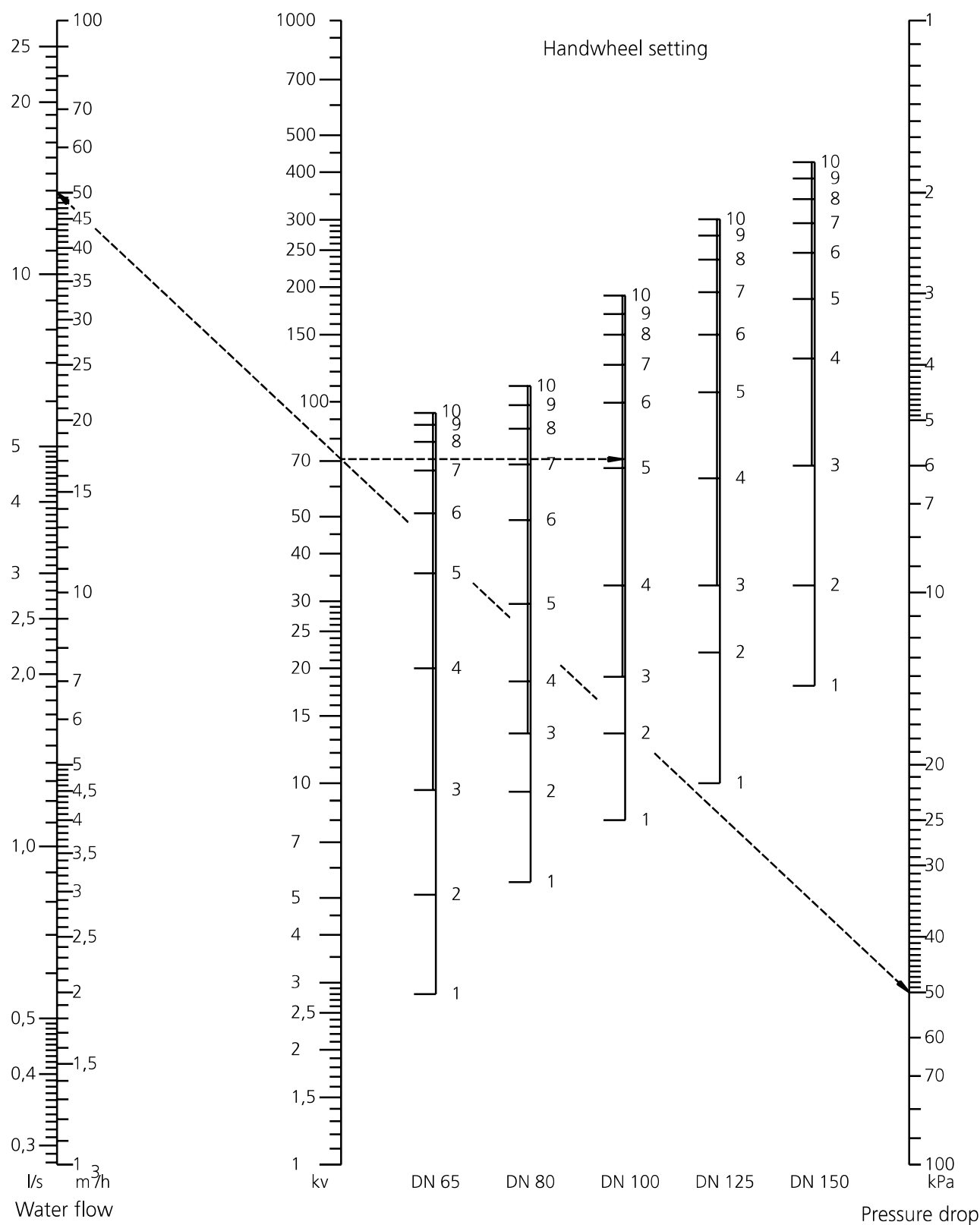
No. of turns	DN 65	DN 80	DN 100	DN 125	DN 150	No. of turns	DN 200	DN 250	DN 300
1	2,8	5,5	8,0	10,0	18,0	0,5	27,5	43,5	44,9
2	5,1	9,5	13,5	22,0	33,0	1	38,6	62,3	57,1
3	9,6	13,5	19,0	33,0	68,0	1,5	45,6	73,1	72,2
4	20,0	18,5	33,0	63,0	130,0	2	54,6	87,3	89,8
5	35,5	29,5	67,0	106,0	186,0	2,5	71,2	115,8	110,2
6	51,0	49,0	99,5	150,0	246,0	3	99,9	163,9	140,7
7	66,0	68,5	125,0	194,0	294,0	3,5	148,6	239,2	202,0
8	78,5	85,0	150,0	236,0	340,0	4	216,2	345,3	331,7
9	87,0	98,0	170,0	273,0	385,0	4,5	283,9	451,4	500,2
10	93,5	110,0	190,0	301,0	425,0	5	341,2	543,3	634,1
						5,5	387,7	622,0	733,2
						6	430,1	694,0	825,1
						6,5	471,7	762,5	922,9
						7	507,6	823,7	1017,8
						7,5	535,2	876,3	1100,0
						8	560,8	925,3	1169,7
						8,5	590,0	974,4	1229,7
						9	619,3	1022,4	1285,1
						9,5	644,8	1067,8	1339,6
						10	667,2	1110,2	1394,1
						10,5	688,4	1150,1	1448,9
						11	710,0	1187,5	1504,1



MMA
BY PURMO

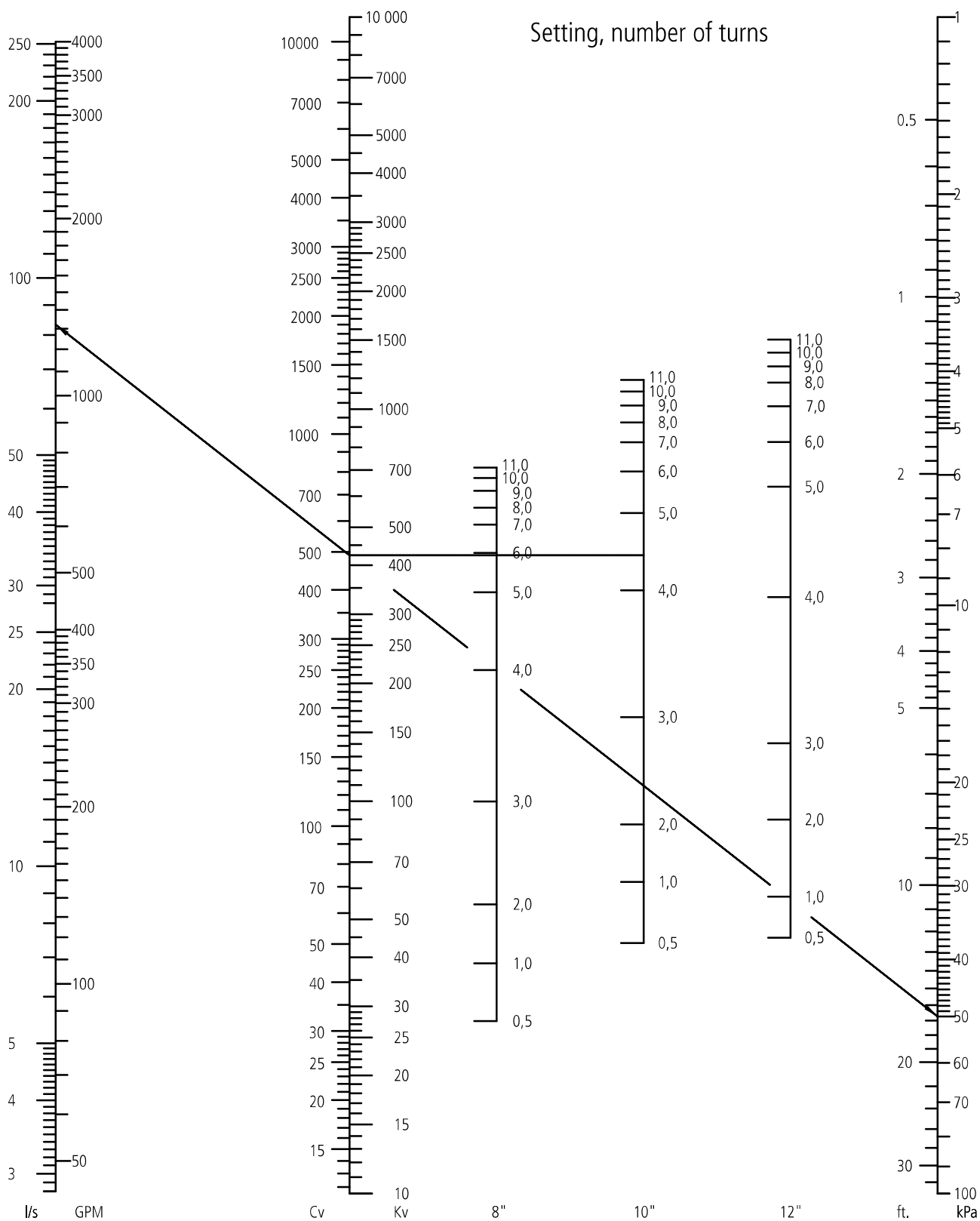
Setting *STV(E) DN 65-300*

DN 65-150



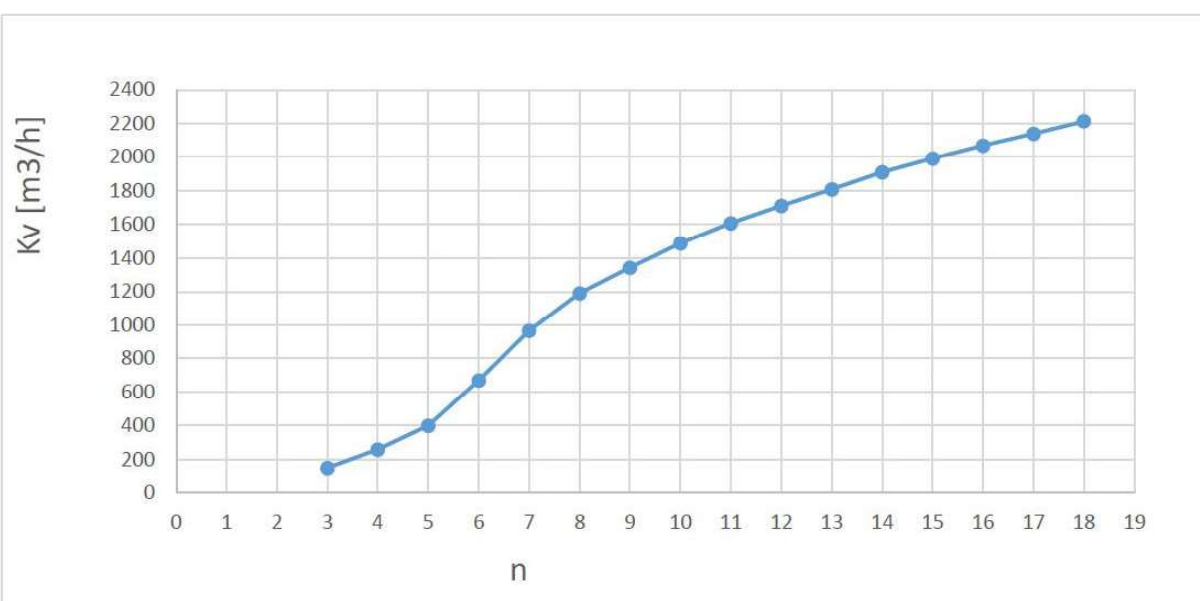
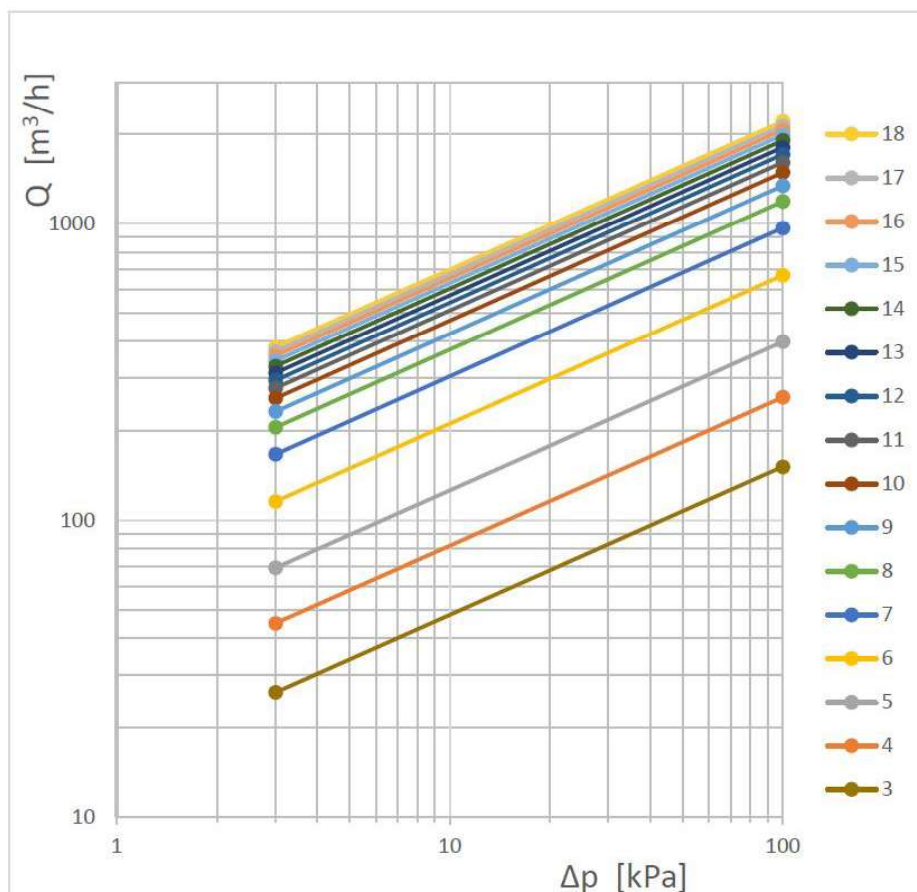
Setting *STV(E) DN 65-300*

DN 200-300



Setting *STV(E) DN 350*

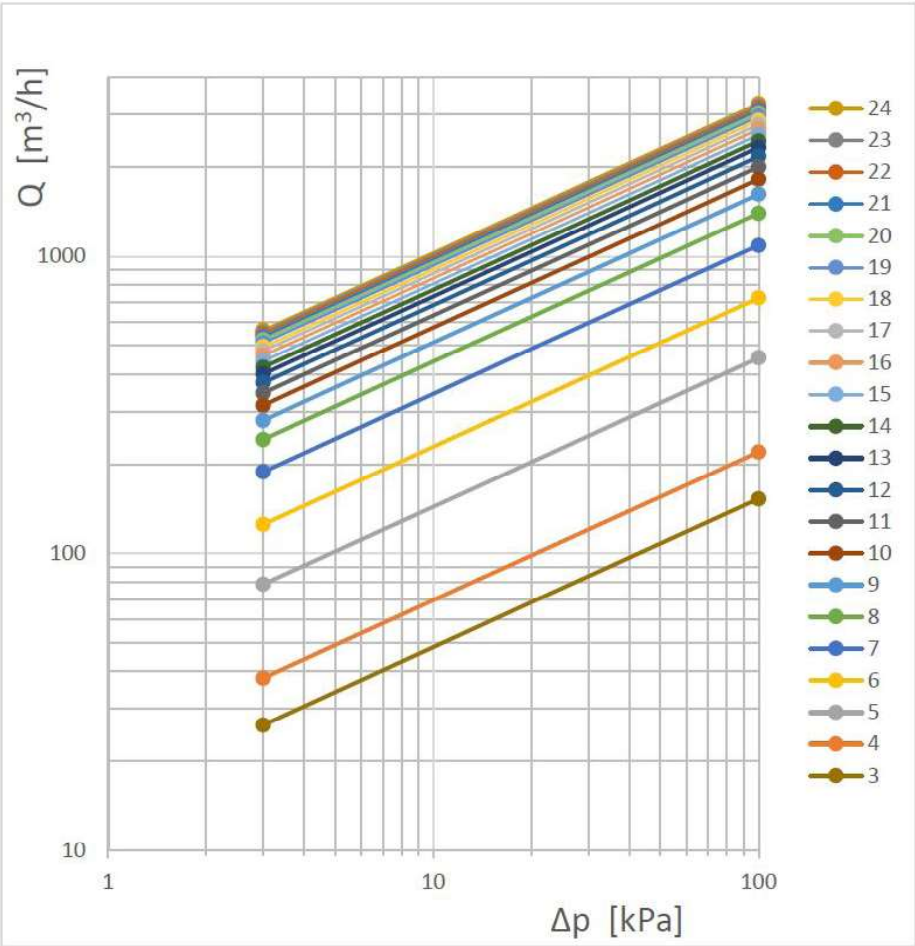
DN 350



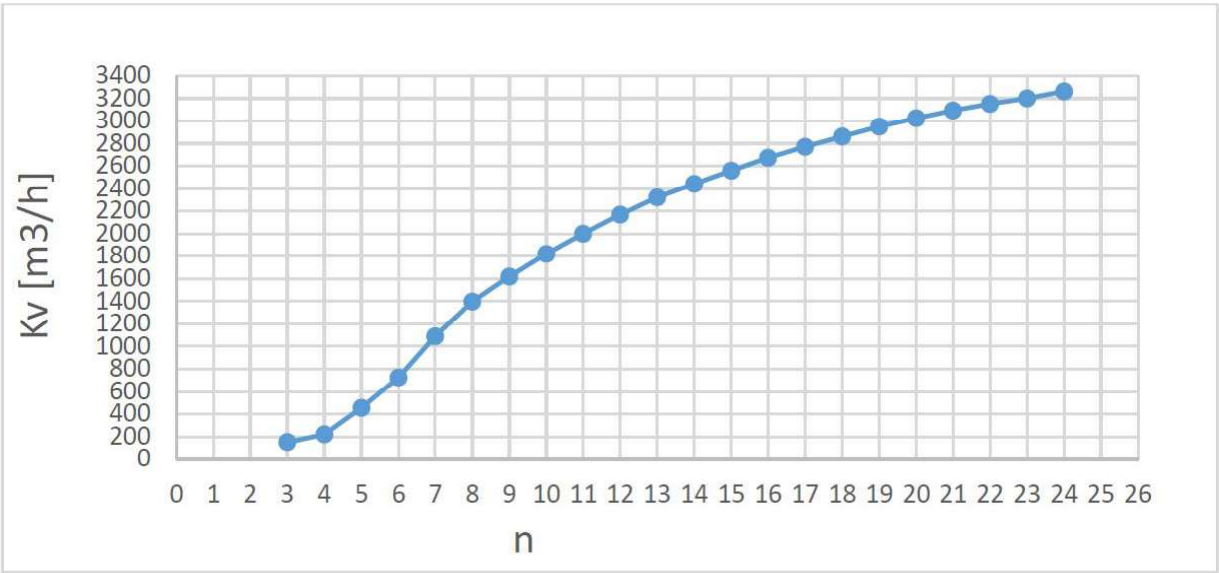
Setting *STV(E) DN 400*



DN 400



Number of DN 400 turns	Kv m3/h
3	153,1
4	220,0
5	455,2
6	724,4
7	1090,1
8	1398,3
9	1620,0
10	1820,3
11	2000,1
12	2168,4
13	2320,2
14	2440,2
15	2560,0
16	2672,3
17	2770,1
18	2860,0
19	2950,3
20	3023,1
21	3090,2
22	3150,4
23	3200,0
24	3262,2



Product Information *STV(E) DN 65-400*

Ordering codes

Article number	Benämning	Description
FD5B20065NDX00SE0	STV 65	Balancing valve flanged without drain
FD5B20080NDX00SE0	STV 80	Balancing valve flanged without drain
FD5B20100NDX00SE0	STV 100	Balancing valve flanged without drain
FD5B20125NDX00SE0	STV 125	Balancing valve flanged without drain
FD5B20150NDX00SE0	STV 150	Balancing valve flanged without drain
FD5B20200NDX00SE0	STVE 200	Balancing valve flanged without drain
FD5B20250NDX00SE0	STVE 250	Balancing valve flanged without drain
FD5B20300NDX00SE0	STVE 300	Balancing valve flanged without drain
FD5B20350NDX00SE0	STVE 350	Balancing valve flanged without drain
FD5B20400NDX00SE0	STVE 400	Balancing valve flanged without drain

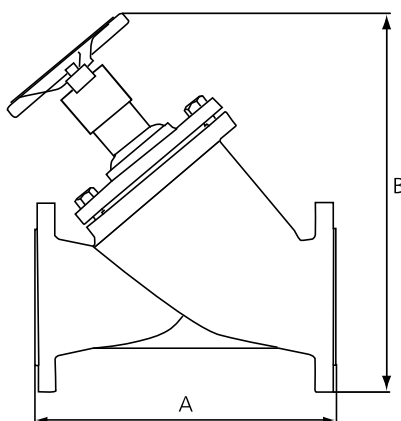
Article number	Name	Description
FD5B7006500X00SE0	IS 65	Insulation DN 65
FD5B7008000X00SE0	IS 80	Insulation DN 80
FD5B7010000X00SE0	IS 100	Insulation DN 100
FD5B7012500X00SE0	IS 125	Insulation DN 125
FD5B7015000X00SE0	IS 150	Insulation DN 150



Product Information *STV(E) DN 65-400*

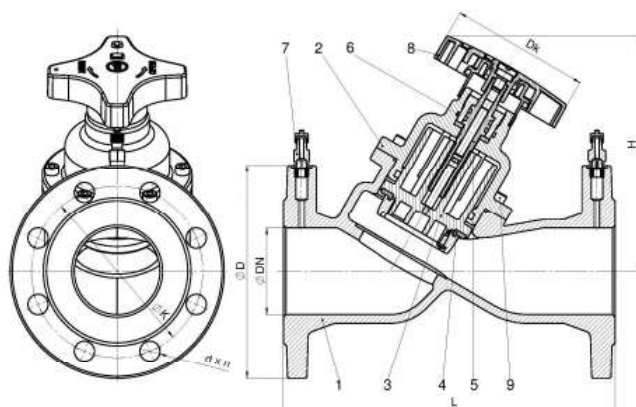
Dimensions DN 65 - DN 300

	Dim	A	B	Weight/kg
STV 65	DN 65	290	225	14
STV 80	DN 80	310	240	20
STV 100	DN 100	350	260	26
STV 125	DN 125	400	290	40
STV 150	DN 150	480	300	50
STVE 200	DN 200	600	652	115
STVE 250	DN 250	730	728	159
STVE 300	DN 300	850	1092	211



Dimensions DN 350 - DN 400

	Dim	L	H	Dk	Weight/kg
STVE 350	DN 350	980	650	350	375
STVE 400	DN 400	1100	750	350	510



Product Information *STV(E) DN 65-400*



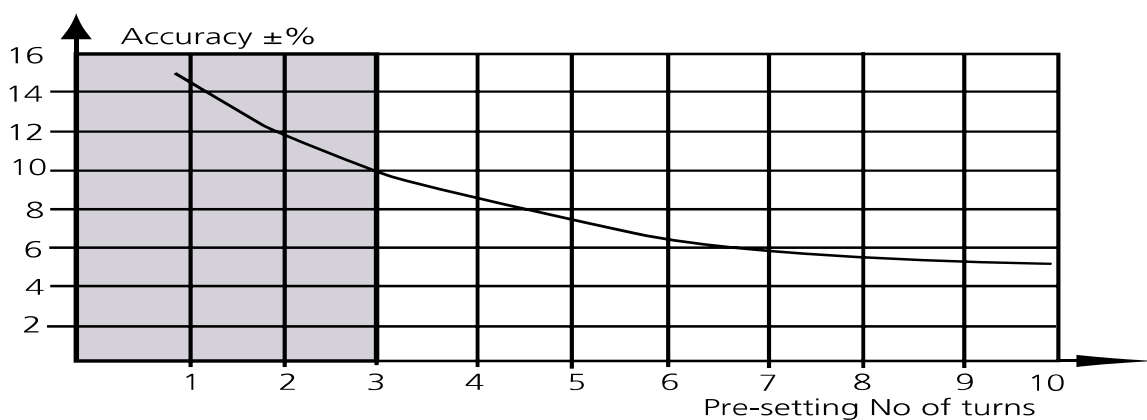
Media

Maximum temperature with another media than water

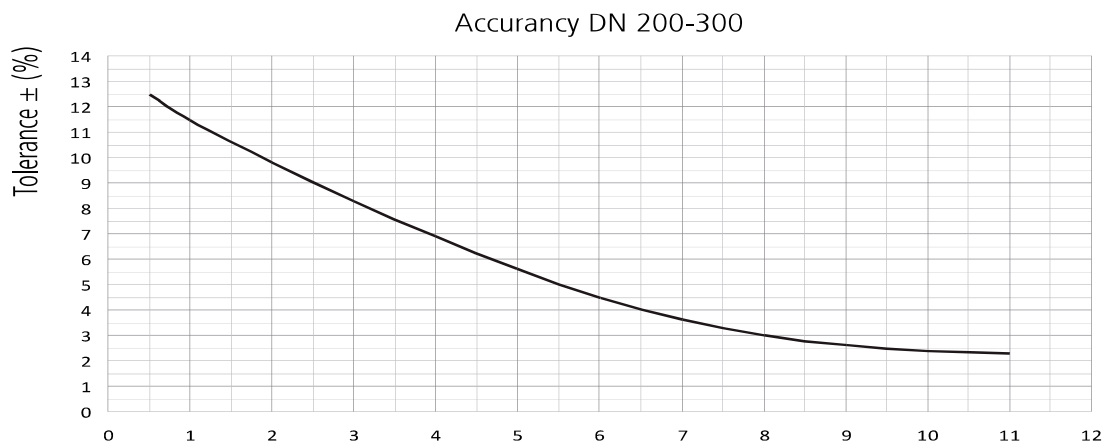
Media	°C
Ethyleneglycol	100°C
Propyleneglycol	60°C
Glycerol (Propantriol)	100°C
Potash (diluted)	40°C
Sodium chloride	100°C
Temper	60°C

Note! For the STV range, it is only suitable to use neutral fluids

Accuracy DN 65-150



Accuracy DN 200-300



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