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Mistral II

Installation & Operating Instructions

INTRODUCTION

This thermostatic radiator valve (TRV) set has been produced to the highest quality standards and developed to offer the installer a suitable TRV that is for any application.

The bi-direction TRV is available as a single TRV or as a pack that includes a manual lockshield with or without drain-off facility.

INSTALLATION INSTRUCTIONS

Compression x compression TRV

The Mistral II bi-directional TRV body may be installed in either vertical or horizontal positions, in either flow or return. For best performance we recommend the valves be fitted with the headwork mounted vertically but where space is limited, the valve may be installed with the head mounted horizontally.

Installation procedures for Mistral II TRV bodies

Prior to installing the TRV bodies ensure the system is free from debris and contamination and installed in accordance with good plumbing practice. The white protective cap fitted on the valve body may be used as a temporary ON/OFF control device prior to fitting the thermostatic head.

Fitting thermostatic heads

Open thermostatic head to position 5 and position the head so the setting can be viewed and then hand tighten the securing ring. When installation is complete and the system is running normally, adjust the thermostatic head to the preferred setting for individual rooms then snap on the decorative cap.

(Only remove white protective cap from valve body immediately before fitting the thermostatic head).

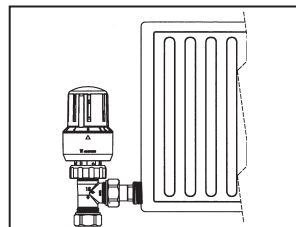
OPERATING YOUR MISTRAL II TRV

Setting the TRV

Initially set the TRV to the required room temperature from the table in temperature settings e.g. Position 3 - 20°C. The TRV should be left for at least 1 hour to allow the temperature to stabilise. If a higher or lower room temperature is required simply adjust the setting accordingly and repeat the process.

Frost Protection

If you plan to be away from home for any length of time, the TRV can be turned to the frost protection setting " * ". If the temperature falls below 7°C the valve will automatically open, giving protection against freezing. (Provided that the boiler remains in operation, via a thermostat).

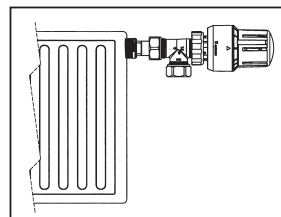


Mistral II TRV bodies

The TRV can be fitted as easily as a manual radiator valve.

To avoid the problem of hydronic (water flow) noise it is recommended that the differential pressure does not exceed 0.2 Bar. It is strongly recommended that an automatic bypass valve be fitted to any system fitted with TRV's.

The lockshield valve must also be set to control the water flow through the radiator to the correct level.



Removal of Radiator

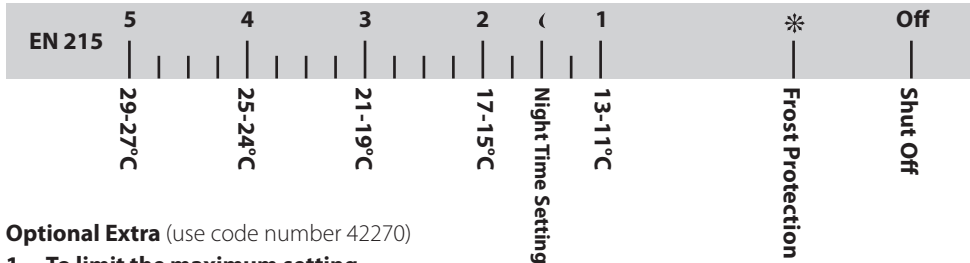
The "0" Setting on the TRV is a positive "Off" position which will enable a radiator to be removed for maintenance purposes.

To avoid accidental operation of the valve or accidental damage whilst decorating the manual shut off cap may be used for added security instead of the TRV head. In this case, remove the TRV sensor head, by unscrewing the securing ring, and replacing with the manual cap and turning to the "Off" position BEFORE removing the radiator.

TEMPERATURE SETTINGS

There are 8 positions on the TRV headwork

These temperatures will vary slightly, depending upon nature of installation.



Optional Extra (use code number 42270)

1. To limit the maximum setting.

Remove the head and set to the maximum desired position. Insert the 'Locking Pin' under the base, one segment to the right of LOCK position. [A slight rotation of the head may be required to allow full insertion of the Locking Pin] The temperature has now been limited to the desired position.

2. To lock a pre-determined setting.

Set to the desired locking position.

Insert the 'Locking Pin' under the base, into the segment in line with the LOCK position. [A slight rotation of the head may be required to allow full insertion of the Locking Pin] The desired set temperature is now locked in place.



Mistral II Lockshield Radiator Valves

Compression x compression

Both ends of the 15 x 1/2" Mistral II valve body are threaded 1/2" BSP enabling this size of valve to be fitted to the tailpipe in the radiator either vertically or horizontally.

N. B. In the event that a radiator needs to be removed e.g. for decoration purposes, remove the lockshield top and rotate the spindle using a small adjustable spanner turning clockwise to the closed position.

Technical Data

Temperature Range	7°C - 28°C
Maximum Test Pressure	20 bar
Maximum Static Pressure	10 bar
Nominal Flow Rate	195kg/h

Technical Data

Maximum Differential Pressure	0.6 bar
Maximum Water Flow Temperature	120°C

Please Note: For further information, please contact our technical department: 0870 120 0285

For further information, please contact your appropriate Sales Officer:

Head Office Sales - Tel: 0113 270 6945 / 0113 272 5380 • Fax: 0113 270 5644 / 0113 272 5385

Northern Ireland - Tel: 028 9070 6990 • Fax: 028 9070 6999

Export - Tel: +44 (0) 113 270 110 • Fax: +44 (0) 113 271 6250

Kitemark™ Certificate

This is to certify that:

Aalberts Integrated Piping Systems Ltd
Belmont Works
St Catherines Avenue
Doncaster
DN4 8DF
United Kingdom

Holds Certificate Number:

KM 786727

In respect of:

BS EN 215
Thermostatic Radiator Valves

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.



For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

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Latest Issue: 2023-05-03

Expiry Date: 2024-09-28

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Kitemark™ Certificate

No. KM 786727

BS EN 215:2019 - Thermostatic Radiator Valves

Terrier II Two Way

Thermostatic radiator valve / sensor head integral

Terrier II Two Way Chrome

Thermostatic radiator valve / sensor head integral

Terrier II BG White/Chrome

Thermostatic radiator valve / sensor head integral

Terrier II BG

Thermostatic radiator valve / sensor head integral

Terrier III

Thermostatic radiator valve / sensor head integral

Terrier Decor White

Thermostatic radiator valve / sensor head integral

Terrier Decor Black

Thermostatic radiator valve / sensor head integral

Terrier Decor Chrome

Thermostatic radiator valve / sensor head integral

Terrier Decor Mixed Chrome

Thermostatic radiator valve / sensor head integral



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Kitemark™ Certificate

No. KM 786727

BS EN 215:2019 - Thermostatic Radiator Valves

Mistral II

Thermostatic radiator valve / sensor head integral

Mistral II Chrome

Thermostatic radiator valve / sensor head integral

PTS Boss TRV Chrome

Thermostatic radiator valve / sensor head integral

Regis II

Thermostatic radiator valve / sensor head integral

Regis II Chrome

Thermostatic radiator valve / sensor head integral

Bulldog II

Thermostatic radiator valve / sensor head integral

Westerm

Thermostatic radiator valve / sensor head integral

Boss Supreme

Thermostatic radiator valve / sensor head integral

B 1301 - 0/4

Thermostatic radiator valve / sensor head integral

B 1401 - 0/4

Thermostatic radiator valve / sensor head remote

B 1701 - 0/4

Thermostatic radiator valve / sensor head remote incorporating the selector

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BS EN 215:2019 - Thermostatic Radiator Valves

Information declared by manufacturer

Terrier TRV Range

1/2" x 15mm Angle TRV Valve
1/2" x 15mm Straight TRV Valve
1/2" x 15mm Mistral II Angle TRV Valve
1/2" x 15mm Mistral II Straight TRV Valve
Terrier Thermal Head
Terrier Thermal Head Chrome Plated
Terrier II BG White/Chrome
Terrier II BG
Terrier III
Mistral II Thermal Head
Mistral II Thermal Head Chrome
PTS Boss TRV Chrome
Regis
Regis Chrome Plated Thermal Head
Regis II
Regis II Chrome Plated
Bulldog II
Westherm
Boss Supreme

Nominated Flow Rates

1/2" x 15mm Angle TRV Valve Forward and Reverse Flow	190 kg/h
1/2" x 15mm Straight TRV Valve Forward and Reverse Flow	190 kg/h
1/2" x 15mm Mistral II Angle TRV Valve Forward and Reverse Flow	190 kg/h
1/2" x 15mm Mistral II Straight TRV Valve Forward and Reverse Flow	190 kg/h
Terrier III	190 kg/h

Hysteresis

All Thermal Heads	0.75 K
Terrier III	0.6 K

Differential Pressure Influence

All Thermal Heads	0.15 K
Terrier III	0.1 K

Water Temperature Influence

Thermal Heads with plain base	0.9 K
Thermal Heads with Chrome plated base	1.2 K
Terrier III	1.1 K

Response Time

All Thermal Heads	20 min
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BS EN 215:2019 - Thermostatic Radiator Valves

Information declared by manufacturer

Terrier Décor TRV Range

½" x 15mm Angle TRV Valve

½" x 15mm Straight TRV Valve

Terrier Decor White Thermal Head

Terrier Decor Anthracite Thermal Head

Terrier Decor Chrome Thermal Head

Terrier Décor Mixed Chrome

Nominated Flow Rates

½" x 15mm Angle TRV Valve Forward and Reverse Flow

½" x 15mm Straight TRV Valve Forward and Reverse Flow

190 kg/h

190 kg/h

Hysteresis

All Thermal Heads

0.62 K

Differential Pressure Influence

All Thermal Heads

0.08 K

Water Temperature Influence

Chrome Thermal Heads

White and Anthracite Thermal Heads

0.9 K

1.2 K

Response Time

All Thermal Heads 20 mins

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BS EN 215:2019 - Thermostatic Radiator Valves

Information declared by manufacturer

Boss Range

1/2" Vertical TRV valve
1/2" Vertical TRV valve pre-setting
1/2" Horizontal TRV valve
1/2" Horizontal TRV valve pre-setting
1/2" Straight TRV valve
1/2" Straight TRV valve pre-setting
3/4" Vertical TRV valve
3/4" Vertical TRV valve pre-setting
3/4" Horizontal TRV valve
3/4" Horizontal TRV valve pre-setting
3/4" Straight TRV valve
3/4" Straight TRV valve pre-setting
Standard Thermal Head
Remote Sensing Thermal Head
Remote Adjusting Thermal Head

Nominated Flow rates

1/2" Angle and reverse angle forward flow
1/2" Angle and reverse angle reverse flow
1/2" Straight pattern forward and reverse flow
3/4" patterns 265 kg/h

206 kg/h
220 kg/h
195 kg/h

Hysteresis

0.5 K

Differential Pressure influence

All variants forwards
All variants reverse -

0.15 K
0.25 K

Water Temperature Influence

Fixed thermal head
Remote sensing and remote adjusting heads

0.9 K
0.5 K

Response time

All TRV head variants - vertical
All TRV head variants - horizontal

24 minutes
20 minutes

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BS EN 215:2019 Thermostatic Radiator Valves

Information declared by manufacturer

Pre-setting Valve Characteristic Flow

	½" angle / reverse angle pattern forward flow	½" angle / reverse angle pattern reverse flow	½" straight pattern forward & reverse flow	¾" angle / reverse angle pattern forward flow	¾" angle / reverse angle pattern reverse flow	¾" straight pattern forward & reverse flow	Tolerance
Setting	Kg/hr	Kg/hr	Kg/hr	Kg/hr	Kg/hr	Kg/hr	%
0	44	45	40	0	0	0	40
1	151	164	130	75	28	88	20
2	206	220	195	205	185	150	10
3	206	220	195	265	265	240	10
4	206	220	195	265	265	265	10
5	206	220	195	265	265	265	10
6	206	220	195	265	265	265	10
7	206	220	195	265	265	265	10
8	206	220	195	265	265	265	10
9	206	220	195	265	265	265	10

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