



Technical description

Application:

Heating and cooling systems
Tapwater systems

Function:

Adjustment
Pre-setting
Shut-off
TA Loop: Measuring

Pressure class:

PN 16
TA Loop: PN 10

Temperature:

Max working temperature: 120°C
Min working temperature: -10°C

Material:

Valve body, disc, spindle and straight union: AMETAL® or brass.

O-rings: Nitril. (TRIM K, TA Loop EPDM).

Other parts: Brass.

AMETAL® is the dezincification resistant alloy of TA.

Surface treatment:

Nickel-plated.
TRIM K non-plated (yellow).

Marking:

TRIM: Valve body marked with TA.

TRIM A, STK: Valve body marked with TA, TRIM and inch size.

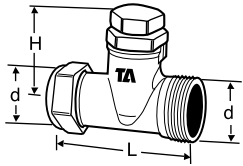
RADITRIM A: Valve body marked with TA, TRIM, inch size and
presetting cap marked with RADITRIM A.

TRIM K: Valve body marked with TA and DN.

TA Loop: TA and Kv-value stamped on the valve body.

TRIM

Straight
incl swivelling nut

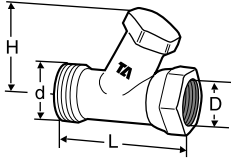


TA No	DN	d	L	H	Kvs
50 696-122	10	M22x1,5	52	40	0.9

$Kvs = m^3/h$ at a pressure drop of 1 bar and fully open valve.

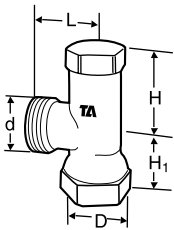
TRIM A

Straight
excl radiator union



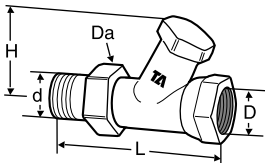
TA No	DN	d	D	L	H	Kvs
50 001-610	10	M22x1,5	G3/8	50	33	1.4
50 001-615	15	M26x1,5	G1/2	58	36	1.9
50 001-620	20	M34x1,5	G3/4	73	45	4.5

Angle
excl radiator union



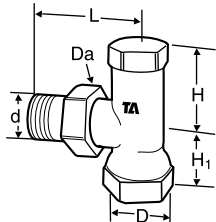
TA No	DN	d	D	L	H	H1	Kvs
50 003-610	10	M22x1,5	G3/8	23	29	22	1.4
50 003-615	15	M26x1,5	G1/2	26	31	26	1.9
50 003-620	20	M34x1,5	G3/4	31	36	31	4.5

Straight
incl radiator union



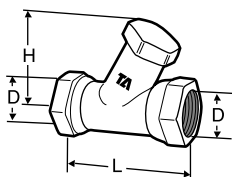
TA No	DN	d	D	Da	L	H	Kvs
50 001-110	10	R3/8	G3/8	M22x1,5	75	33	1.4
50 001-115	15	R1/2	G1/2	M26x1,5	88	36	1.9
50 001-120	20	R3/4	G3/4	M34x1,5	107	45	4.5

Angle
incl radiator union



TA No	DN	d	D	Da	L	H	H1	Kvs
50 003-110	10	R3/8	G3/8	M22x1,5	48	29	22	1.4
50 003-115	15	R1/2	G1/2	M26x1,5	56	31	26	1.9
50 003-120	20	R3/4	G3/4	M34x1,5	65	36	31	4.5

Straight
female thread



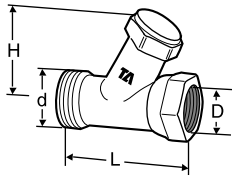
TA No	DN	D	L	H	Kvs
50 007-110	10	G3/8	52	33	1.4
50 007-115	15	G1/2	63	36	1.9
50 007-120	20	G3/4	80	45	4.5

$Kvs = m^3/h$ at a pressure drop of 1 bar and fully open valve.

TRIM A can be connected to smooth pipes by means of the KOMBI compression coupling. (See catalogue leaflet KOMBI).

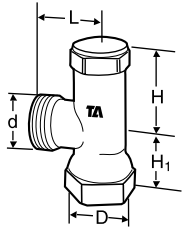
RADITRIM A

Straight excl radiator union



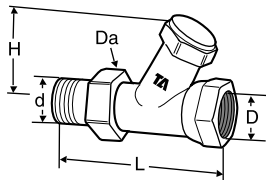
TA No	DN	d	D	L	H	Kvs
50 004-610	10	M22x1,5	G3/8	50	33	0.6
50 004-615	15	M26x1,5	G1/2	58	36	0.9

Angle excl radiator union



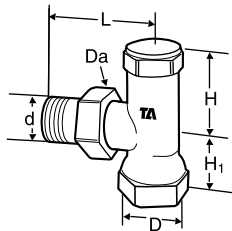
TA No	DN	d	D	L	H	H1	Kvs
50 006-610	10	M22x1,5	G3/8	23	29	22	0.6
50 006-615	15	M26x1,5	G1/2	26	31	26	0.9

Straight incl radiator union



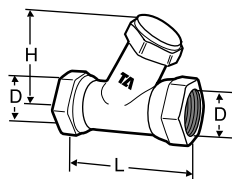
TA No	DN	d	D	Da	L	H	Kvs
50 004-110	10	R3/8	G3/8	M22x1,5	75	33	0.6
50 004-115	15	R1/2	G1/2	M26x1,5	88	36	0.9

Angle incl radiator union



TA No	DN	d	D	Da	L	H	H1	Kvs
50 006-110	10	R3/8	G3/8	M22x1,5	48	29	22	0.6
50 006-115	15	R1/2	G1/2	M26x1,5	56	31	26	0.9

Straight female thread



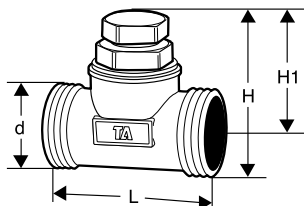
TA No	DN	D	L	H	Kvs
50 007-610	10	G3/8	52	33	0.6
50 007-615	15	G1/2	63	36	0.9

Kvs = m³/h at a pressure drop of 1 bar and fully open valve.

RADITRIM A can be connected to smooth pipes by means of the KOMBI compression coupling. (See catalogue leaflet KOMBI).

TRIM K

TRIM K can also be used on heating systems up to a maximum of 120°C.



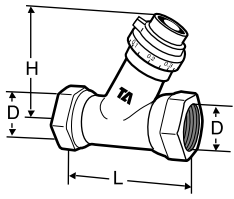
TA No	DN	d	L	H	H1	Kvs
50 032-020	20	G3/4	60	58	45	4
50 032-025	25	G1	65	62	45	6

Kvs = m³/h at a pressure drop of 1 bar and fully open valve.

TRIM K can be connected to STADA coupling. (See catalogue leaflet STS, STAM, STA, ...).

STK For key adjustment

Straight female thread



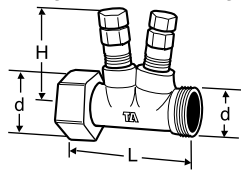
TA No	DN	D	L	H	Kvs
50 007-715	15	G1/2	63	55	1.8
50 007-720	20	G3/4	80	69	4.5

$Kvs = m^3/h$ at a pressure drop of 1 bar and fully open valve.

STK can be connected to smooth pipes by means of the KOMBI compression coupling. (See catalogue leaflet KOMBI).

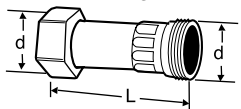
TA Loop

Measurement unit straight incl swivelling nut



TA No	DN	d	L	H	Flow range* l/h	Kvs
50 690-022	10	M22x1,5	52	50	30-70	0.23
50 690-122	10	M22x1,5	52	50	60-150	0.47
50 691-122	10	M22x1,5	52	50	120-310	0.98
50 693-122	10	M22x1,5	52	50	290-750	2.36

Adapter incl swivelling nut



TA No	d	L
50 694-122	M22x1,5	52

*) Flow range for Δp 1,5-10 kPa.

$Kvs = m^3/h$ at a pressure drop of 1 bar and fully open valve.

TA Loop can be connected to compression coupling FPL M22x1,5 (see catalogue leaflet FPL)

Setting

Shut-off/Presetting:

TRIM, TRIM A, TRIM K, STK: One valve disc for shut-off/presetting.

RADITRIM A: Two valve discs, one for shut-off and one for presetting.

Presetting TRIM A

Preset the valve by removing the cover and using an Allen key to close the valve completely. Then open the valve by the number of turns as shown in the diagram below to give the required setting: finish by replacing the cover.

Note: If the valve is subsequently closed, the pre-setting will be lost, and the valve must be preset again.

Presetting RADITRIM A

Preset the valve by removing the cover and using an Allen key to close the presetting spindle completely. Then open the presetting spindle (inner cone, allen key 3 mm) by the number of turns as shown in the diagram to give the required setting. Check that the shut-off spindle (outer cone, allen key 4 mm) is fully open, and then finish by replacing the cover.

Note: If the valve is subsequently closed, the pre-setting will not be lost.

Presetting STK

Preset the valve using the special key for the purpose (part no. 52 187-003). Set the arrow on the key to the required Kv value on the scale ring.

Remove the key: an arrow on the valve spindle shows the Kv setting.

Size of allen key:

TRIM, TRIM A:

DN 10/15 4 mm

DN 20 6 mm

RADITRIM A:

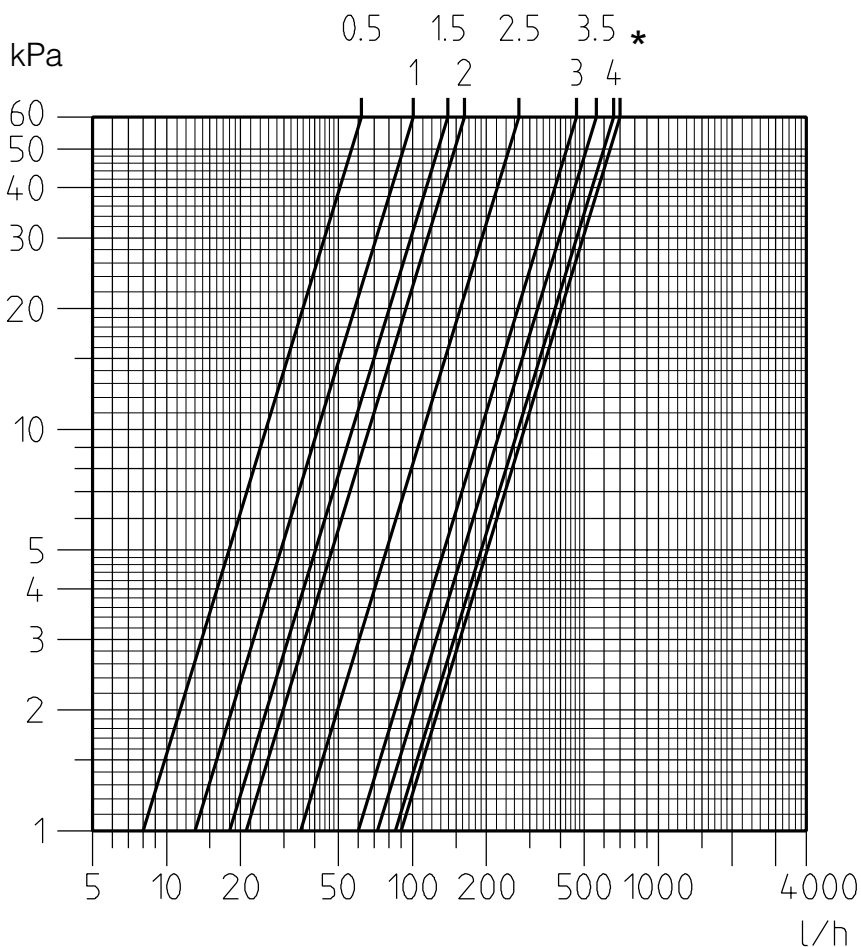
Outer cone 4 mm

Inner cone 3 mm

STK: separate key

TRIM K: 6 mm

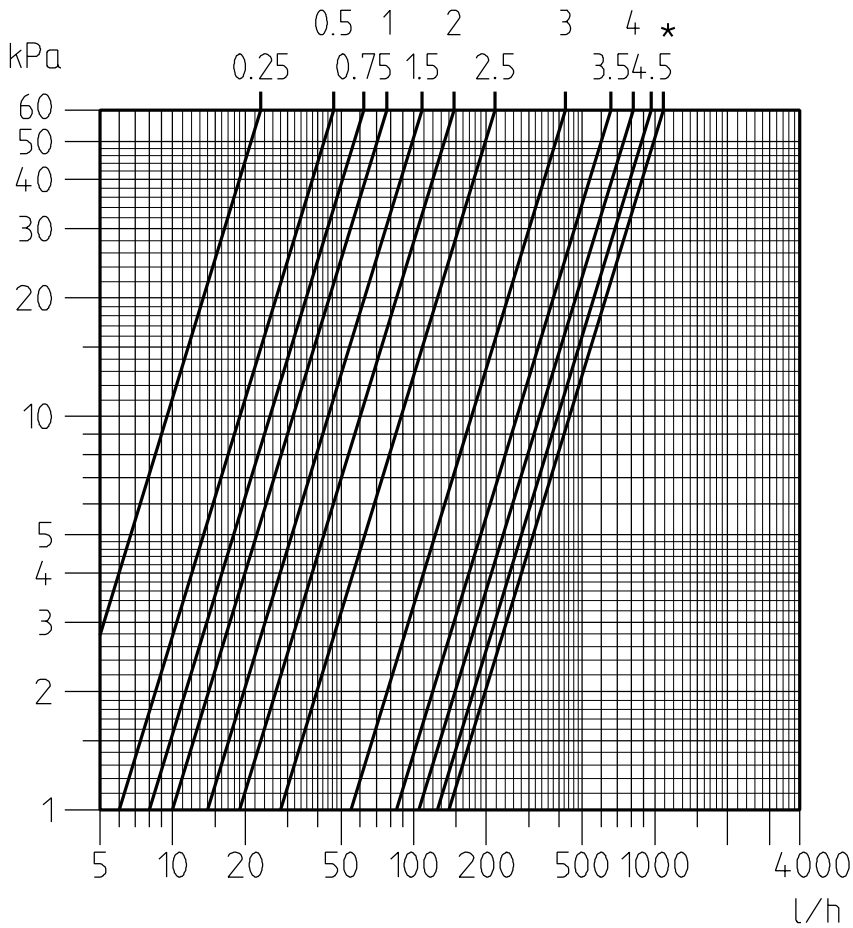
Diagram TRIM



Delivery setting*) = Fully open

Number of turns	Kv
0,5	0,08
1	0,13
1,5	0,18
2	0,21
2,5	0,35
3	0,6
3,5	0,72
4	0,85
*)	0,9

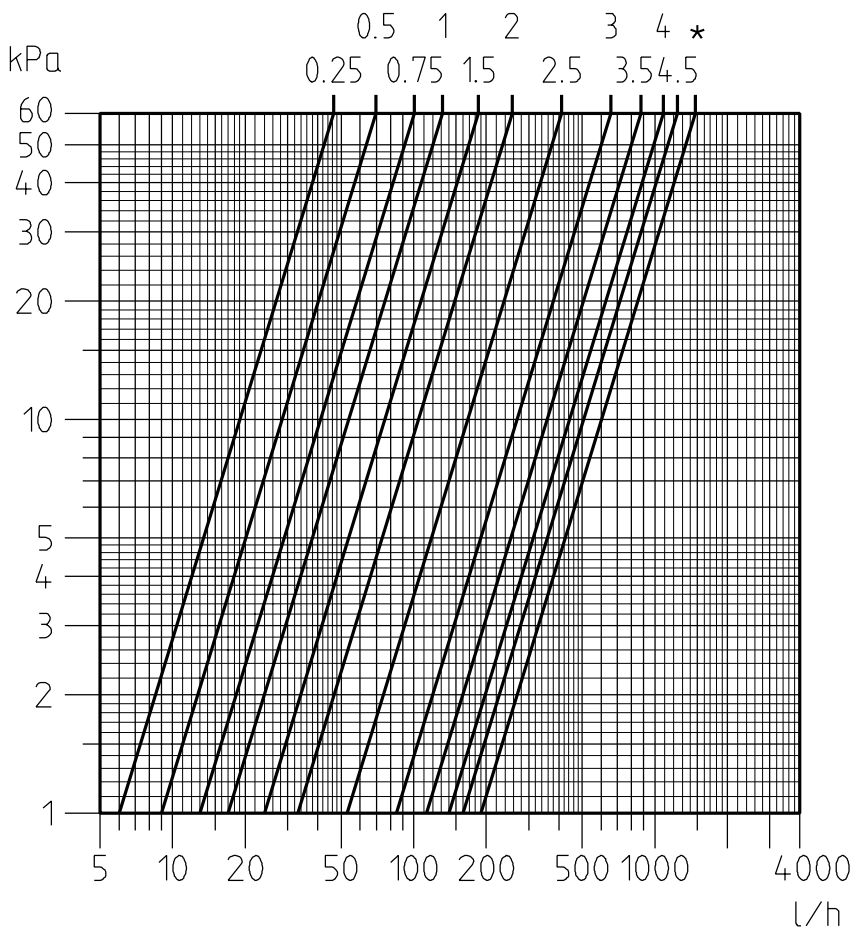
Diagram TRIM A DN 10



Delivery Setting*) = Fully open

Number of turns	Kv
0.25	0.03
0.5	0.06
0.75	0.08
1	0.1
1.5	0.14
2	0.19
2.5	0.28
3	0.55
3.5	0.85
4	1.05
4.5	1.25
*)	1.4

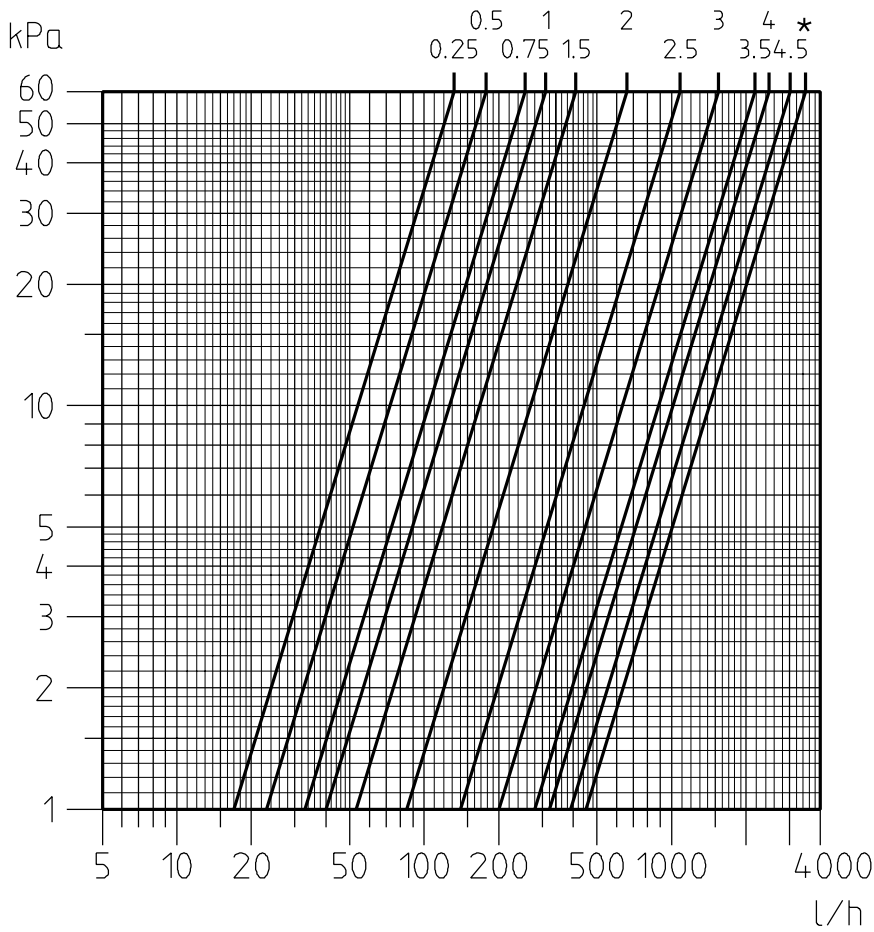
Diagram TRIM A DN 15



Delivery Setting*) = Fully open

Number of turns	Kv
0.25	0.06
0.5	0.09
0.75	0.13
1	0.17
1.5	0.24
2	0.33
2.5	0.53
3	0.85
3.5	1.13
4	1.4
4.5	1.6
*)	1.9

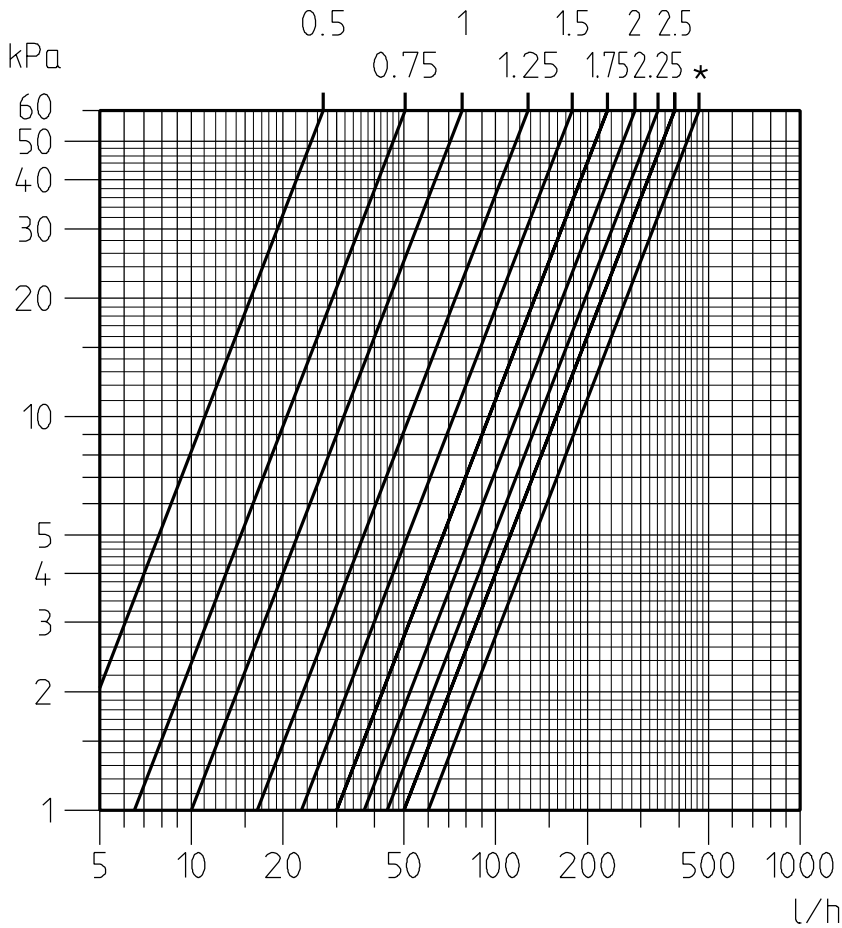
Diagram TRIM A DN 20



Delivery Setting*) = Fully open

Number of turns	Kv
0.25	0.17
0.5	0.23
0.75	0.33
1	0.4
1.5	0.53
2	0.85
2.5	1.4
3	2.0
3.5	2.8
4	3.2
4.5	3.9
*)	4.5

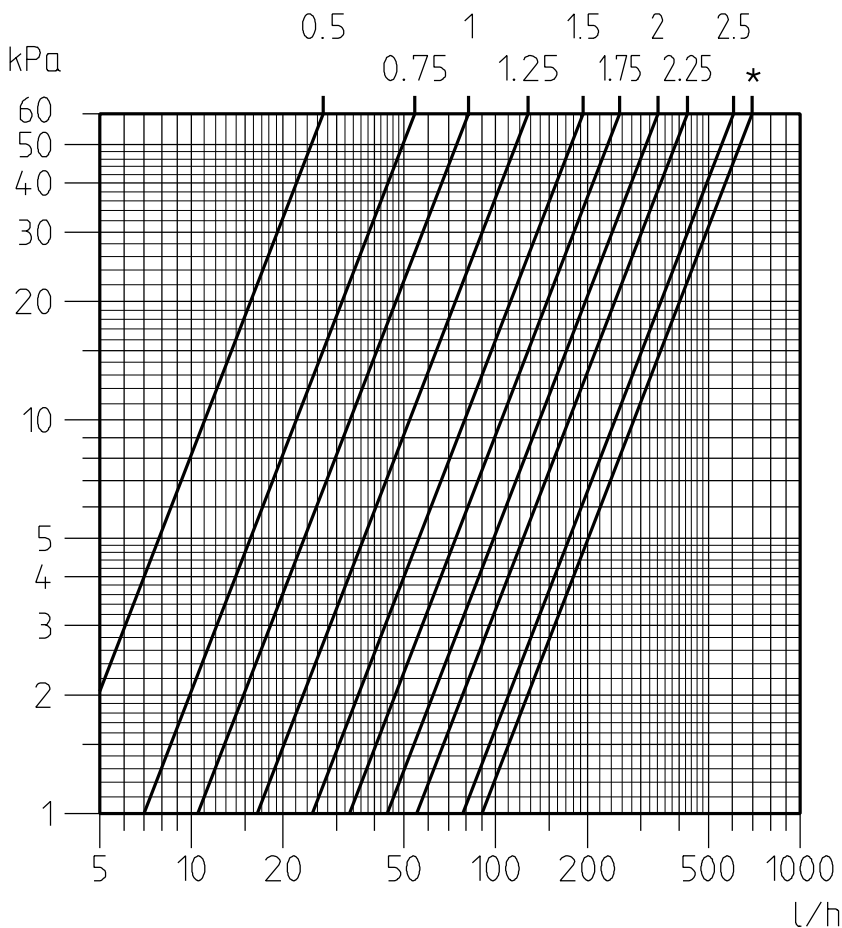
Diagram RADITRIM A DN 10



Delivery Setting*) = Fully open

Number of turns	Kv
0.5	0.035
0.75	0.065
1	0.1
1.25	0.165
1.5	0.23
1.75	0.3
2	0.37
2.25	0.44
2.5	0.5
*)	0.6

Diagram RADITRIM A DN 15



Delivery Setting *) = Fully open

Number of turns	Kv
0.5	0.035
0.75	0.07
1	0.105
1.25	0.165
1.5	0.25
1.75	0.33
2	0.44
2.25	0.55
2.5	0.78
*)	0.9

Diagram TRIM K DN 20

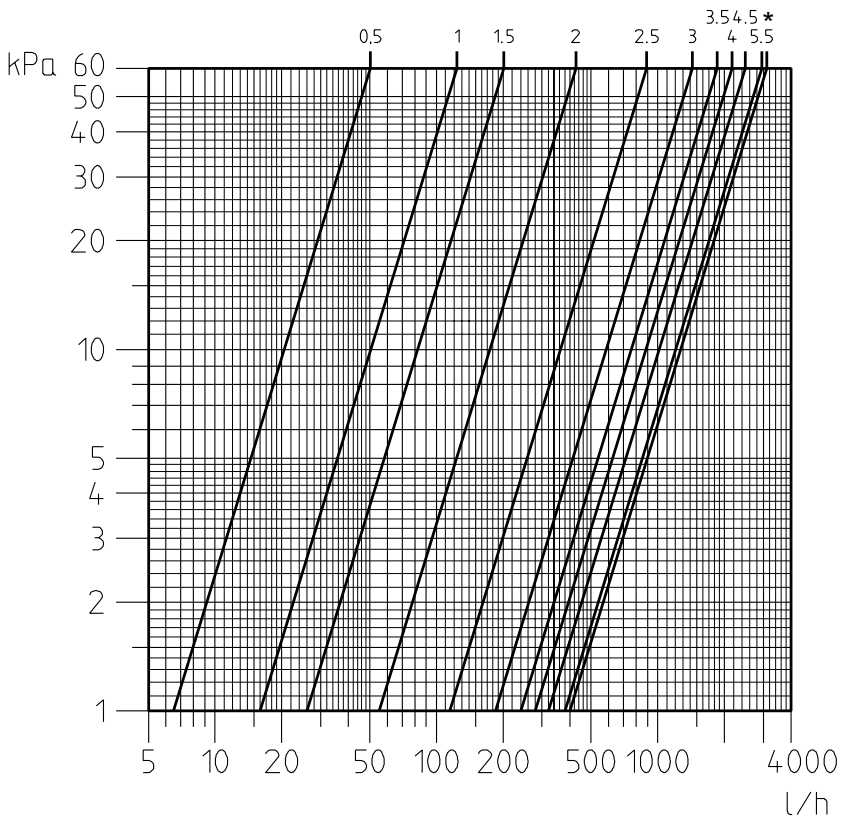
Example:

A thermostatic valve RVT K DN 20 is installed with therm actuator TSE 150. The flow rate is 700 l/h and pressure drop is 8 kPa. available pressure is 24 kPa and pressure drop in the radiator/cooler is 2 kPa. What should the initial setting of the TRIM K be?

Solution:

Δp for the TRIM K is $24 - (2+8)$ kPa = 14 kPa.

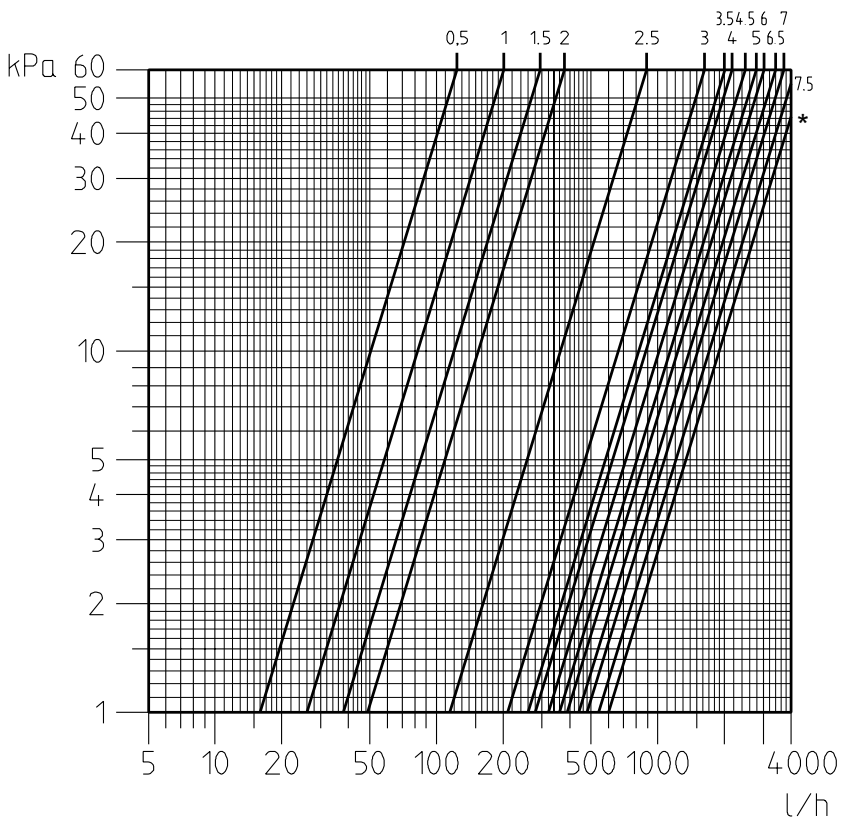
700 l/h and $\Delta p = 14$ kPa gives setting value = 3 turns from closed setting.



Delivery setting *) = Fully open

Number of turns	Kv
0.5	0,065
1	0,16
1.5	0,26
2	0,55
2.5	1,15
3	1,85
3.5	2,4
4	2,8
4.5	3,2
5.5	3,8
*)	4,0

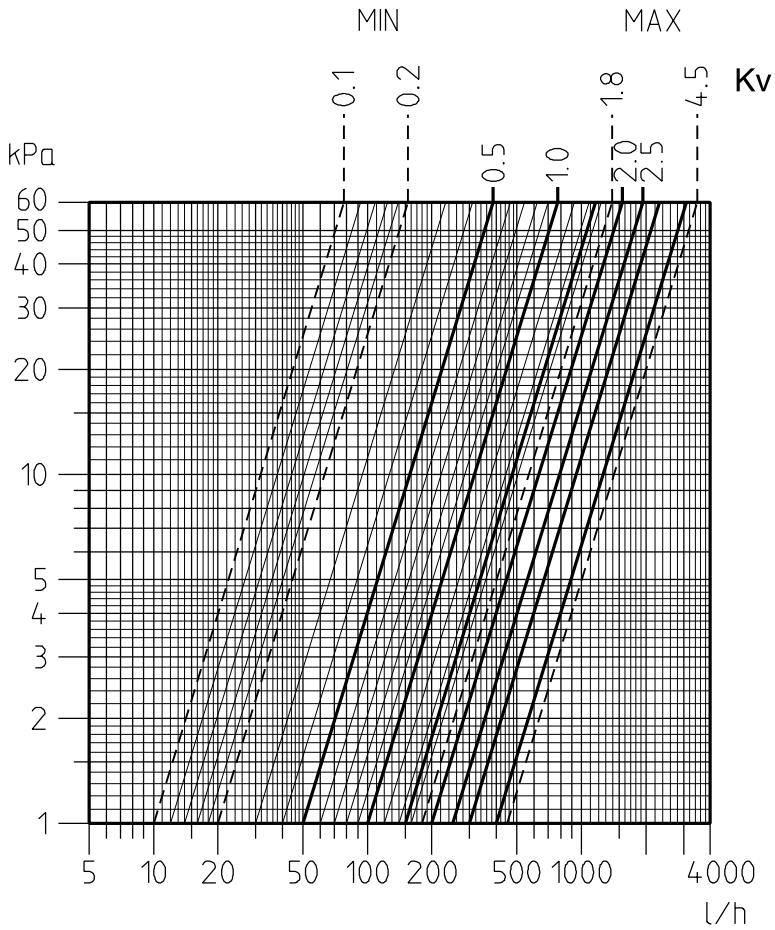
Diagram TRIM K DN 25



Delivery Setting *) = Fully open

Number of turns	Kv
0.5	0,16
1	0,26
1.5	0,38
2	0,49
2.5	1,15
3	2,1
3.5	2,6
4	2,8
4.5	3,2
5	3,6
6	3,9
6.5	4,4
7	4,8
7.5	5,4
*)	6,0

Diagram STK DN 15, DN 20



DN 15

Delivery setting Kv = 1,8

DN 20

Delivery setting Kv = 4,5

Presetting values given directly in Kv
Min- and max setting are shown in the diagram.

	Kv	
	min	max
DN 15	0,1	1,8
DN 20	0,2	4,5

Diagram TA Loop Measuring unit

