

Manual Radiator Valves

Features and benefits

The valves have a chrome plated finish making them hard wearing, attractive and stylish. With a dual 15mm x 1/2in connection, they suit both copper and iron pipework. The matching lock shield complements the wheel head and TRV design. The concealed lock shield cap requires an Allen key to adjust flow, preventing accidental tampering.

The upper O-ring seal can be changed without draining down, which minimises down-time thus saving cost on site.

Approved to BS2767-10; guaranteed internal dimensions, minimising resistance to ensure maximum flow. Valves are suited for both open vented and sealed systems.

Manuals	Angle valve product code	Angle concealed product code	Straight concealed product code
CPWH	49341004		
CPLS	49341015	49341026	49341037

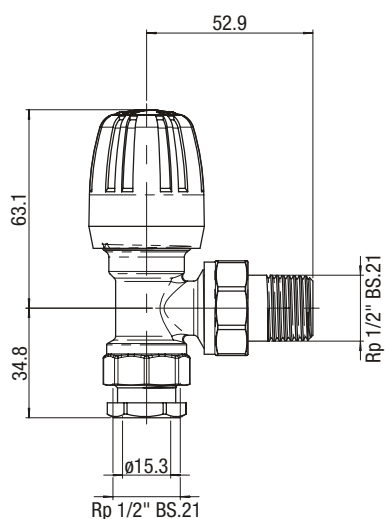
Maximum pressure	10 bar at 65°C
Maximum temperature	120°C at 5bar

Radiator Valves and TRVs

Manual Radiator Valves

Product Code

49341004

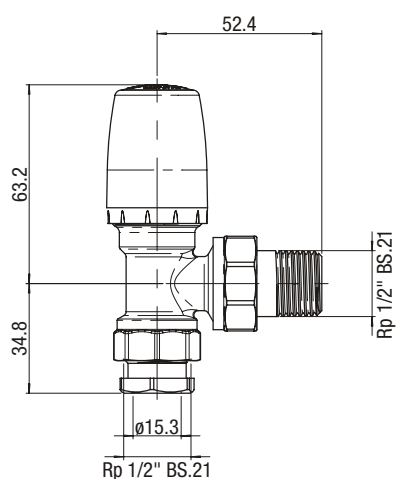


Chrome plated wheel head angle valve



Product Code

49341015



Chrome plated lock shield angle valve



Radiator Valves and TRVs

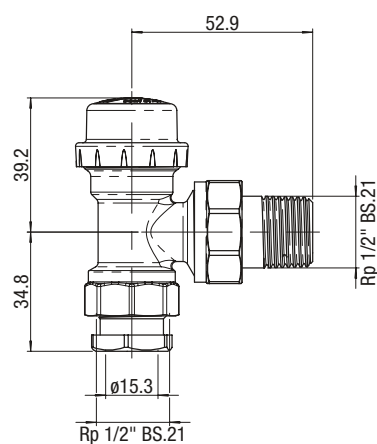
Manual Radiator Valves

Chrome plated angled lock shield valve concealed adjustment



Product Code

49341026

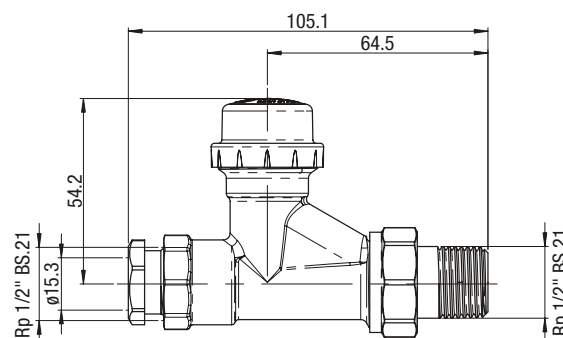


Chrome plated straight lock shield valve concealed adjustment



Product Code

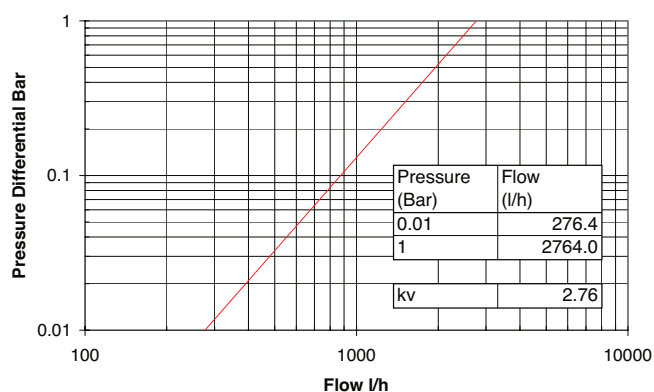
49341037



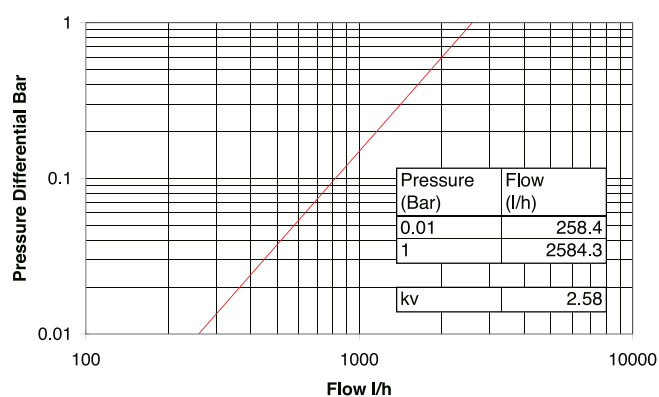
Radiator Valves and TRVs

Flow data

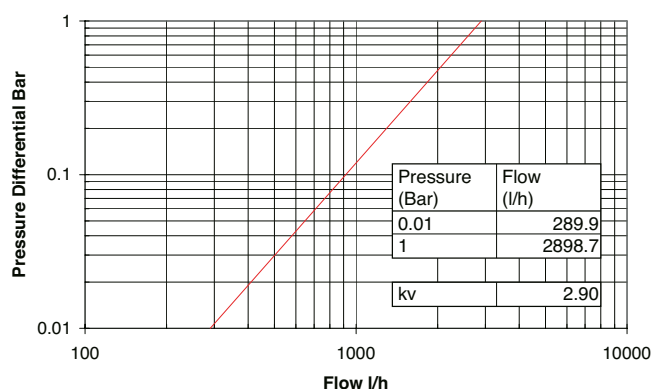
Manual Handwheel and Lockshield Angle Pattern Forward Flow



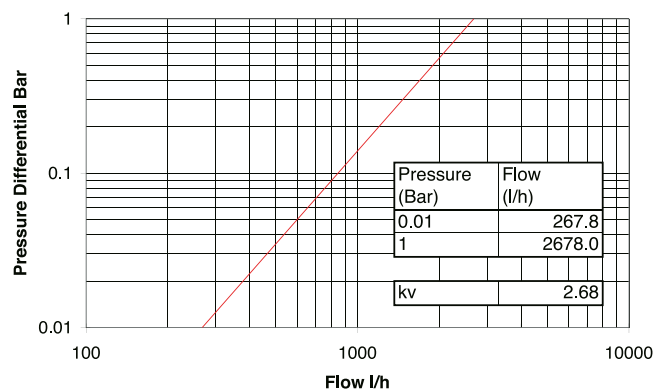
Manual Handwheel and Lockshield Angle Pattern Reverse Flow



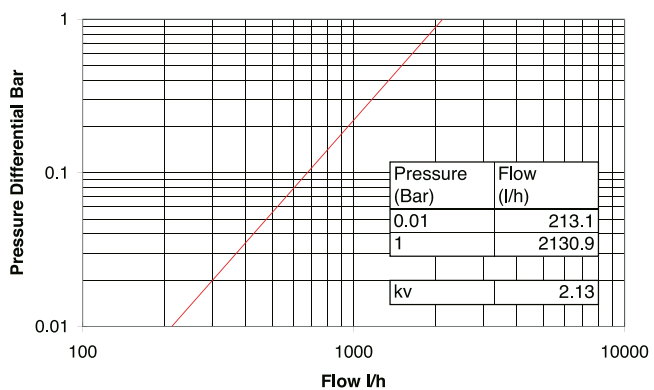
Concealed Lockshield Angle Pattern Forward Flow



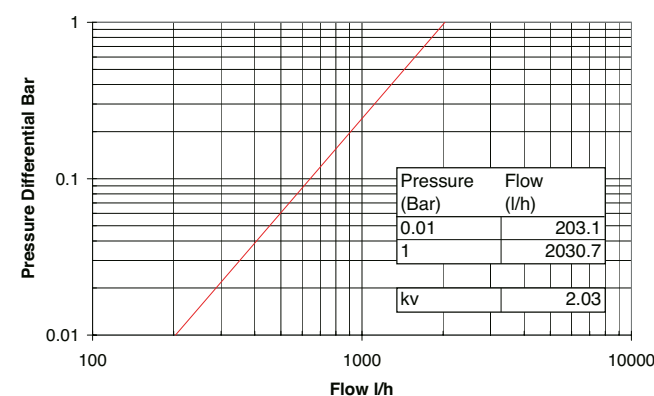
Concealed Lockshield Angle Pattern Reverse Flow



Concealed Lockshield Straight Pattern Forward Flow



Concealed Lockshield Straight Pattern Reverse Flow



Radiator Valves and TRVs

Thermostatic Radiator Valves

Features and Benefits

With a control range of 11 to 29°C, this allows flexibility in setting comfort levels and optimises energy efficiency. The valve has a frost setting, opening automatically around 7°C to prevent the system freezing. Positive shut off allows the heat emitter to be isolated for maintenance. The range limiting and locking prevents over or under heating in public areas and optimises energy efficiency, whilst the limiting and locking pins allow the user to customise temperature settings. The built in tamper proof key operated setting is simple to lock and secure with an easy to use release tool. The lift and lock operation prevents accidental adjustment. The TRV has a liquid-filled head and can be mounted on the flow or return.

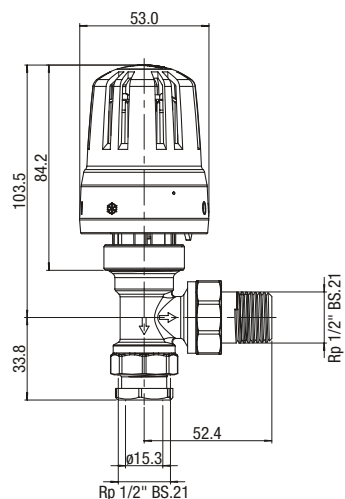
Thermostatic	Horizontal TRV	Vertical TRV
Radiator Valves	Product Code	Product Code
½in to 15mm	49341048	49341059

Radiator Valves and TRVs

Thermostatic Radiator Valves

Product Code

49341059

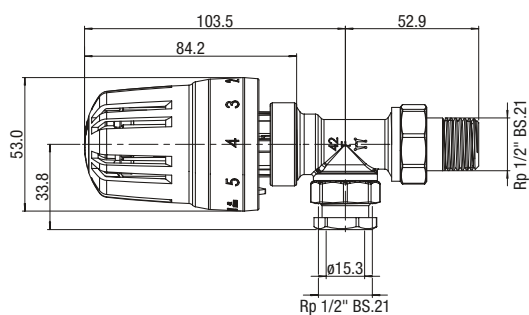


TRV Vertical



Product Code

49341048



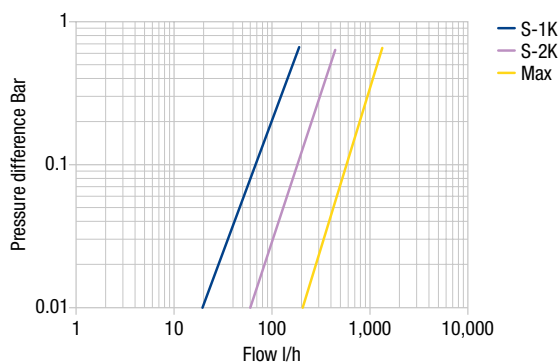
TRV Horizontal



Radiator Valves and TRVs

Thermostatic Valves – Non-Presetting

Angle/reverse angle/straight pattern forward flow



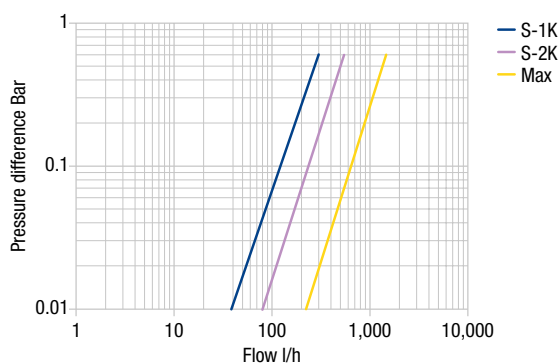
Angle/reverse angle/straight pattern – forward flow

Nominal flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
206	0.1	0.01	0.9

Kv, angle/reverse angle/straight pattern – forward flow

	Kv
S-1K	0.23
S-2K	0.52
Max	1.74

Angle/reverse angle pattern reverse flow



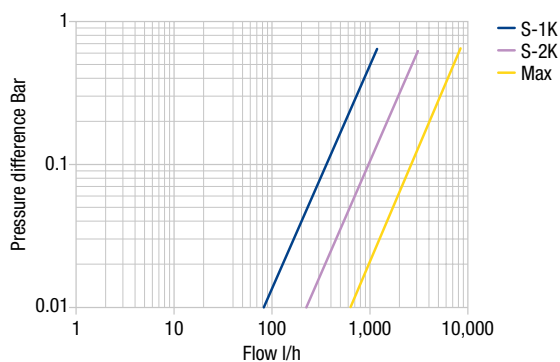
Angle/reverse angle – reverse flow

Nominal flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
220	0.1	0.01	0.9

Kv, angle/reverse angle – reverse flow

	Kv
S-1K	0.38
S-2K	0.74
Max	1.94

Straight pattern forward flow



Straight pattern – reverse flow

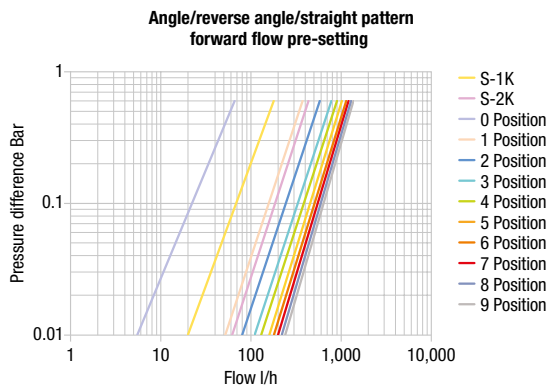
Nominal flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
184	0.1	0.02	0.8

Kv, straight pattern – reverse flow

	Kv
S-1K	0.25
S-2K	0.54
Max	1.13

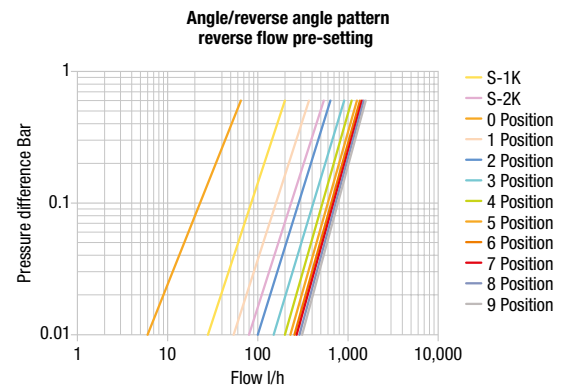
Radiator Valves and TRVs

Thermostatic Valves – Presetting



Angle/reverse angle/straight pattern – forward flow – pre-setting				
Setting	Nominal/ characteristic flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
0	44	0.1	0.1	0
1	151	0.1	0.1	0
2	206	0.1	0.068	0.32
3	206	0.1	0.037	0.63
4	206	0.1	0.027	0.73
5	206	0.1	0.02	0.8
6	206	0.1	0.015	0.85
7	206	0.1	0.011	0.89
8	206	0.1	0.009	0.91
9	206	0.1	0.006	0.94

Kv, angle/reverse angle/straight pattern – forward flow – pre-setting			
	Kv		Kv
S-1K	0.23	4	1.16
S-2K	0.56	5	1.32
0	0.09	6	1.47
1	0.48	7	1.56
2	0.75	8	1.67
3	1.01	9	1.77

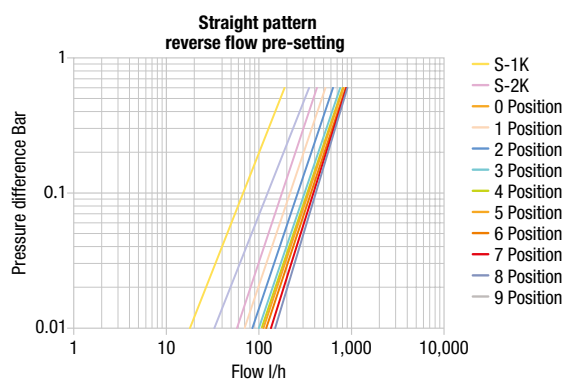


Angle/reverse angle pattern – reverse flow – pre-setting				
Setting	Nominal/ characteristic flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
0	45	0.1	0.1	0
1	164	0.1	0.1	0
2	220	0.1	0.062	0.38
3	220	0.1	0.032	0.68
4	220	0.1	0.019	0.81
5	220	0.1	0.0125	0.875
6	220	0.1	0.009	0.91
7	220	0.1	0.0065	0.935
8	220	0.1	0.005	0.95
9	220	0.1	0.004	0.96

Kv, angle/reverse angle pattern – reverse flow – pre-setting			
	Kv		Kv
S-1K	0.26	4	1.42
S-2K	0.7	5	1.63
0	0.08	6	1.76
1	0.48	7	1.85
2	0.83	8	1.94
3	1.17	90	2.03

Radiator Valves and TRVs

Thermostatic Valves – Presetting



Straight pattern – reverse flow – pre-setting				
Setting	Nominal/ characteristic flow kg/h	$\Delta P1$ Bar	$\Delta P2$ Bar	Seat authority a
0	30	0.1	0.1	0
1	120	0.1	0.1	0
2	184	0.1	0.0765	0.235
3	184	0.1	0.0464	0.536
4	184	0.1	0.036	0.64
5	184	0.1	0.0275	0.725
6	184	0.1	0.022	0.78
7	184	0.1	0.0215	0.785
8	184	0.1	0.0188	0.812
9	184	0.1	0.018	0.82

Kv, straight pattern – reverse flow – pre-setting			
	Kv		Kv
S-1K	0.25	4	1.04
S-2K	0.55	5	1.06
0	0.45	6	1.12
1	0.68	7	1.14
2	0.82	8	1.17
3	0.98	9	1.2

Radiator Valves and TRVs

Thermal Head Options

Features and benefits

With a control range of 11 to 29°C, this allows flexibility in setting comfort levels and optimises energy efficiency. The valve has a frost setting, opening automatically around 7°C to prevent the system freezing. Positive shut off allows the heat emitter to be isolated for maintenance. The range limiting and locking prevents over or under heating in public areas and optimises energy efficiency, whilst the limiting and locking pins allow the user to customise temperature settings. The built in tamper proof key operated setting is simple to lock and secure with an easy to use release tool. The lift and lock operation prevents accidental adjustment.

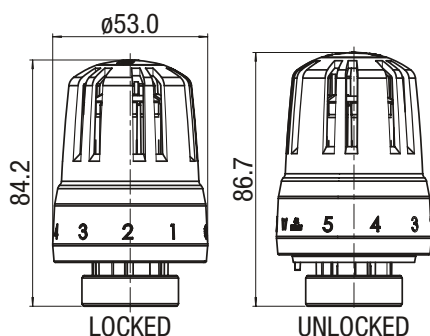
Thermal heads	Thermal Head Product Code	Remote Sensor / Adjuster Product Code
Thermal head 0 position	49341070	
2m remote sensor		49341081
8m remote sensor		49341229
2m remote adjuster		49341092
8m remote adjuster		49341100

Thermal head with 0 position

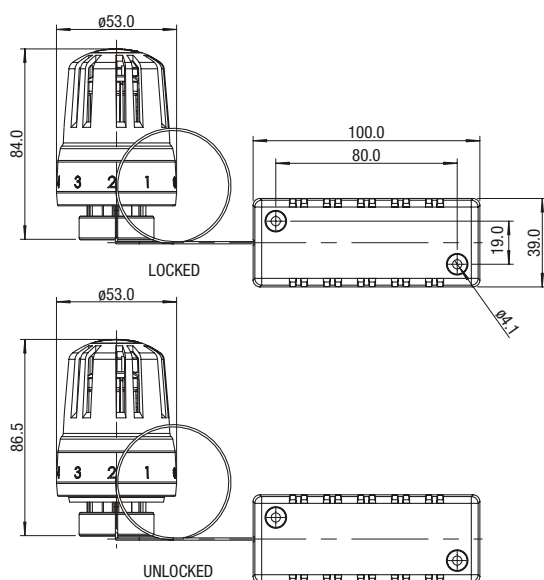
0	*	1	2	3	4	5
shut off	7°C	11-13°C	15-17°C	19-21°C	22-25°C	27-29°C

Product Code

49341070



Head with 2 or 8m remote sensor



Sensor length	Product Code
2m	49341081
8m	49341229

Remote sensing prevents curtains or office equipment interfering with thermal head.

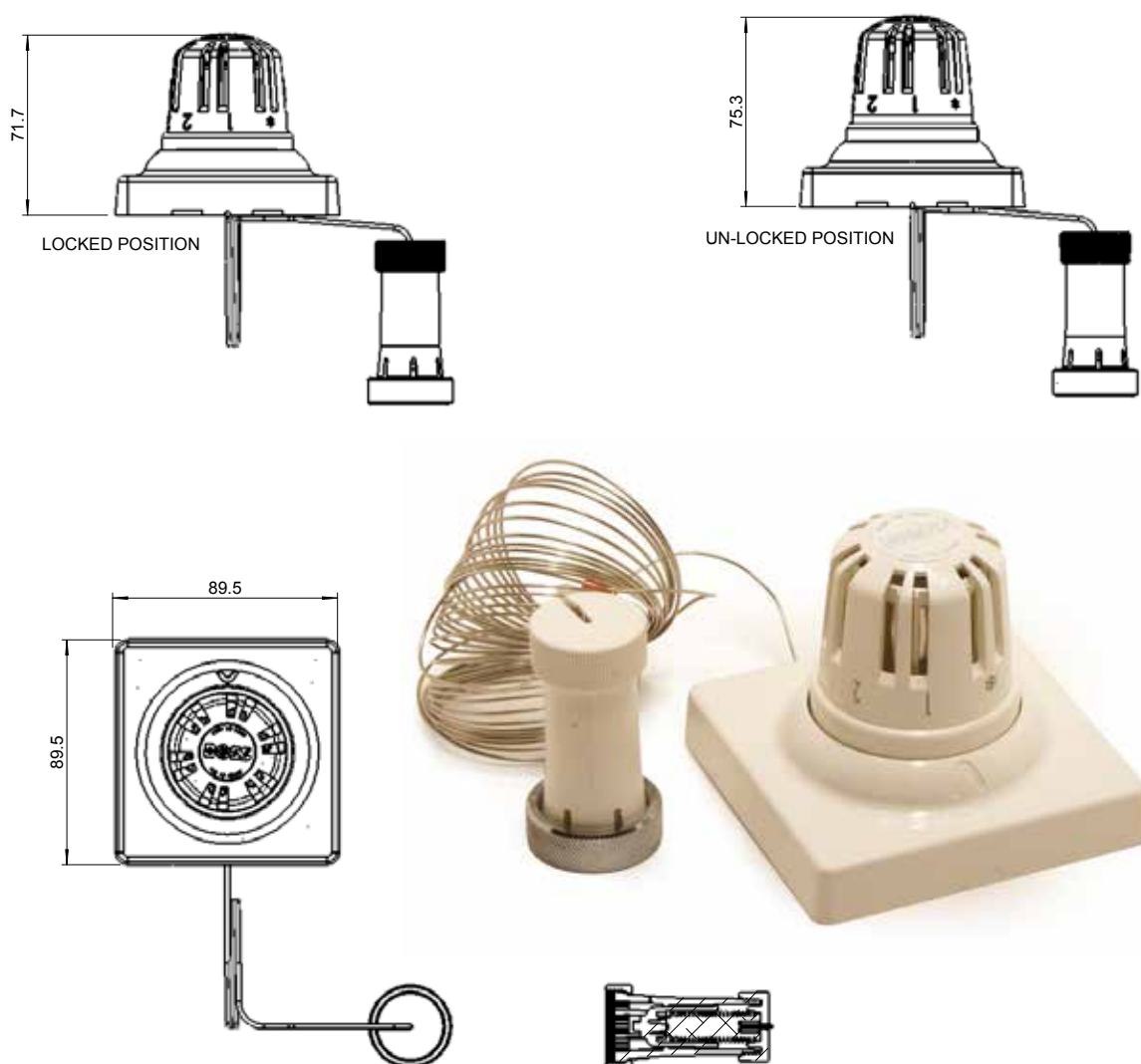
Sensor can be placed 2 or 8m away from head.

Also suitable for LST radiators.

Radiator Valves and TRVs

Thermal Head Options

Head with 2m or 8m remote adjuster



Remote adjuster provides temperature control.

Sensor can be placed 2m and 8m away from head.

Sensor length	Product Code
2m	49341092
8m	49341100

Features and benefits

The valves have a chrome plated finish making them hard wearing, attractive and stylish. They are approved to EN215 guaranteeing thermal and hydraulic performance. The double O-ring seal offers double seal protection. The gland removal tool accessory allows the gland to be changed without draining down the system. With a dual 15mm x 1/2in connection, they suit both copper and iron pipe work. The preset valves have pre-setting mechanism that enables the user to adjust the maximum flow accurately from a chart provided.

The two way operation provides reverse flow operation capability and operates quietly whatever the flow direction.

A comprehensive range of heads enables the customer to meet a wide variety of installation applications.

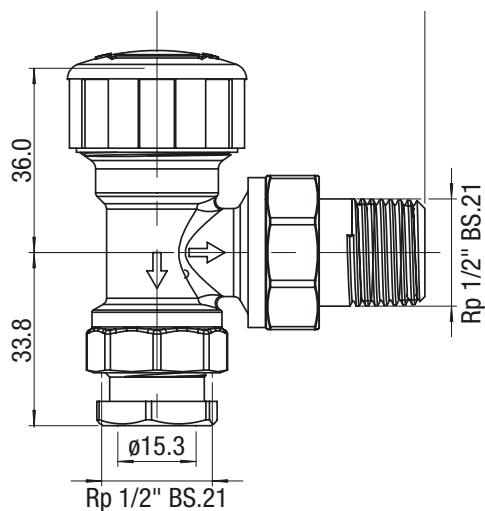
Valve Body	Angle horizontal Product Code	Angle vertical Product Code	Straight Product Code
1/2in-15mm	49341111	49341122	49341133
Preset	—	49341144	49341155

Maximum pressure	10 bar at 65°C
Maximum temperature	120°C at 5bar

Radiator Valves and TRVs

Thermal Body Options

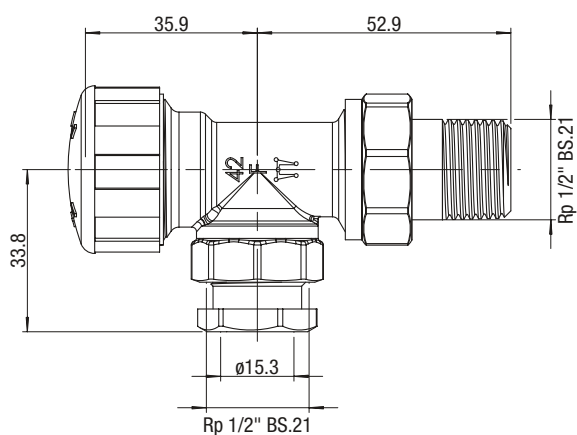
Chrome plated TRV body angle vertical



Product Code
49341122



Chrome plated TRV body reverse angle



Product Code
49341111



Radiator Valves and TRVs

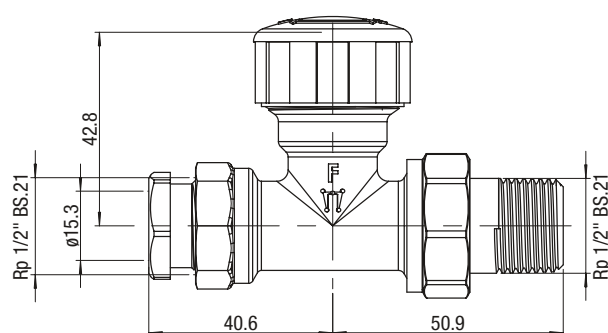
Thermal Body Options

Chrome plated TRV body straight



Product Code

49341133

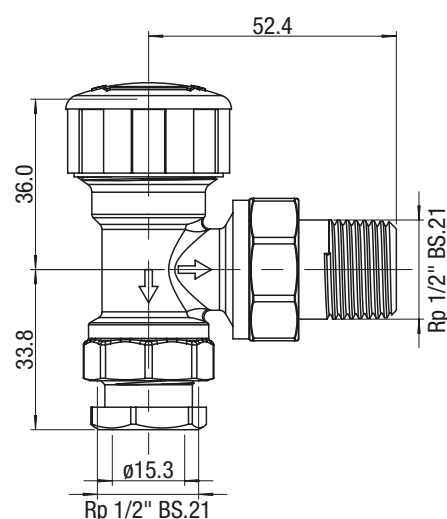


TRV body preset angle vertical



Product Code

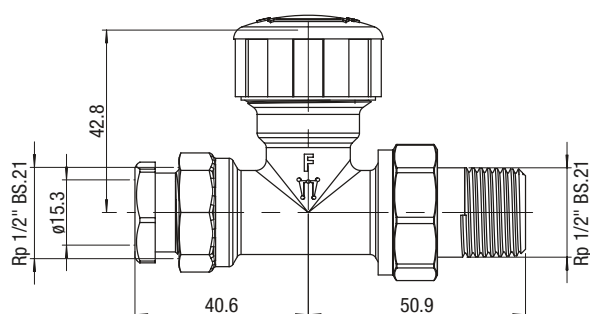
49341144



Radiator Valves and TRVs

TRV body preset straight

TRV body preset straight



Product Code
49341155



Radiator Valves and TRVs

Mini Ball Radiator Valves

Radiator Valves and TRVs

Manual Radiator Valves

Dimensions

Straight Radiator Valve

Size	Material	Finish	Code
1/4in	Brass	Nickel Plated	86315839
3/4in	Brass	Nickel Plated	86315850



Angled Drain Valve

Size	Material	Finish	Code
1/4in	Brass	Nickel Plated	86310209

