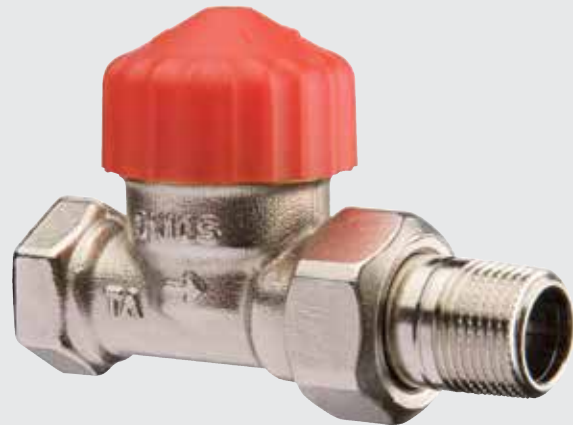



TRV-2, TRV-2S



Thermostatic radiator valves
With presetting


*Engineering
GREAT Solutions*

TRV-2, TRV-2S

Thermostatic radiator valve primary for radiators in heating systems and secondary for small cooling terminals.

Key features

- > **Stepless presetting**
Accurate balancing.
- > **Max Δp 30 kPa**
Better comfort.
- > **Double O-rings**
Trouble free operation.



Technical description

Applications:

Heating and cooling systems

Function:

Control
Stepless presetting
Shut-off

Dimensions:

DN 10-20

Pressure class:

PN 10

Max. differential pressure:

Maximum differential pressure to ensure that the valve does not open against a closed thermostat: 100 kPa.

Temperature:

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

Materials:

Valve body: Straight and angle of AMETAL®. Reversed angle of brass.
O-rings: EPDM rubber
Valve disc: EPDM rubber
Return spring: Stainless steel
Valve insert: Brass, PPS (polyphenylsulphide)
Spindle: Stainless steel

AMETAL® is the dezincification resistant alloy of IMI Hydronic Engineering.

Surface treatment:

Valve body and fittings are nickel-plated

Marking:

TA, country code, flow direction arrow, size and KEYMARK symbol.
TRV-2: White protection cap.
TRV-2S: Red protection cap. The locking nut at the valve insert is marked in red.

Standards:

KEYMARK certified and tested according to EN 215.



026

Connection to thermostatic head:

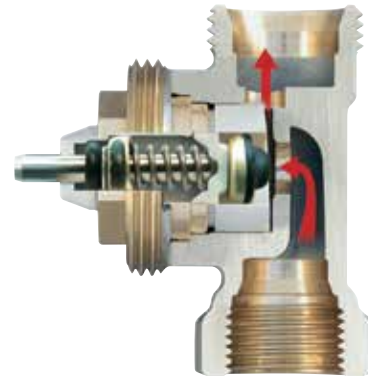
M30x1.5

Operating instruction

The valve is supplied with a protective wheel. The protective wheel can easily be replaced by a handwheel, thermostatic head or an actuator.

If the protective wheel is used to isolate when dismantling the radiator, the outlet must be plugged or capped.

Attention! TRV-2/TRV-2S requires clean system water to work properly without disturbance because of clogging.



Noise

The following conditions must be fulfilled in order to avoid noise in the heating system:

- Flows correctly balanced
- The water in the system must have been de-aerated
- Circulation pumps which do not give too high differential pressure (alternative use a differential pressure controller, e.g. STAP).

The maximum recommended pressure drop in order to avoid noise: 30 kPa = 0,3 bar.

Setting

The valve has stepless pre-setting which can be adjusted by the pre-setting tool.

The valve is delivered with the pre-setting of 6, i.e. fully open valve.

1. Remove the protective wheel.
2. Set the required value using the pre-setting tool (Article No 50 198-004).
3. Refit the protective wheel (alternatively the thermostat head or the handwheel).

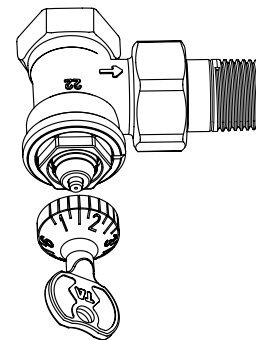
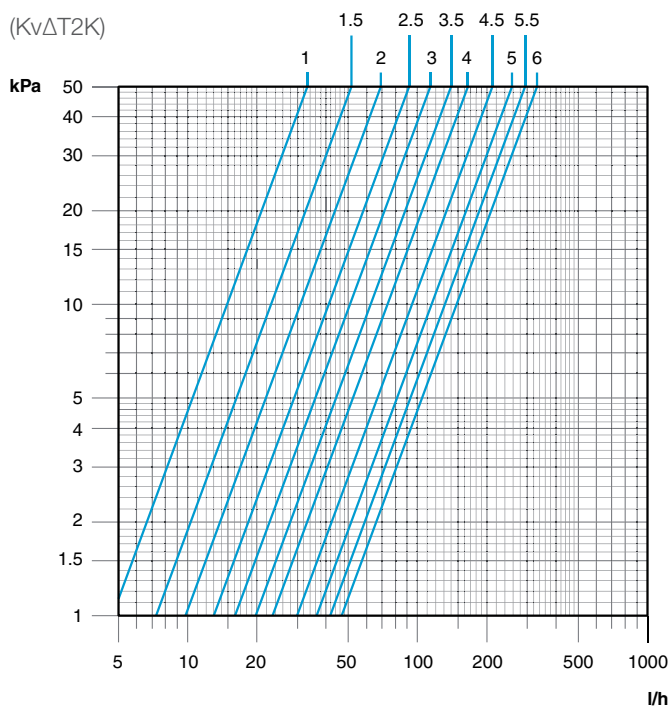
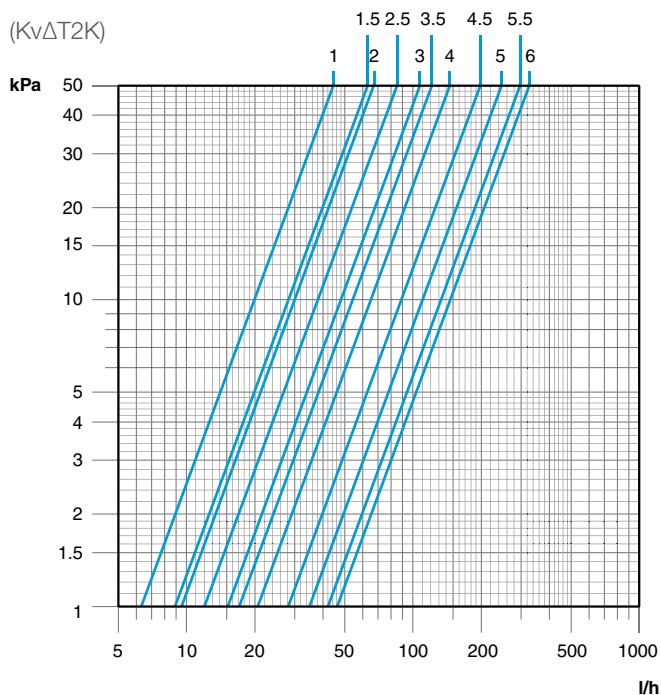


Diagram TRV-2 Straight and angle



Pre-setting value	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
KvΔT2K*	0,047	0,073	0,098	0,130	0,161	0,198	0,234	0,299	0,364	0,416	0,468
Fully open valve disc**	0,054	0,079	0,104	0,139	0,174	0,211	0,247	0,353	0,459	0,630	0,800***

Diagram TRV-2 Reversed angle



Pre-setting value	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
KvΔT2K*	0,063	0,089	0,095	0,120	0,152	0,171	0,206	0,281	0,348	0,421	0,462
Fully open valve disc**	0,063	0,089	0,095	0,123	0,158	0,180	0,221	0,323	0,430	0,626	0,727***

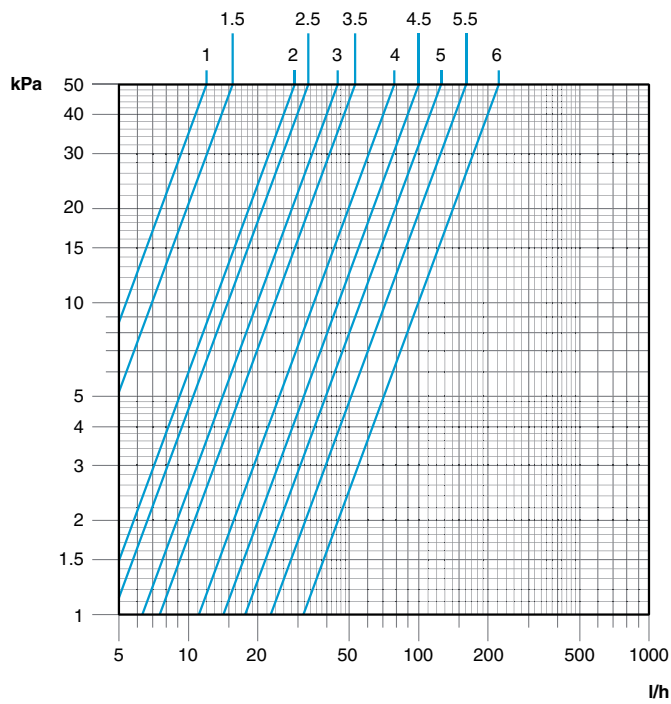
*) The values are valid when used together with thermostic head TRV 300.

**) The values are valid for on/off regulation with, for example, thermo actuator EMO T.

***) Fully open valve.

Diagram TRV-2S Low flow

($Kv\Delta T2K$)



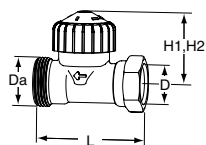
Pre-setting value	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
$Kv\Delta T2K^*$	0,017	0,022	0,041	0,047	0,063	0,075	0,111	0,142	0,177	0,228	0,316
Fully open valve disc**	0,017	0,022	0,041	0,047	0,063	0,078	0,114	0,150	0,187	0,240	0,350***

*) The values are valid when used together with thermostic head TRV 300.

**) The values are valid for on/off regulation with, for example, thermo actuator EMO T.

***) Fully open valve.

Excluding radiator union

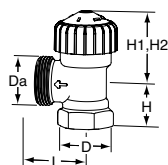


Straight

DN	D	Da	L	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	50	36	107	0,047-0,468	7318793757500	50 861-610
15	G1/2	M26x1,5	58	38	109	0,047-0,468	7318793757609	50 861-615
20	G3/4	M34x1,5	68	38	109	0,047-0,468	7318793757708	50 861-620

TRV-2S, low flow

DN	D	Da	L	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	50	36	107	0,017-0,316	7318793788009	50 861-010
15	G1/2	M26x1,5	58	38	109	0,017-0,316	7318793788108	50 861-015
20	G3/4	M34x1,5	68	38	109	0,017-0,316	7318793788207	50 861-020

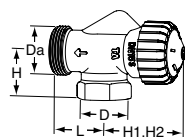


Angle

DN	D	Da	L	H	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	23	20	36	107	0,047-0,468	7318793758309	50 863-610
15	G1/2	M26x1,5	26	24	38	109	0,047-0,468	7318793758408	50 863-615
20	G3/4	M34x1,5	31	28	36	107	0,047-0,468	7318793758507	50 863-620

TRV-2S, low flow

DN	D	Da	L	H	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	23	20	36	107	0,017-0,316	7318793946805	50 863-010
15	G1/2	M26x1,5	26	24	38	109	0,017-0,316	7318793946904	50 863-015
20	G3/4	M34x1,5	31	28	36	107	0,017-0,316	7318793947000	50 863-020

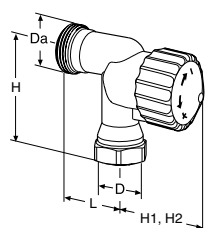


Reversed angle

DN	D	Da	L	H	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	23	21	47	119	0,063-0,462	7318793759009	50 864-610
15	G1/2	M26x1,5	26	25	47	119	0,063-0,462	7318793759108	50 864-615

TRV-2S, low flow

DN	D	Da	L	H	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	23	21	47	119	0,017-0,316	7318793787606	50 864-010
15	G1/2	M26x1,5	26	25	47	119	0,017-0,316	7318793787705	50 864-015



Angle

For replacement of radiator valve in manifold assemblies.

TRV-2S, low flow

DN	D	Da	L	H	H1	H2*	KvΔT2K	EAN	Article No
10	G3/8	M22x1,5	27	46,5	37	108	0,017-0,316	7318793947703	50 864-210

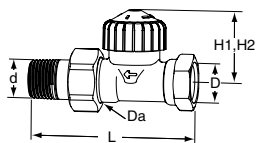
*) Valve with fitted thermostat.

Kv = m³/h at Δp = 1 bar.

KvΔT2K = The values are valid when used together with thermostatic head TRV 300.

All valves can be connected to smooth pipes by means of the KOMBI compression coupling
- See catalogue leaflet KOMBI.

Including radiator union

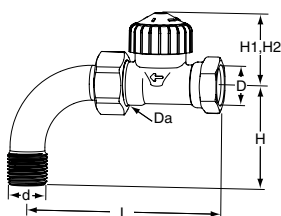


Straight

DN	d	D	Da	L	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	75	36	107	0,047-0,468	7318793757807	50 861-110
15	R1/2	G1/2	M26x1,5	88	38	109	0,047-0,468	7318793757906	50 861-115
20	R3/4	G3/4	M34x1,5	102	38	109	0,047-0,468	7318793758002	50 861-120

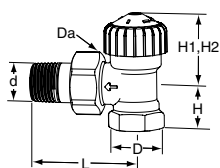
TRV-2S, low flow

DN	d	D	Da	L	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	75	36	107	0,017-0,316	7318793788306	50 861-510
15	R1/2	G1/2	M26x1,5	88	38	109	0,017-0,316	7318793788405	50 861-515



Straight

DN	d	D	Da	L	H	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	93	46	36	107	0,047-0,468	7318793758101	50 862-110
15	R1/2	G1/2	M26x1,5	106	52	38	109	0,047-0,468	7318793758200	50 862-115

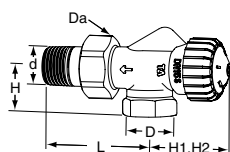


Angle

DN	d	D	Da	L	H	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	48	20	36	107	0,047-0,468	7318793758606	50 863-110
15	R1/2	G1/2	M26x1,5	56	24	38	109	0,047-0,468	7318793758705	50 863-115
20	R3/4	G3/4	M34x1,5	65	28	36	107	0,047-0,468	7318793758804	50 863-120

TRV-2S, low flow

DN	d	D	Da	L	H	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	48	20	36	107	0,017-0,316	7318793947109	50 863-510
15	R1/2	G1/2	M26x1,5	56	24	38	109	0,017-0,316	7318793947208	50 863-515
20	R3/4	G3/4	M34x1,5	65	28	36	107	0,017-0,316	7318793947307	50 863-520



Reversed angle

DN	d	D	Da	L	H	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	48	21	47	119	0,063-0,462	7318793758903	50 864-110
15	R1/2	G1/2	M26x1,5	56	25	47	119	0,063-0,462	7318793759603	50 864-115

TRV-2S, low flow

DN	d	D	Da	L	H	H1	H2*	Kv Δ T2K	EAN	Article No
10	R3/8	G3/8	M22x1,5	48	21	47	119	0,017-0,316	7318793787804	50 864-510
15	R1/2	G1/2	M26x1,5	56	25	47	119	0,017-0,316	7318793787903	50 864-515

*) Valve with fitted thermostat.

Kv = m³/h at $\Delta p = 1$ bar.

Kv Δ T2K = The values are valid when used together with thermostatic head TRV 300.

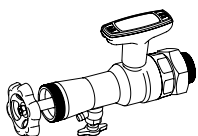
All valves can be connected to smooth pipes by means of the KOMBI compression coupling
- See catalogue leaflet KOMBI.

Accessories



Pre-setting tool

EAN	Article No
7318793748102	50 198-004



Servicing tool TRV-2, TRV-2S

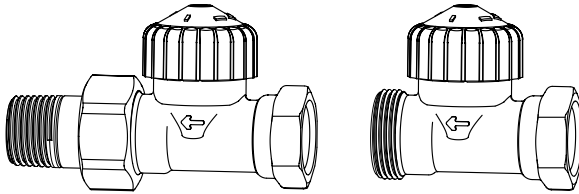
When changing of valve insert during operation

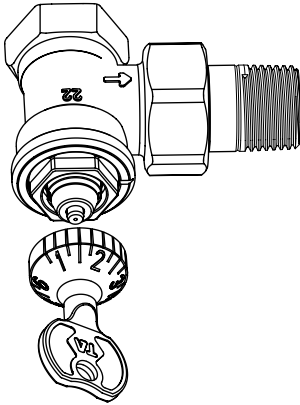
EAN	Article No
4024052298914	9721-00.000

Spare parts

The valve insert can be exchanged during operation - please contact IMI Hydronic Engineering for more information.

TRV-2, TRV-2S





Svenska

Om skyddsratten används för avstängning vid demontering av radiatorn, skall ventilens utlopp proppas.

Inställning

Ventilen har steglös förinställning.

Förinställningen ändras med hjälp av förinställningsverktyg.

Vid leverans är ventilen förinställd på värde 6, d v s fullt öppen.

1. Skruva av skyddsratten.
2. Ställ in önskad förinställning med förinställningsverktyget (Artikelnr 50 198-004).
3. Skruva på skyddsratten (alternativt termostaten eller handratten).

Norsk

Hvis beskyttelsesrattet benyttes til avstengning ved demontering av radiatoren, skal ventilens utløp plugges.

Innstilling

Ventilen har trinnløs forinnstilling.

Forinnstillingen endres ved hjelp av forinnstillingsverktøy.

Ved levering er ventilen forinnstilt på verdi 6, dvs. helt åpen.

1. Skru av beskyttelsesrattet.
2. Still inn ønsket forinnstilling med forinnstillingsverktøyet (Artikkelnr. 50 198-004).
3. Skru på beskyttelsesrattet (alt. termostat eller håndratt).

Suomi

Mikäli suojahattua käytetään venttiin sulkemiseen täytyy venttiili tulpata.

Esisäätö

Venttiili voidaan esisäätää portaattomasti.

Esisäätöarvoja muutetaan esisäätötyökalun avulla. Toimitettaessa venttiilit on säädetty arvoon 6 ja näin ollen ne ovat täysin auki asennossa.

1. Poista venttiin suojahattu.
2. Asettele haluttu esisäätöarvo esisäätöavaimen avulla (Tuotenro 50 198-004).
3. Kiinnitä suojahattu (tai termostaatti, tai käsipyörä) takaisin paikalleen.

Dansk

Hvis beskykkelsehåndhjulet eller termostat anvendes til afspærring af ventilen ved demontering af radiatoren, skal ventilens udløb proppes.

Indstilling

Ventilen har trinløs forindstilling.

Ventilen er fabriksindstillet på 6 d.v.s. helt åben.

Forindstillingen ændres med forindstillingsnøgle (Artikelnr 50 198-004).

1. Beskyttelsehåndhjulet skrues af (alt. termostat eller håndhjul).
2. Ønsket forindstilling indstilles med forindstillingsnøglen (Varenr. 50 198-004).
3. Beskyttelsehåndhjulet (alt. termostat eller håndhjul) skrues på.

English

If the protective wheel is used to isolate when dismantling the radiator, the outlet must be plugged or capped.

Setting

The valve has stepless pre-setting.

The pre-setting is adjusted by the pre-setting tool. The valve is delivered with the pre-setting of 6, i.e. fully open valve.

1. Remove the protective wheel.
2. Set the required value using the pre-setting tool (Article No 50 198-004).
3. Refit the protective wheel (alternatively the thermostat head or the handwheel).

Deutsch

Die Bauschutzkappe kann dazu verwendet werden, das Ventil bei Demontage des Heizkörpers abzusperren. Das Ventil muss aus Sicherheitsgründen mit einer Kappe verschlossen werden.

Einstellung

Das Ventil ist mit dem Voreinstellwerkzeug stufenlos voreinstellbar.

Ab Werk wird das Ventil mit der Voreinstellung 6 ausgeliefert, d. h. vollständig geöffnet.

1. Die Bauschutzkappe abnehmen.
2. Den erforderlichen Wert mit dem Voreinstellwerkzeug (Artikel Nr 50 198-004) einstellen.
3. Die Bauschutzkappe (oder den Thermostatkopf oder das Handrad) wieder montieren.

We reserve the right to introduce technical alterations without previous notice.

