



Rheem New Zealand Ltd

Specification and Commissioning Instructions Manifolded Rheem Continuous Flow

It is possible to manifold up to six Rheem Continuous Flow Water Heaters in a single bank for "dead leg" systems.

Installation and commissioning must comply with the following instructions for the product to meet performance requirements.

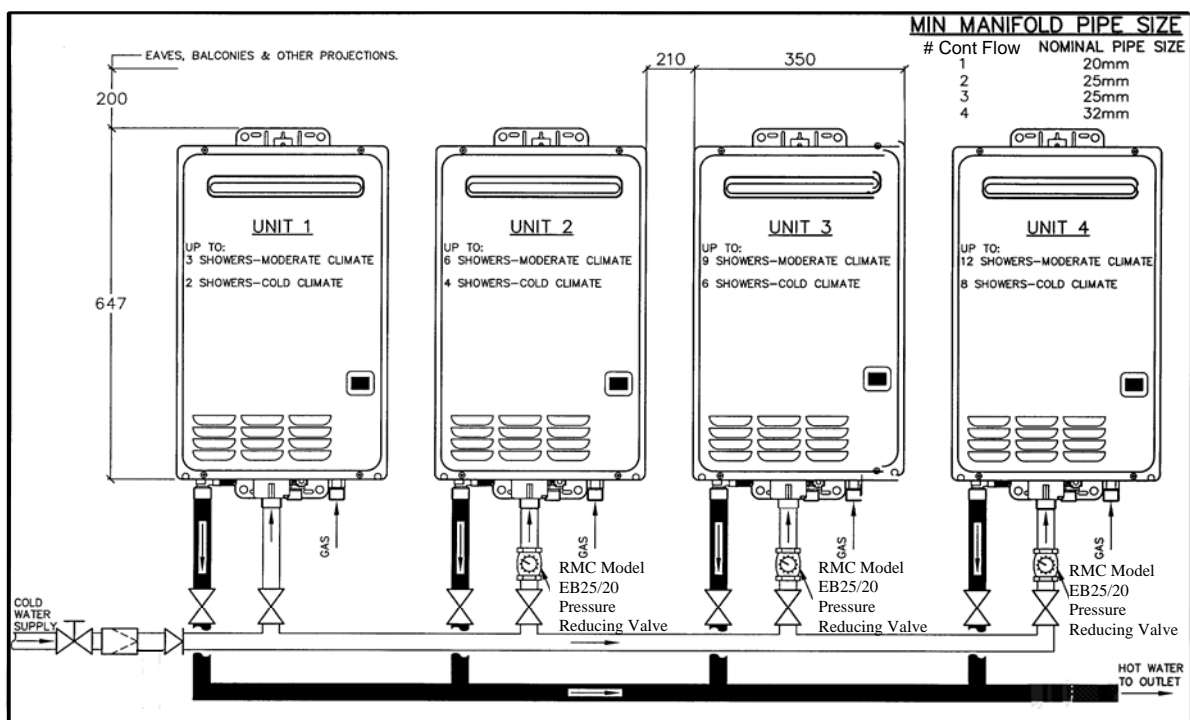
1. The units must be installed in accordance with the Rheem drawing below and installation instructions and must comply with the requirements of AS/NZS 3500.4, NZ 5261, AS 3000 and all local codes and regulatory requirements.

2. Water heaters are to be set to turn on and off in the following manner:

No. of Showers	1	2	3	4	5	6	7	8	9	10	11	12
No. of Continuous Flow Moderate Climate	1	1	1	2	2	2	3	3	3	4	4	4
No. of Continuous Flow Cold Climate	1	1	2	2	3	3	4	4	-	-	-	-

3. Ensure water, gas and electricity are available to the water heaters.
4. Lift the adjustment knob on the EB valves.
5. Open 1 x hot (shower) tap at between 7-8 litres/min. The first unit (without EB valve) should ignite and provide hot water.
6. Set the temperature of any temperature limiting device installed downstream of the manifold, before proceeding.
7. Open the maximum number of showers suitable for 1 x Rheem Continuous Flow in accordance with the appropriate climate chart above. Ensure each shower is operating at an equal flow rate. Only the first heater should be on. If other units are on, adjust the EB valves until the units turn off.
Anti clockwise = Delay unit ignition, decrease flow/pressure
Clockwise = Bring forward unit ignition, increase flow/pressure
8. Open the next shower. Adjust the EB valves, if necessary, to ensure only the first and second water heaters are on.
9. Turn off the previous shower. The second unit should turn off. Adjust the EB valve if necessary.

10. Open the number of showers suitable for 2 x Rheem Continuous Flow water heaters, in accordance with the appropriate climate chart above. Heaters 3 and 4 should not be on. Adjust the EB valves to turn these units off, if required.
11. Open the next shower. Adjust the EB valves, if necessary, to ensure only the first, second and third water heaters are on.
12. Turn off the previous shower. The third unit should turn off. Adjust the EB valve if necessary.
13. Open the number of showers suitable for 3 x Rheem Continuous Flow water heaters, in accordance with the appropriate climate chart above. Heater 4 should not be on. Adjust EB valve to turn the unit off, if required.
14. Open the next shower. Unit 4 should turn on. Adjust the EB valve, if necessary.
15. Turn off the previous shower. The fourth unit should turn off. Adjust the EB valve if necessary.
16. Commissioning is now complete. Turn off all showers, press down on EB valve adjustment knob, clicking it into the original position.



RHEEM CONTINUOUS FLOW MANIFOLD INSTALLATION UP TO 4 UNITS – DEAD LEG SYSTEM

Pressure Reducing Valve

Description

The RMC *Pressure Reducing Valve* is used in water systems to limit the downstream pressure to the pre-set maximum. It compensates for fluctuating upstream pressure to maintain constant maximum outlet pressure.

Features of the *Pressure Reducing Valve* make it most suitable for demanding commercial and industrial applications and multi-unit dwellings.

The RMC *Pressure Reducing Valve* can be used to reduce pressure upstream of commercial and industrial devices such as dosing apparatuses, high-pressure cleaners and laboratory equipment. The RMC *Pressure Reducing Valve* can deliver high flow rates with minimal head loss.

The RMC *Pressure Reducing Valve* is available in 15 mm, 20 mm, 25 mm, 32 mm, 40 mm, and 50 mm configurations with female BSP thread connections.

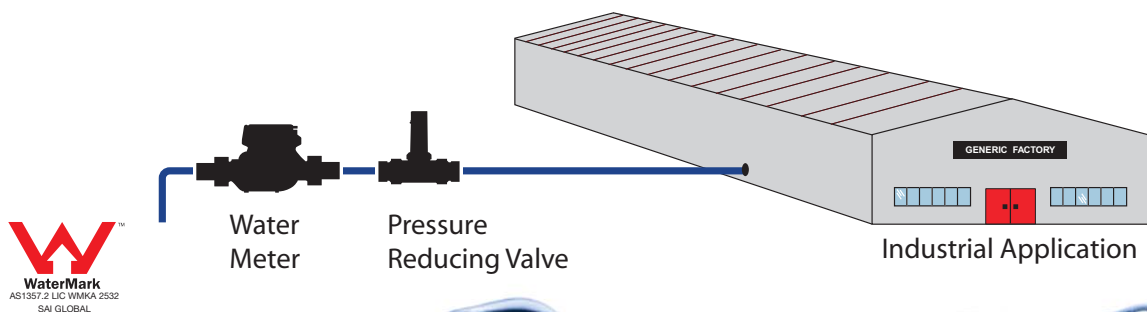


Features and Benefits

- ❖ Tool-free adjustment
 - » Simply lift and twist the setting knob to desired pressure
- ❖ Protects downstream installations from excess supply pressure
 - » Reduces maintenance and repair costs on expensive equipment
- ❖ Simple single piece cartridge based design
 - » Valve and strainer can be serviced without disassembly and without resetting pressure
- ❖ Cutting edge design incorporating patented Micro-Finger cartridge
 - » Dissipates noises due to water flow across the seat providing a quieter installation
- ❖ Integrated gauge port
 - » Provides convenient access point for testing and setting pressure
- ❖ Reduced water consumption
 - » Improved economy of service with ecological benefits
- ❖ Can be installed in any orientation
 - » Suitable for a wide range of installation arrangements

Application

The RMC *Pressure Reducing Valve* is for use in industrial and commercial installations. Fitting the valve at the mains supply protects downstream installations from variations in supply pressure. Use of a Pressure Reducing Valve can minimise water wastage.



Pressure Reducing Valve

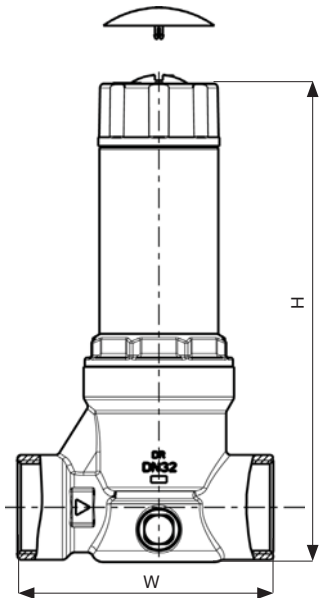
Specification

Maximum Inlet Pressure:	2000 kPa
Maximum Supply Temperature:	80° C
Adjustable Outlet Pressure Range:	155 – 550 kPa
Factory Set Pressure:	500 kPa
Fluid Media:	Water, compressed air, fuel oil, neutral non-adhesive fluids, neutral gases

Dimensions

Model	Width (W)	Height (H)	Outlet Size
Adjustable 155-550 kPa 15 mm	73	120	DN15
Adjustable 155-550 kPa 20 mm	75	120	DN20
Adjustable 155-550 kPa 25 mm	84	150	DN25
Adjustable 155-550 kPa 32 mm	114	216	DN32
Adjustable 155-550 kPa 40 mm	130	226	DN40
Adjustable 155-550 kPa 50 mm	140	226	DN50

NB: All dimensions in millimeters unless otherwise stated.



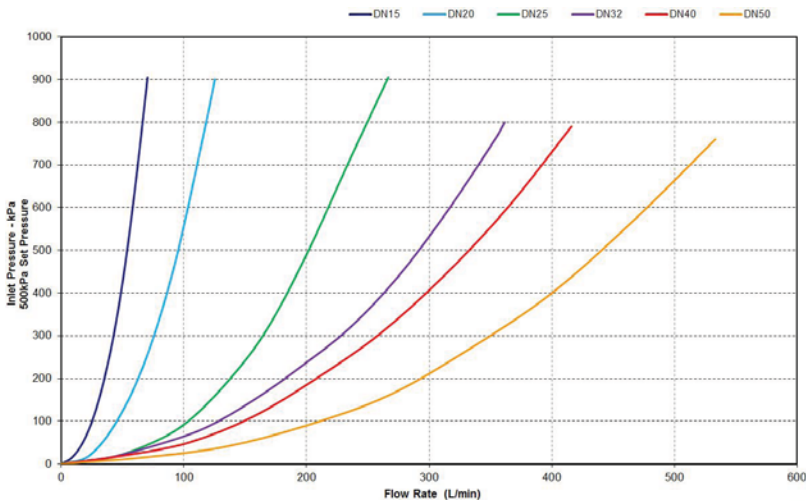
Materials

Body:	Forged Brass
Spring Chamber:	Nylon
Adjusting Spring:	Stainless Steel (zinc plated)
Pressure Plate:	Stainless Steel (zinc plated)
Diaphragm:	EPDM
Body Seat:	Polysulphone
Seat Disc:	EPDM
Piston:	Stainless Steel/Brass
Strainer Screen:	Stainless Steel

Catalogue Numbers

Model	Catalogue Number
Adjustable 155-550 kPa 15 mm Female BSP	PRV015
Adjustable 155-550 kPa 20 mm Female BSP	PRV020
Adjustable 155-550 kPa 25 mm Female BSP	PRV025
Adjustable 155-550 kPa 32 mm Female BSP	PRV032
Adjustable 155-550 kPa 40 mm Female BSP	PRV040
Adjustable 155-550 kPa 50 mm Female BSP	PRV050

Flow Characteristics



Reliance Worldwide reserves the right to change any product specification or information contained in this publication at any time and without notice.
© 2011. All Diagrams are illustrative only. Please consult OEM instructions and AS3500 for all installations.

