RT414
Thermostat Radiator Valve

Drayton
by Schneider Electric

RT414 is rigorously tested to confirm to the EN 215 standard, which is recognised throughout Europe.

- Accurate liquid-filled sensor
- Stylish head design
- Radiators can be balanced from the TRV
- Pre-setting as standard

Made for simplicity

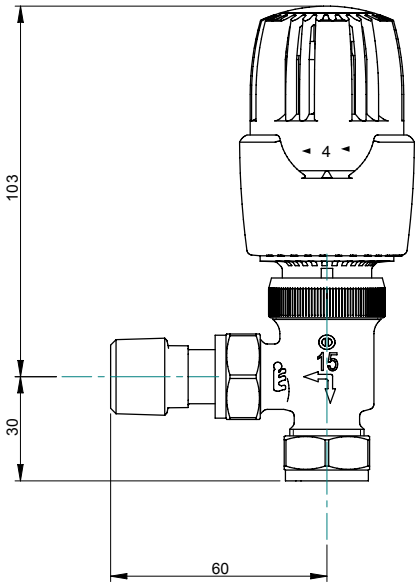
- Compact Design
- Off Position
- 9°C - 29°C setting range
- Range limiting
- Frost protection setting
- Reverse flow body (15mm angle)
- M30 x 1.5 head connection
- Liquid fill sensor

Getting technical

	RT414 Head
Temperature Setting Range	0 = Shut off position. * Frost protection = Below 9°C 1 to 6 = approx. 13°C to 29°C
Sensitivity	0.22mm / ºC
Hysteresis	0.35K
Water Temperature Influence	1K
Differential Pressure Influence	0.15K
Response Time	22 minutes
Control Accuracy	0.6k

	15mm Valve
Maximum Flow Temperature	110ºC
Maximum Static Pressure	Valve bodies with compression fittings: 10 bar at 65ºC, 6 bar at 110ºC
Maximum Differential Pressure	1 bar (to ensure valve closure)
Maximum Recommended Differential Pressure	0.2 bar for quiet operation (0.6 bar max)
Connections	Compression fittings meet BS EN 1254-2
Materials	Sensing head: ABS Valve body: Chrome plated brass

How we measure up



Body with wheelhead cap

Valve can be mounted vertically or horizontally on flow or return.

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.

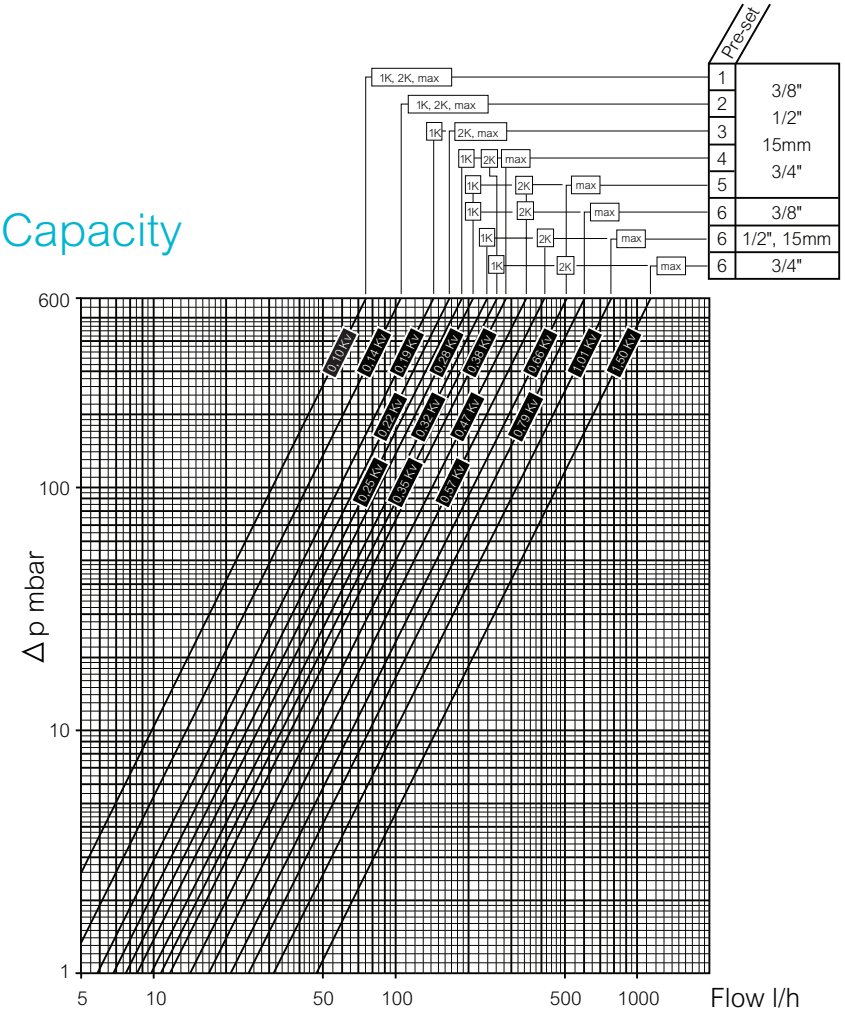
System cleansing

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.

Product	Part No.
RT414 head only	10 10 099
RT414 15mm Ang Bdy	10 10 015
RT414 15mm Ang +L/S	10 10 260
RT414 15mm Ang +L/S+DO	10 10 264
RT414 15mm straight valve	10 10 115

EB Valve Flow Capacity

Flow capacity graph



PRE-SETTING	Pre-setting Nr.	Kv (IK)	Kv (2K)	Kvs (max)	a (2K)
EB 3/8”	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	0.28	0.47	0.79	0.64
EB 15mm & 1/2”	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
EB 3/4”	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	0.35	0.66	1.50	0.80
EB 1/2” ASP/SSP	-	-	1.40	2.50	-
EB 3/4” ASP/SSP	-	-	1.40	4.50	-
EB 1” ASP/SSP	-	-	1.40	5.00	0.92

Kv is flowrate in m^3/h at a differential pressure of 1 bar

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

Q = Flowrate m^3/h

Δp = Differential pressure bar

D58-6
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