

TRV4 Thermostatic Radiator Valve

with pushfit connection for plastic pipe



Britain's best selling range of thermostatic radiator valves set the standards for design, performance and quality. Introducing the Drayton TRV4 with pushfit connection, for plastic pipe applications to suit most domestic and commercial heating systems.

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Application

Pushfit connection provides 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)	α (2K)
EB 8, 10, 15mm	1	0.10	0.10	0.10	-
	2	0.14	0.14	0.14	-
	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 m³/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 1254-2:1998
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 and stainless steel

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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 connections: 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.

Products in range

Product	Part no.
TRV4 15mm Ang+15mm PF elbow.	07 05 251
TRV4 15mm Ang+10mm PF elbow.	07 05 253
TRV4 15mm Str+15mm PF elbow.	07 05 254
TRV4 15mm Str+10mm PF elbow.	07 05 255
TRV4 15mm Ang+L/S+15mm PF elbow.	07 05 182
TRV4 15mm Ang+L/S+10mm PF elbow.	07 05 183



D47-4