Valve Application Guide

Step 1 Determine the P&T Pressure Setting

The P&T Relief Valve setting should be the same as the working pressure on the water heater rating label. Refer to the label on the heater and the valve.



Step 2 Check you have the correct P&T Configuration

- a. If the water heater is a new installation, check that the P&T valve provided is rated the same as the maximum working pressure of the water heater.
- b. If the valve is a replacement valve (e.g. for maintenance purposes), ensure that the replacement P&T valve is of the exact same configuration and pressure setting as the valve it is replacing.



Expansion Control Valve



P&T Relief Valve

Step 3 Determine the maximum Expansion Control Valve Setting

The rating plates on all RMC water heater valves are colour coded to make selecting the correct valve easy. Simply match the P&T Relief Valve with a rating plate of the same colour. Other manufacturer's may use a different colour scheme or pressure range. Always replace with a genuine RMC valve to reduce the chance of voiding a manufacturer's warranty.

Rating Plate Colour	P&T Relief	Expansion control	Pressure Control Max Setting
	700kPa	550kPa	350kPa
	850kPa	700kPa	450kPa
	1000kPa	850kPa	500kPa
	1400kPa	1200kPa	600kPa

WHY RMC WATER VALVES?

RMC valves are tested and certified here in Australia under the WaterMark Certification Scheme, ensuring they are fit for purpose and authorised for use in all plumbing and drainage installations.

RMC Reliance Valves products are the premier choice of valves in the Australian plumbing marketplace. With a complete range of valves including thermostatic mixing valves, combination non-return and isolating valves and pressure control, temperature control and expansion control valves, RMC Reliance Valves is the leader in water control.







Contents of this brochure are subject to change.
Please visit our website for most up-to-date product information.





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RMC Reliance Valves is a division of Reliance Worldwide Corporation
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YOUR GUIDE TO WATER VALVES

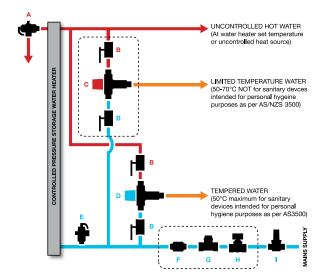


What valves do I need?

RMC water valves meet the needs of the wide variety of hot water systems on the market and the differing plumbing regulations around Australia. We offer the lot it's why we're the number one choice in plumbing valves.

Please refer to your local plumbing authority for system valve requirements in addition to water heater manufacturers' installation requirements. The general schematic below shows you "what goes where".

Controlled Pressure Water Heater:



- A. P&T Valve
- Isolating Valve
- Primary Temperature Control Valve
- HeatGuard Tempering Valve
- **Expansion Control Valve**
- Pressure Limiting Valve

Inlet Controls G.

- Line Strainer
- H. Non Return Isolation Valve
- Pressure Reduction Valve

HeatGuard™ Tempering Valve Selection Guide

RMC HeatGuard Tempering Valves provide reliable water temperature control in accordance with AS 4032.2.

These valves must be commissioned on site to achieve the desired outlet temperature. All valves should be installed in accordance with AS/NZS 3500 and state and local authority requirements.







	HeatGuard (Standard)	HeatGuard Ultra (High Performance)
1. MAINS PRESSURE STORAGE		
Stable supply pressure	✓	✓
Fluctuating supply pressure	-	✓
2. SOLAR		
Suitable for mains pressure solar	-	✓
Suitable for gravity fed solar	-	-
Suitable for uncontrolled heat source	-	✓
3. OTHER SYSTEMS/REQUIREMENTS		
Continuous flow water heaters	-	\checkmark
Instantaneous water heaters	-	\checkmark
Heat exchange water heaters	-	\checkmark
Pumped ring main / trace heated systems / fluctuating supply pressures	-	✓
Low pressure storage	-	-
Valve fitted remote from water heater near point of use	-	✓
Insulation Included	\checkmark	√

	HeatGuard Ultra HF (Large High Flow)
	✓
	-
	✓
	✓
	✓
	-
	-
	-
	-
	✓
	-
	-



Compact PRV Adjustable 150-600kPa

PRV15	15mm F x 15mm F
PRV20	15mm F x 15mm F
PRV25	15mm F x 15mm F



PRV Adjustable 155-550kPa

PRV015	15mm F x 15mm F	
PRV020	20mm F x 20mm F	
PRV025	25mm F x 25mm F	
PRV032	32mm F x 32mm F	
PRV040	40mm F x 40mm F	
PRV050	50mm F x 50mm F	

PRV High Pressure Adjustable 600-1000kPa

PRV032-1000	32mm F x 32mm F
PRV040-1000	40mm F x 40mm F
DD\/050-1000	50mm E v 50mm E



PRV (Commercial) Adjustable 350-750kPa

PRV50	50mm Flange
PRV65	65mm Flange
PRV80	80mm Flange
PRV100	100mm Flange
Table D Flange	/ Cold Water Only



Compact Right Angled PRV Fixed 500kPa

PRV20R 20mm Compact Right Angled



Pressure Limiting Valve Inline

PSL511	(1/2") 15mm F	x 15mm F - 350kPa
PSL512	(1/2") 15mm F	x 15mm F - 500kPa
PSL513	(1/2") 15mm F	x 15mm F - 600kPa
PSLC511	(1/2") 350kPa	*
PSLC512	(1/2") 500kPa	*
PSLC513	(1/2") 600kPa	*
PSL714	(3/4") 20mm -	350kPa **
PSL715	(3/4") 20mm -	500kPa **
PSL716	(3/4") 20mm -	600kPa **
PSL721	(3/4") 350kPa	*
PSL722	(3/4") 500kPa	*
PSL723	(3/4") 600kPa	*
* Male Comp	oression	**Tapered BSP Thread



PS501	(1/2") 15mm F x 15mm F - 350kPa
PS502	(1/2") 15mm F x 15mm F - 500kPa
PS503	(1/2") 15mm F x 15mm F - 600kPa
PSC501	(1/2") 350kPa *
PSC502	(1/2") 500kPa *
PSC503	(1/2") 600kPa *
PS701	(3/4") 20mm F x 20mm F - 350kPa
PS702	(3/4") 20mm F x 20mm F - 500kPa
PS703	(3/4") 20mm F x 20mm F - 600kPa
PS1001	(1") 25mm F x 25mm F - 350kPa
PS1002	(1") 25mm F x 25mm F - 500kPa
PS1003	(1") 25mm F x 25mm F - 600kPa

^{*} Male Compression

T Pattern

TEMPERING AND TEMPERATURE CONTROL



Tempering Valve

MIXID	ismm insulated
MIX20	20mm Insulated
MIX15U	15mm Ultra Insulated
MIX20U	20mm Ultra Insulated
MIX11511	Solar High Flow



SharkBite Tempering Valves

MIXSB16	Tempering Valve 16mm
MIXSB20	Tempering Valve 20mm
MIXF11012I	Tempering Valve 20mm
MIXF11116I	Tempering Valve 16mm - Solar
MIXF11117I	Tempering Valve 20mm - Solar
MIXRA11009I	CU Tempering 15mm Valve





Primary Temperature Control Valve

MIX11092 Primary Temperature Control Valve Adjustable Range: 50°C - 70°C **WARNING:** To be used only where fixtures allow above 50°C - 70°C as per AS3500



SharkBite 4-IN-1

MIX11014U	16mm Upwards
MIX11014D	16mm Downwards
MIX11013U	20mm Upwards
WIX11013D	20mm Downwards



Slick Combo Set

BALL VALVES

MIX12013I Slick Combo Set MIX12015I Solar Slick Combo Set All valves are insulated ECV not included

15mmM M/F *



Thermal Balancing Valve

TBV501	15mm F x 15mm F
TBV701	20mm F x 20mm F

Includes Insulation

NON-RETURN ISOLATING AND STRAINERS



Combination Non-Return Isolating Valves

NI501	NI50 15mm (1/2") Duo Valve F x F
NIA501	NI50-A 15mm (1/2") Duo Valve Internal Flare Fitting
NIC501	NI50-C 15mm (1/2") Duo Valve Male Compression Fitting
NI701	NI75 20mm (3/4") Duo Valve
NI703	NI75-A 20 (3/4") Duo Valve Internal Flare Fitting
NRS501	NR50S 15mm (1/2") Non Return Valve with Strainer
NRIS501	NRI50S 15mm (1/2") Trio Valve

Nuts & Copper / Nylon Olives Included



Undersink Connection Valve

NRU501 15mm F x 15mm M x 20mm M Isolating Non-Return Valve For use in both hot & cold applications



Pressure Limiting Valve with Backflow Prevention

PVDC503 15mm (1/2") x 8mm (1/4") 350kPa PVDC504 15mm (1/2") x 8mm (1/4") 500kPa Max. Inlet Temp. 40°C (Cold Water Only)



Non-Return Valves

NR50HT	15mm (1/2") Non-Return Valve
NR75HT	20mm (3/4") Non-Return Valve
NR100HT	25mm (1") Non-Return Valve





Solar Non-Return Valves

SNR505 15mm (1/2") M x 20mm (3/4") M Max. Inlet Temp. 170°C



Y Strainers

7191	1/2" Y Strainer	Gas Ball Valves	
7192	3/4" Y Strainer	BVG06FF	6mm F/F *
7193	1" Y Strainer	BVG08FF	8mm F/F *
7194	11/4" Y Strainer	BVG10FF	10mm F/F *
7195	11/2" Y Strainer	BVG100FF	100mm F/F *
7196	2" Y Strainer	BVG15FF	15mm F/F *
		BVFG15-BHE	FLARED 15mm BSP **
		BVFG15-BHS	FLARED 15mm SAE **

BVG15MF-BH 15mm M/F **

BVG15MF

BV06FF

BV10FF

BV100F

BV15FF

BV15MF

BV20FF

BV15FF-BH

BV15MF-BH

BV20FF-BH

** Butterfly Handle

BV20FF-E

BV20MF

BVG20MF	20mm M/F *
BVG20MF-BH	20mm M/F **
BVG25FF	25mm F/F *
BVG32FF	32mm F/F *
BVG40FF	40mm F/F *
BVG50FF	50mm F/F *
BVG65FF	65mm F/F *
BVG80FF	80mm F/F *

20mm M/F **

25mm F/F #

32mm F/F

32mm F/F #

40mm F/F

40mm F/F

50mm F/F *

65mm F/F

80mm F/F

BV20MF-BH

BV25FF-E

BV32FF

BV32FF-

BV40FF

BV40FF-

BV50FF

BV50FF-

BV65FF

BV80FF

BVFG20-BHB FLARED 20MM BSP **

* Lever Handle ** Butterfly Handle

Gas & Water Ball Valves

6mmF/F

10mm F/F

100mm F/F

15mm F/F

15mm F/F **

15mm M/F **

20mm F/F **

20mm F/F

20mm M/F

Lever Extended

15mm M/F

20mm F/F

PRESSURE AND TEMPERATURE CONTROL





P&T Control Valves

HT501	(1/2") - 500kPa
● HT503	(1/2") - 700kPa
HT505	(1/2") - 850kPa
HT507	(1/2") - 1000kPa
HT511HTE501HTE502	(1/2") - 1400kPa
HTE501	(1/2") 1" EXT - 700kPa
HTE502	(1/2") 1" EXT - 850kPa
HTE504	(1/2") 1" EXT - 1000kPa
HTE502 HTE504 HTE506 HTE509 HTE513 HTT516	(1/2") 1" EXT - 1400kPa
HTE509	(1/2") 2" EXT - 850kPa
HTE511	(1/2") 2" EXT - 1000kPa
HTE513	(1/2") 2" EXT - 1400kPa
HTT515	(1/2") w/ IO - 700kPa
HTT516	(1/2") w/ IO - 850kPa
HTT517	(1/2") w/ IO - 1000kPa
HTT518	(1/2") w/ IO - 1400kPa
HT701	(3/4") - 500kPa
HT703	(3/4") - 700kPa
HT705	(3/4") - 850kPa
HT707	(3/4") - 1000kPa
HT711HTE701	(3/4") - 1400kPa
HTE701	(3/4") 1" EXT - 850kPa
HTE703	(3/4") 1" EXT - 1000kPa
HTE705	(3/4") 1" EXT - 1400kPa
HTE710	(3/4") 2" EXT - 850kPa
HTE709	(3/4") 2" EXT - 1000kPa

FLOW CONTROL HydroSave

Flow Regulating

FCD09.02 9 l/m 2 Pack

FCD06.50 6 l/m 50 Pack

FCD09.50 9 l/m 50 Pack

FCD12.50 12 l/m 50 Pack

12 l/m 2 Pack

Discs

FCD12.02

IO - Integrated Outlet



Inline Flow

IL04C.10

IL09C.01 9 l/m 1 Pack

IL02C.10 2 l/m 10 Pack

IL06C.10 6 l/m 10 Pack

Controllers - Chrome

12 l/m 1 Pack

4 l/m 10 Pack

9 l/m 10 Pack

12 l/m 10 Pack



Expansion Control Valves High Pressure

H502	(1/2") - 550kPa
H504	(1/2") - 700kPa
H506	(1/2") - 850kPa
H511	(1/2") - 1200kPa
H513	(1/2") - 1400kPa
H702	(3/4") - 550kPa
H703	(3/4") - 700kPa
H704	(3/4") - 850kPa
H707	(3/4") - 1200kPa
H708	(3/4") - 1400kPa

HPNR503 HPNR Unrestricted (1/2")



Expansion Control Valves Low Pressure 65-280kPa

LV50 15mm (1/2") LV75 20mm (3/4") Special Order Item: When ordering please state

Water Saving

Aerators - Chrome

AFL08C.01 Female 8 l/m 1 Pack

AFL05C.10 Female 5 l/m 10 Pack

AFL08C.10 Female 8 l/m 10 Pack

AFJ02C.10 Female 2 l/m 10 Pack
AMJ02C.10 Male 2 l/m 10 Pack

AML08C.01 Male 8 l/m 1 Pack

AML05C.10 Male 5 l/m 10 Pack AML08C.10 Male 8 l/m 10 Pack





Solar Control Combination **Valves**

PSH508	(1/2") - 350/600kPa *
PSH509	(1/2") - 500/850kPa *
PHNS507	(1/2") - 350/600kPa **
PHNS508	(1/2") - 500/850kPa **

* PSL / ECV

** PSL / ECV with Non-Return Valve and Strainer



Temperature & Vacuum Relief Valve 65-280kPa

LTV701 LTV575 20mm (3/4") Special Order Item: When ordering please state

LTV501 LTV55 15mm (1/2")

Water Saving Kit

CHK.01 Water Saving Kit

RMC's Water Saving Kit contains.

• 2 x 91/min Inline Water Flow Controllers

· 2 x 8l/min Aerator Inserts

All valves are lockable ** Right Angle

MISCELLANEOUS

BVWS20FF-L 20mm FF BVWSR20FF-L 20mm RA FF ** BVWS20MF-L 20mm MF BVWSR20MF-L 20mm RA MF **

BVWS25MF-L

water Service Ball valves

25mm MF





PV704 QuietWash (Shell Pack)



FloodGuard™

FG501 Chrome finish 20mm (3/4") (Shell Pack)



Auto Air Vent AVHTS-15 Auto Air Vent

15mm Insulated





AIJ02.10

Water Saving

Aerator Inserts

AIJO2.01 2 l/m 1 Pack

AIL08.01 8 l/m 1 Pack

AIL05.10 5 l/m 10 Pack

AIL08.10 8 l/m 10 Pack

5 l/m 1 Pack

2 l/m 10 Pack







