

RT212 Thermostatic Radiator Valve

Lockshield and Pushfit Packs



Drayton thermostatic radiator valves provide low cost control of individual room temperatures. Available in 8mm, 10mm and 15mm compression and 10mm, 15mm pushfit connections. Various Lockshield and Pushfit Packs available.

RT212 Thermostatic Radiator Valve

Including Lockshield and Pushfit Packs

Application

Suitable for domestic heating, providing individual room temperature control with either compression connection 8mm, 10mm, 15mm or 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 RT212 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.

Lockshield valve

The lockshield valve is approved to BS 2767-10. The valve is fitted on the opposite end of the radiator to the TRV and is solely used by the installer to regulate the flow of water/ balance the system, or to isolate the radiator.

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 10226.

Materials

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

The RT212 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.

invensys
Controls

Customer Service Tel: 0845 130 5522
Customer Service Fax: 0845 130 0622
Technical Helpline Tel: 0845 130 7722
Email: customer.care@invensys.com
Website: www.draytoncontrols.co.uk

Technical Data

RT212 Head

Maximum Sensor Temperature	50°C
Setting numbers	1 to 6
* Frost protection	Below approx. 8°C
Temperature setting range	Approx. 12°C to 29°C
Sensitivity	0.22mm/°C
Hysteresis	0.7 K
Water temperature influence	0.9 K
Differential pressure influence	0.15 K
Response time	20 minutes

15mm Valve

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)

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
RT212 15mm + Lockshield Packs	
08 08 260	RT212 15mm Angle + Lockshield – boxed
08 08 261	RT212 15mm Angle + Lockshield + 8 & 10mm reducers – boxed
08 08 264	RT212 15mm Angle + Lockshield + DO
RT212 15mm + Pushfit Packs	
08 08 211	RT212 15mm Angle + 10mm pushfit elbow – boxed
08 08 251	RT212 15mm Angle + 15mm pushfit elbow – boxed
08 08 250	RT212 15mm Angle + 15mm pushfit plastic elbow – boxed
08 08 213	RT212 15mm Str + 10mm pushfit elbow
RT212 15mm + Lockshield + Pushfit Packs	
08 08 262	RT212 15mm Angle + Lockshield + 15mm pushfit elbows – boxed
08 08 263	RT212 15mm Angle + Lockshield + 10mm pushfit elbows – boxed
08 08 268	RT212 15mm Angle + Lockshield + DO + 10mm Pushfit elbows

Available from:



D57-4