

Product range

Body type	Description	Part No
3/8 angle	EB 3/8 A	07 15 190
3/8 straight	EB 3/8 S	07 15 191
3/8 side angle	EB 3/8 SA	07 15 192
1/2 angle	EB 1/2 A	07 15 214
1/2 straight	EB 1/2 S	07 15 185
1/2 side angle	EB 1/2 SA	07 15 179
1/2 corner angle left	EB 1/2 CAL	07 15 193
1/2 corner angle right	EB 1/2 CAR	07 15 194
1/2 straight 90° bend	EB 1/2 S 90	07 15 189
10mm angle	EB 10 A	07 15 182
10mm straight	EB 10 S	07 15 183
15mm angle gold (cobalt)	EB 15 AGC	07 15 198
15mm angle	EB 15 A	07 15 180
15mm straight	EB 15 S	07 15 181
15mm side angle	EB 15 SA	07 15 195
15mm corner angle left	EB 15 CAL	07 15 196
15mm corner angle right	EB 15 CAR	07 15 197
15mm straight 90° bend	EB 15 S 90	07 15 188
3/4 angle	EB 3/4 A	07 15 186
3/4 straight	EB 3/4 S	07 15 187
1/2 angle single pipe	EB 1/2 ASP	07 15 621
1/2 straight single pipe	EB 1/2 SSP	07 15 624
3/4 angle single pipe	EB 3/4 ASP	07 15 622
3/4 straight single pipe	EB 3/4 SSP	07 15 625
1" angle single pipe	EB 1" ASP	07 15 623
1" straight single pipe	EB 1" SSP	07 15 626

Adaptors

Adaptor size	Use With	Part No
15 x 8mm (x5)	15mm body	07 35 108
15 x 10mm (x5)	15mm body	07 35 110
1/2 x 15mm (x5)	1/2 BSP body	07 35 254
14 x 2mm Pex or aluminium/ Pex composite pipe (x5)	15mm body	07 35 014
16 x 2mm pex or aluminium/ pex composite pipe (x5)	15mm body	07 35 016

Other products

Description	Part No
ETF2 2M remote setting kit	07 55 002
ETF6 6M remote setting kit	07 55 006
Gland seal kit x 2 including key	07 35 009
Pre-setting key x 2	07 35 162
Wheelhead/lockshield cap (bag 5)	07 35 123
Valve insert	07 35 025

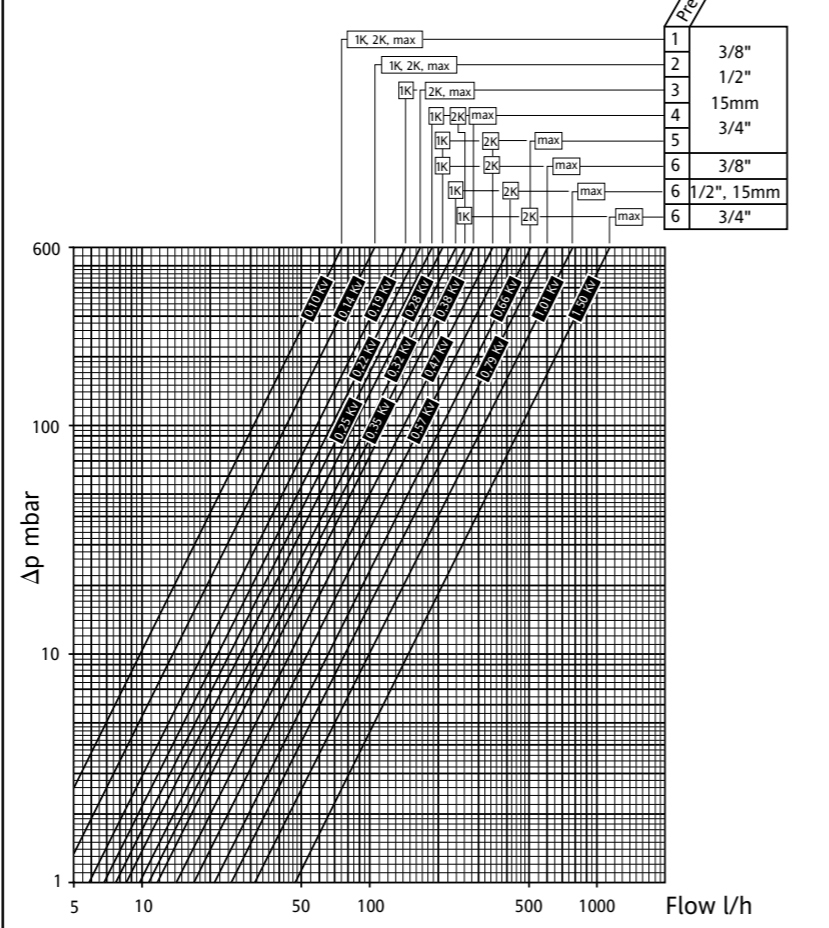
Technical Data:

Maximum test pressure	20 bar
Maximum flow temperature	110°C
Maximum Static Pressure	
Valves with BSP threads:	10 bar
Valve bodies with compression fittings:	10 bar at 65°C, 6 bar at 110°C
Maximum differential pressure 2 pipe valves	1 bar (To ensure valve closure)
Maximum differential pressure single pipe valves (sp)	0.5 bar (To ensure valve closure)
Maximum recommended differential pressure	0.2 bar (To ensure low noise operation)
Valve Insert material	PES
Body finish	
BSP valves:	Nickel
Metric:	Chrome
15mm angle:	gold available
Spindle seal	Double gland seal, top seal (replaceable)
Head connection thread	M30 x 1.5
CEN, where applicable, bodies comply with EN215.	

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Flow capacity graph.



Pre-setting	Pre-setting Nr.	Kv (1K)	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 15 & 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 m³/h at a differential pressure of 1 bar

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

$$Q = \sqrt{\Delta p} \times \text{Flowrate m}^3/\text{h}$$

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

Available from:



D40-6

EB Body Range and Adaptors



Drayton EB bodies and associated range of adaptors offer solutions for every common heating application. In either nickel or chrome plate, they boast pre-setting, non-stick internals as standard. 15mm angle bodies (also available in chrome or gold plate) feature reverse flow and can be fitted vertically or horizontally in either the flow or return.



EB body and adaptor range features

- PES internals, that have proved resistant to sticking in systems that are installed in hard water areas
- Presetting as standard
- Double gland seal, top seal replaceable without draining down
- Reverse flow 15mm angle body, in chrome, cobalt gold and incalux gold
- Valves can be used for wheelhead/lockshield applications
- Single pipe variants available
- Full range of copper, pex and composite pipe adaptors

Description of use

All Drayton two pipe EB bodies come with pre-setting internals as standard. This enables the system radiators to be accurately balanced to the required flow rates, which are shown in the Kv tables on the back page.

The bodies can be used with any of the Drayton thermostatic heads with a M30 x 1.5 ring nut or the wheelhead/ lockshield cap.

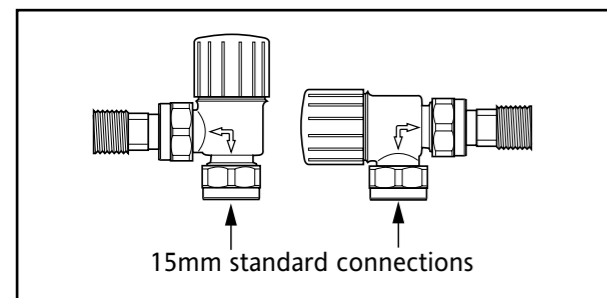
Using EB bodies on flow and return

When EB bodies are used on both ends of the radiator it is recommended that the thermostatic head is fitted onto the flow side, with the wheelhead cap on the return, wheelhead should be left fully open – see balancing section on opposite page.

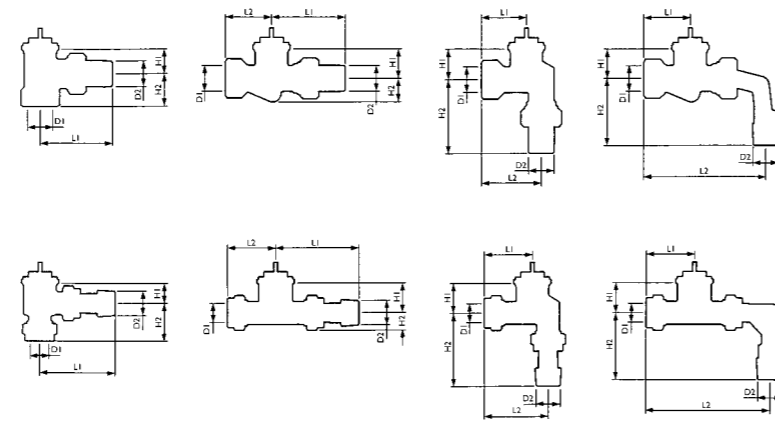
The 10mm and 15mm angle bodies are now completely reversible and can be fitted vertically or horizontally in either the flow or return, see diagram below.

Adaptors and reducers

Standard connection on EB15 valves are suitable for 15mm copper or 15mm steel tube. A range of other adaptors/reducers are available that fit onto the EB15 products, making them multi functional.



EB valve body dimensions

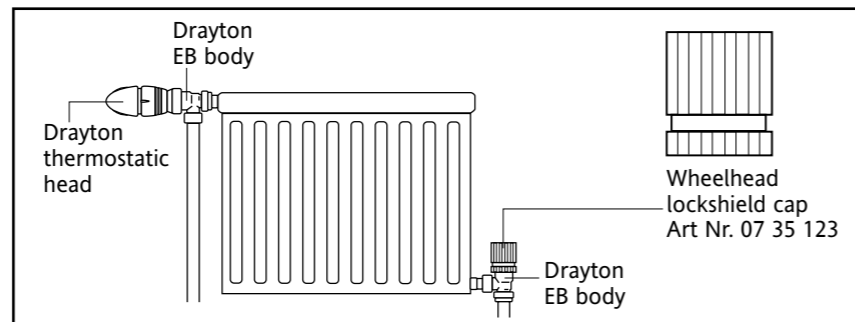


Single pipe valves

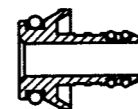
Dimensions	Angle				Straight				
	H1	H2	L1	D1	H1	H2	L1	D1	D2
1/2" BSP	29	24	64	Rp3/4 R1/2	30	16	64	41	Rp3/4 R1/2
3/4" BSP	27	28	66	Rp3/4 R3/4	30	21	69	45	Rp3/4 R3/4
1" BSP	30	30	74	Rp1 R1	30	26	77	48	Rp1 R1

Two pipe valves

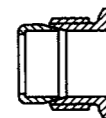
Dimensions	Angle				Straight and corner angle				Side angle				Straight and elbow						
	H1	H2	L1	D1	H1	H2	L1	D1	D2	H1	H2	L1	D1	D2	H1	H2	L1	D1	D2
3/8" BSP (DN10)	17	22	54	Rp3/8 R3/8	23	13	52	33	Rp3/8 R3/8	22	48	33	44	Rp3/8 R3/8	-	-	-	-	Rp3/8 R3/8
15mm (compression)	16	30	60	R1/2	23	14	66	39	R1/2	23	58	39	42	R1/2	23	53	39	97	R1/2
1/2" BSP (DN15)	19	26	58	Rp1/2 R1/2	22	16	57	37	Rp1/2 R1/2	22	57	36	48	Rp1/2 R1/2	22	53	57	97	Rp1/2 R1/2
3/4" BSP (DN20)	18	29	66	Rp3/4 R3/4	23	21	66	40	Rp3/4 R3/4	-	-	-	-	Rp3/4 R3/4	-	-	-	-	Rp3/4 R3/4



15 x 8mm adaptors 07 35 108 For copper pipe or steel tube
15 x 10mm adaptors 07 35 110



14 x 2mm adaptor 07 35 014 For Pex and Alu Pex pipe
16 x 2mm adaptor 07 35 016 For Pex and Alu Pex pipe



1/2 x 15mm, for use with EB 1/2 bodies 07 35 254 For copper pipe or steel tube

Balancing

Whether a standard lockshield or EB body with lockshield cap (07 35 123) is used, it is recommended that the radiator is balanced by using the presetting facility on the EB valve. The preferable method is to determine the preset number that is required by using the Kv table on the back page and setting the preset facility as detailed opposite.

If Kv is unknown, set the EB body to preset number 3 following diagrams 1, 2 and 3, right. Check the temperature drop across the radiator. To increase temperature drop (decrease flow) select a lower number. To decrease temperature drop (increase flow) select a higher number. For detailed instructions on commissioning and balancing see data sheet D34, available on request.

Flow noise through valves

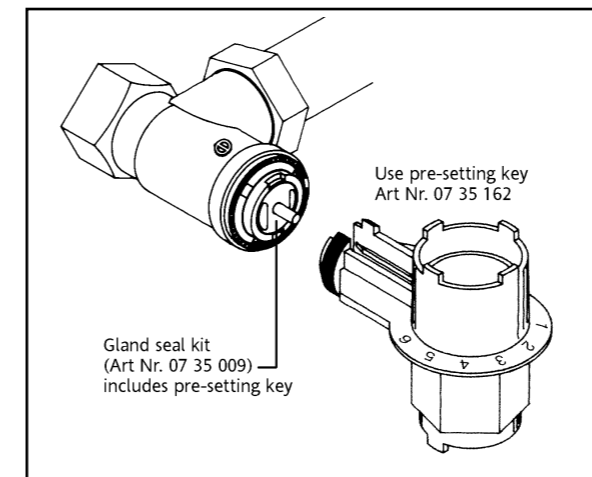
It is strongly recommended that the differential pressure across the thermostatic valves should not exceed 0.2 bar to avoid flow related noise. A differential pressure regulating device, e.g. the Drayton DTB Automatic by-pass valve should be used. Please refer to our data sheet D30.

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.

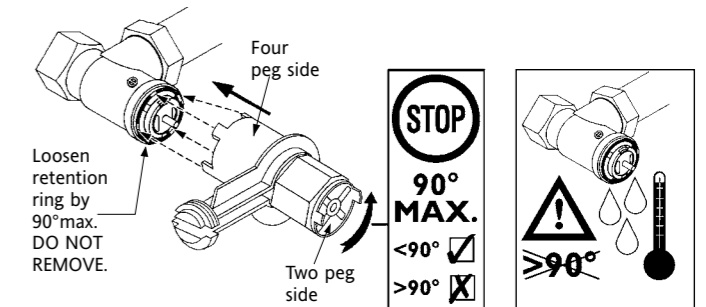
Replacement of gland seal

1. Gland seal can be replaced without draining the system. However there may be a slight seepage of water when the old seal is removed. It is recommended that dust sheets/small bowl is used to catch any drips.
2. Use the presetting key to remove the old gland seal (see diagram).
3. Fit new Gland Seal and Re-tighten until the top of the Gland Seal is level with the top lip of the valve insert. DO NOT OVER TIGHTEN.

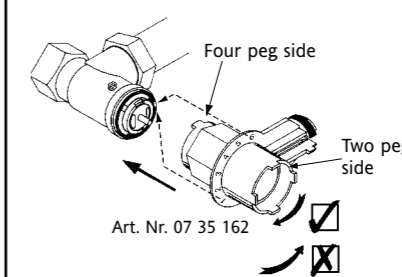


Balancing using the pre-setting facility

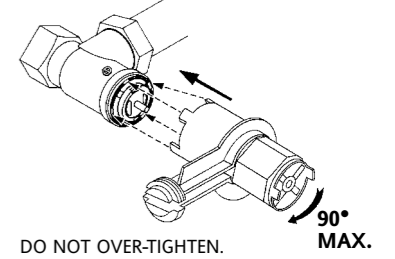
- 1 Use pre-setting key Art Nr. 07 35 162



- 2 Number lines up with notch in body. Adjust by whole numbers, not half numbers, in clockwise direction only.



- 3 Re-tighten retention ring



Replacement parts on EB bodies

