

## TRV4 Thermostatic Radiator Valve

All Chrome



Britain's best selling range of thermostatic radiator valves set the standards for design, performance and quality. The All Chrome Drayton TRV4 with pushfit and standard compression connections to suit most domestic and commercial heating systems. Complements chrome radiators and is ideal for new stylish bathrooms.

# TRV4 Thermostatic Radiator Valve

## All Chrome

### Application

Suitable for domestic radiators and towel rails, providing an elegant chrome finish with either compression connections 15mm, 10mm, 8mm, or pushfit connection providing a means of connection to plastic and copper pipe. Suitable for plastic pipes 15mm within +/- 0.1mm of nominal size (BS7291 Class S) and copper pipe to BS EN 1057.

The pushfit connection is suitable for use on central heating systems and can withstand temperatures up to 110°C intermittently for short periods.

### Meeting standards

The TRV4 range of thermostatic radiator valves meet with the stringent new European standard EN215 and are manufactured in factories assessed and certified to BS EN ISO 9001.

### The TRV4 range – Range/ Kv Values – Valve Bodies

	Pre-setting Nr.	Kv (1K)	Kv (2K)	Kvs (max)	$\alpha$ (2K)
EB 8,	1	0.10	0.10	0.10	-
10,	2	0.14	0.14	0.14	-
15mm	3	0.19	0.22	0.22	-
	4	0.25	0.35	0.38	0.16
	5	0.28	0.47	0.66	0.48
	6	0.32	0.57	1.01	0.68

Kv is flowrate in m<sup>3</sup>/h at a differential pressure of 1 bar

$$Kv = \frac{Q}{\sqrt{\Delta p}}$$

$$Q = \text{Flowrate m}^3/\text{h}$$

$$\Delta p = \text{Differential pressure bar}$$

**NB: 8mm and 10mm valves comprise of a standard 15mm body with reducers.**

Refer to data sheet D40 for flow capacity graph.

### Connections

Compression fittings to BS EN 1254-2 1/2" BSP threaded radiator connections to BS EN 10266

### Materials

Sensing head	Chrome plated brass and plastic bezel
Valve Body	Chrome plated brass
Pushfit connection	Polyketone or brass and stainless steel

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Controls

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## Technical Data Heads

Maximum Sensor Temperature	50°C
Setting numbers	Integral sensor 1 to 5 then "MAX" Remote sensor 1 to 7 then "MAX"
* Frost protection	Integral and Remote sensor below 8°C
Temperature setting range	Integral and Remote sensor 1 to MAX = approx. 10°C to 30°C
Sensitivity	0.22mm/°C
Maximum closing force	70N
Hysteresis	Integral sensor 0.4 K Remote sensor 0.6 K
Water temperature influence	Integral sensor 0.8 K Remote sensor 0.4 K
Differential pressure influence	Integral sensor 0.15 K Remote sensor 0.10 K
Response time	Integral sensor 20 minutes Remote sensor 20 minutes

## Valves

Maximum test pressure	20 bar
Maximum flow temperature	Valve bodies: 110°C Pushfit connection: 92°C
Maximum static pressure	Valve bodies with compression fittings: 10 bar at 65°C, 6 bar at 110°C Pushfit connection: 3 bar at 92°C
Maximum differential pressure	1 bar (To ensure valve closure)
Maximum recommended differential pressure	0.2 bar (To ensure low noise operation)

Note: Technical data refers to Drayton head and valve body combinations

### Flow noise through valves

It is strongly recommended that the differential pressure across the thermostatic valves should not exceed 0.2 bar to avoid flow related noise. A differential pressure regulating device, e.g. the Drayton DTB Automatic by-pass valve should be used. Please refer to our data sheet D30.

### System cleansing

To avoid damage to the valves and heating system components, and the formation of scale deposit in the hot water heating system, the system should be flushed and a proprietary inhibitor added. Please refer to our datasheet D34.

## Product range

Part no.	Description
<b>All Chrome heads only</b>	
07 03 013	TRV4 Integral Head – All Chrome – UK – Drayton – boxed
07 03 013E	TRV4 Integral Head – All Chrome – UK – Drayton – EUROPE – boxed
<b>All Chrome head and 15mm body</b>	
07 05 150C	All Chrome TRV4 15mm Angle – boxed
07 05 151C	All Chrome TRV4 15mm Straight – boxed
<b>All Chrome head and 15mm body</b>	
07 05 085	TRV4 All Chrome Integral Head and 15mm Angle – blister pack
07 05 086	TRV4 All Chrome Integral Head and 15mm Straight – blister pack
<b>All Chrome head and 15mm body + Lockshield + Chrome cap</b>	
07 05 170	TRV4 All Chrome Integral Head + 15mm Angle + Lockshield + Chrome cap – blister pack
07 05 171	TRV4 All Chrome Integral Head + 15mm Straight + Lockshield + Chrome cap – blister pack

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