

AVG Product Range

The Range

AVG PRODUCT RANGE



avg.net.au

AVG[®]
Australian Valve Group
A **WATTS** Brand

Tempering Valve Assemblies (Standard - yellow cap)

TVA15C-*i* 15mm (1/2"), TVA20C-*i* 20mm (3/4")

Suitable for storage hot water systems

Specifications

Cold Water supply temperature:	5°C – 25°C
Hot Water supply temperature:	65°C – 85°C
Adjustable outlet temperature:	40°C – 50°C
Factory set temperature:	50°C normal (must be commissioned onsite by installer)
Accuracy of outlet temperature:	±3°C – tested to AS4032.2
Min. temperature differential (between hot supply and outlet temperature):	15°C
Supply pressure, static:	1400kPa max.
Supply pressure, dynamic:	500kPa max.
Pressure supply imbalance, dynamic (at time of commissioning):	2:1 max.
Max. permitted pressure variation in either supply in order to control outlet temperature to ±3°C (from supply pressure at commissioning):	±10% max.
Flow rate min.:	4 litres/min



Tempering Valve Assemblies (High Performance - orange cap)

TVA15CHP-*i* 15mm (1/2"), TVA20CHP-*i* 20mm (3/4")

Suitable for solar and continuous flow hot water systems

Specifications

Cold Water supply temperature:	5°C – 25°C
Hot Water supply temperature:	65°C – 99°C
Adjustable outlet temperature:	40°C – 50°C
Factory set temperature:	50°C normal (must be commissioned onsite by installer)
Accuracy of outlet temperature:	±3°C – tested to AS4032.2
Min. temperature differential (between hot supply and outlet temperature):	15°C
Supply pressure, static:	1400kPa max.
Supply pressure, dynamic:	500kPa max.
Pressure supply imbalance, dynamic (at time of commissioning):	2:1 max.
Max. permitted pressure variation in either supply in order to control outlet temperature to ±3°C (from supply pressure at commissioning):	±10% max.
Flow rate min.:	4 litres/min



Temperature Control Valves (Standard - red cap)

TCV15C-i 15mm (1/2"), TCV20C-i 20mm (3/4")

Suitable for applications requiring blended water

Specifications

Cold Water supply temperature:	5°C – 25°C
Hot Water supply temperature:	65°C – 99°C
Safe adjustable outlet temperature:	50°C – 65°C
Factory set temperature:	65°C normal (must be commissioned onsite by installer)
Accuracy of outlet temperature:	±3°C – tested to AS1357.2
Min. temperature differential (between hot supply and outlet temperature):	15°C
Supply pressure, static:	1600kPa max.
Supply pressure, dynamic:	500kPa max.
Pressure supply imbalance, dynamic (at time of commissioning):	2:1 max.
Max. permitted pressure variation in either supply in order to control outlet temperature to ±3°C (from supply pressure at commissioning):	±10% max.
Flow rate min. TCV15/20:	4 litres/min
Flow rate max. TCV15:	23 litres/min
Flow rate max. TCV20:	27 litres/min



Mixing Valves HI-FLO

TVA20-LOW, TVA25-LOW, TVA20-HF, TVA25-HF

Specifications

Hot and cold inter connectors	Nickel plated DR brass
Mixed outlet connection adaptor	Nickel plated DR brass
Hot and cold inlet connection assemblies	Nickel plated DR brass
Scale and corrosion resistant central waterway	Polymer
Scale/corrosion resistant hot seat	Polymer
Scale/corrosion resistant cold seat	Polymer
Scale/corrosion resistant thermostatic piston seal	Polymer
Scale/corrosion resistant check valves	Polymer
Corrosion resistant filters	Stainless Steel
Inlet/Outlet size options	3/4" and optional 1"
Temperature adjustment range	40°C - 50°C (Disinfection setting) Legionella control
Factory pre-set temperatures	40°C or 50°C or 55°C
Temperature control	+/- 2°C
Hot to Mix Temperature Differential for effective cold water isolation	Minimum 15°C
Maximum pressure	1000 kPa
Dynamic pressure range	20 kPa - 500 kPa
Minimum flow rate	4 litres/min




MODEL NO.	DESCRIPTION
TVA20-LOW	20mm Tempering Valve Low Pressure
TVA25-LOW	25mm Tempering Valve Low Pressure
TVA20-HF	20mm Tempering Valve High Flow
TVA25-HF	25mm Tempering Valve High Flow

Pressure Reduction Valves PRV15F, PRV20F, PRV25F

Suitable for installation below ground in a suitable approved box

Specifications

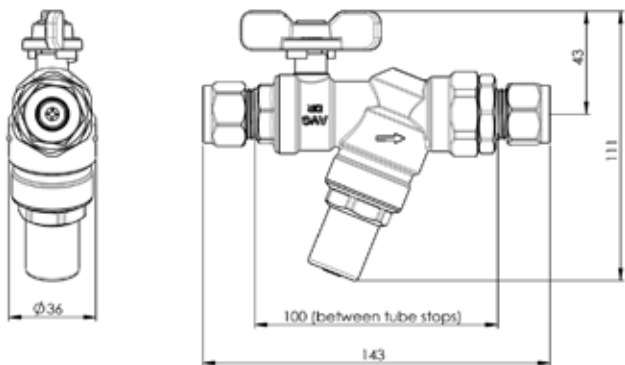
Body:	DR Brass	Control Spindle:	DR Brass
Components:	DR Brass	Seals:	EDPM 70
Strainer:	Stainless Steel	Seat:	Stainless Steel 316
Spring:	Stainless Steel		
Pressure setting range:	250-650 kPa		
Factory Setting:	500 kPa		
Max. Inlet Pressure:	1600 kPa		
Max. Working Temp.:	80°C		
Medium:	Water		
Complies with:	AS 1357.2		
Flow Rate as per Appendix K @ 700 kPa dynamic			
PRV15	set pressure 500 kPa	Flow Rate 60 L/Min	
	set pressure 250 kPa	Flow Rate 22 L/Min	
PRV20	set pressure 500 kPa	Flow Rate 130 L/Min	
	set pressure 250 kPa	Flow Rate 30 L/Min	
PRV25	set pressure 500 kPa	Flow Rate 155 L/Min	
	set pressure 250 kPa	Flow Rate 25.4 L/Min	



Non Return Isolation Pressure Reduction Valve Combination NRI-PRV-15C, NRI-PRV-20C

Specifications

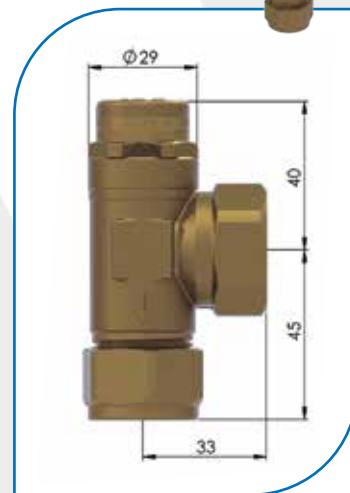
Body:	DR Brass	Control Spindle:	DR Brass
Components:	DR Brass	Seals:	EDPM 70
Strainer:	Stainless Steel	Seat:	Stainless Steel 316
Spring:	Stainless Steel		
Pressure setting range:	250-650 kPa		
Factory Setting:	500 kPa		
Max. Inlet Pressure:	1600 kPa		
Max. Working Temp.:	80°C		
Medium:	Water		
Complies with:	AS 1357.2		
Flow Rate as per Appendix K @ 700 kPa dynamic			
NRI-PRV-15C	set pressure 500 kPa	Flow Rate 55 L/Min	
	set pressure 250 kPa	Flow Rate 22 L/Min	
NRI-PRV-20C	set pressure 500 kPa	Flow Rate 120 L/Min	
	set pressure 250 kPa	Flow Rate 30 L/Min	



Pressure Reductions Valve Boundary PRVB20-500C, PRVB20-500FL

Specifications

Flow rating:	170 l/min, as per AS1357.2
Set pressure:	500kPa, at 1600kPa Inlet Pressure
Max. operating temp.:	80°C
Connections:	20mm Female BSP to 20mm Compression
Watermark:	WMKA2639



Boundary Pressure Reduction Valve PRVB20-BV20

Specifications

Flow rating:	170 l/min, as per AS1357.2
Set pressure:	500kPa, at 1600kPa Inlet Pressure
Max operating temp.:	80°C
Connections:	20mm Compression to 20mm Female
Watermark:	WMKA2639



Quiet Valve Noise Reduction QPL-20

Suitable for washing machines & dishwashers

Specifications

Maximum inlet pressure:	1400 kPa
Maximum temperature:	65°C
Outlet pressure:	400kPa at 700 kPa inlet
Flow rate:	20 litres/min at 700 kPa inlet
Top connection:	20mm (3/4") BSP female
Outlet connection:	20mm (3/4") BSP male



TR-SET

Selectable Pressure Limiting Valve PLV15F-TRISSET, PLV15C-TRISSET, PLV20F-TRISSET, PLV20C-TRISSET

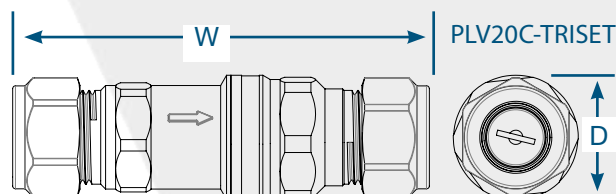
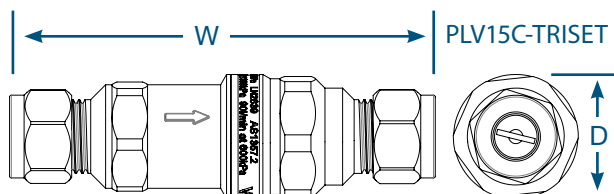
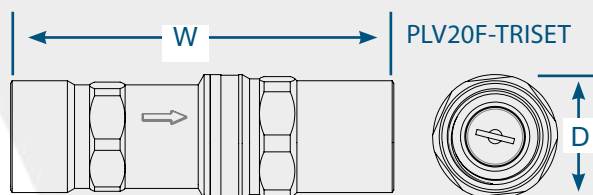
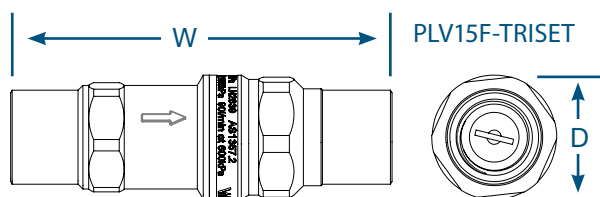
One valve with three pressure settings

Specifications

Valve body	DZR brass
Internal cartridge	DZR brass
Valve seat	316 Stainless steel
Pressure spring	Stainless steel
" O " rings	EPDM
Max. Inlet Pressure	1800 kPa
Max. Operating Temp	80°C
Selectable Pressure Settings	350 kPa, 500kPa and 600kPa. Supplied factory pre - set at 500kPa
Approvals	AS 1357.2 WATERMARK lic no. 2639 Must be installed by a licensed Plumber as per the manufacturers instructions



PRODUCT RANGE		
PLV15F-TRISSET	15mm F x F	adjustable 350, 500, 600 kPa
PLV15C-TRISSET	15mm C x C	adjustable 350, 500, 600 kPa
PLV20F-TRISSET	20mm F x F	adjustable 350, 500, 600 kPa
PLV20C-TRISSET	20mm C x C	adjustable 350, 500, 600 kPa



MODEL	W	D
PLV15F-TRISSET	107mm	35mm
PLV15C-TRISSET	122mm	35mm
PLV20F-TRISSET	121mm	35mm
PLV20C-TRISSET	122mm	35mm

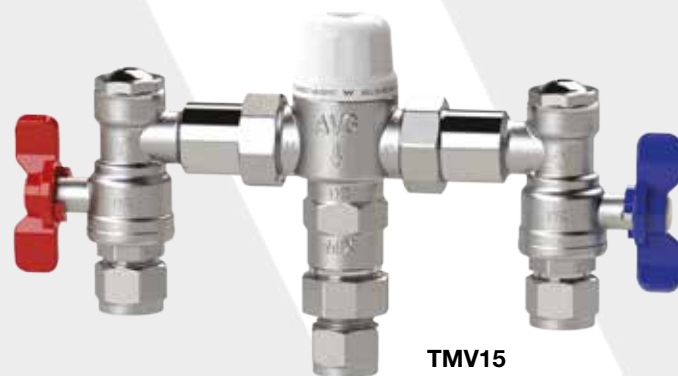


Thermostatic Mixing Valves TMV15, TMV20

Suitable for storage hot water systems

Specifications

MIXED OUTLET TEMPERATURE	
Temperature Adjustment Range:	35° to 45° Celsius
INLET TEMPERATURES	
Cold Supply :	5°C - 25°C
Hot Supply:	60°C - 90°C
Hot to Mix Temperature Differential for Stable operation:	Min. 10°C
Cold to Mix Temperature Differential for stable operation:	Min. 5°C
FLOW RATES	
To ensure stable outlet conditions:	Min. 4/minute
DYNAMIC INLET PRESSURES	
Hot and Cold Inlet Pressures:	Min. 20 kPa Max. 500 kPa
STATIC INLET PRESSURE	
Hot and Cold Inlet Pressures:	Maxi.1000kPa
INLET PRESSURE RATIO	
Maximum inlet pressure ratio	10:1 (either supply)
For stable operatio(n	Hot:Cold or Cold:Hot)
NOTE: For optimum operation it is recommended that the hot and cold water supply pressures be balanced to within +/- 10%.	
NOTE: Notwithstanding the above, compliance with AS3500 must be maintained.	



TMV15



TMV20

Pressure Limiting & Isolation Valves PLV, MST-1, MST-2

Ideal for washing machines & dishwashers

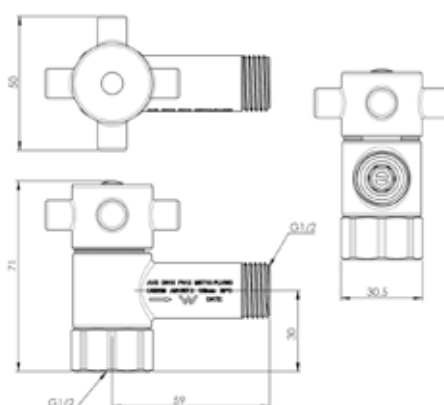
Specifications

Body & Handle:	Polished Chrome
Ball:	DZR Brass
Inlet:	15mm female
Outlet:	MST-1 All positional swivel 15mm male
Outlet:	MST-2 All positional swivel 20mm male
O rings:	EPDM
Seals:	PTFE/EPDM
Pressure setting:	350kPa
Flow rate:	10 liters/min
Max temp.:	80°C
Approvals:	AS1357.2 Watermark

MST-1
Suitable for any 15mm point of use isolation applications



MST-2
Ideal for washing machines and dishwashing machines to help reduce water hammer and most pipe noises



Thermostatic Mixing Valve - Plumbed in Box

TMV15-PIB, TMV20-PIB

Thermostatic Mixing Valve - Plumbed in Boxes



**TMV15-PIB OR TMV20-PIB
STANDARD CONFIGURATION**

CONFIG. 2



CONFIG. 3



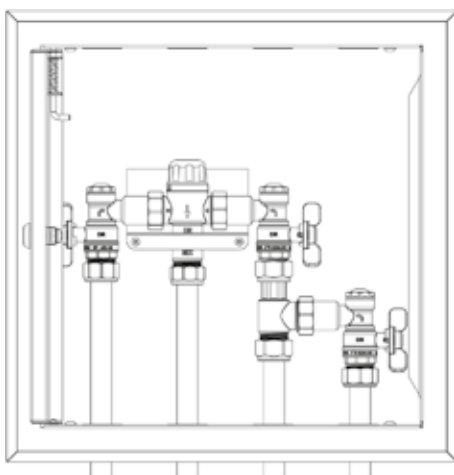
CONFIG.4



CONFIG. 5

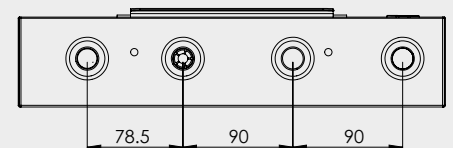


CONFIG. 6



**TMV15BP-PIB OR TMV20BP-PIB
WITH BYPASS CONFIGURATION**

TMV20-PIB



Thermostatic Mixing Valve - Plumbed in Box

TVA15C-PIB, TVA15CHP-PIB, TVA20C-PIB, TVA20CHP-PIB

Tempering Valve Assemblies - Plumbed in Boxes

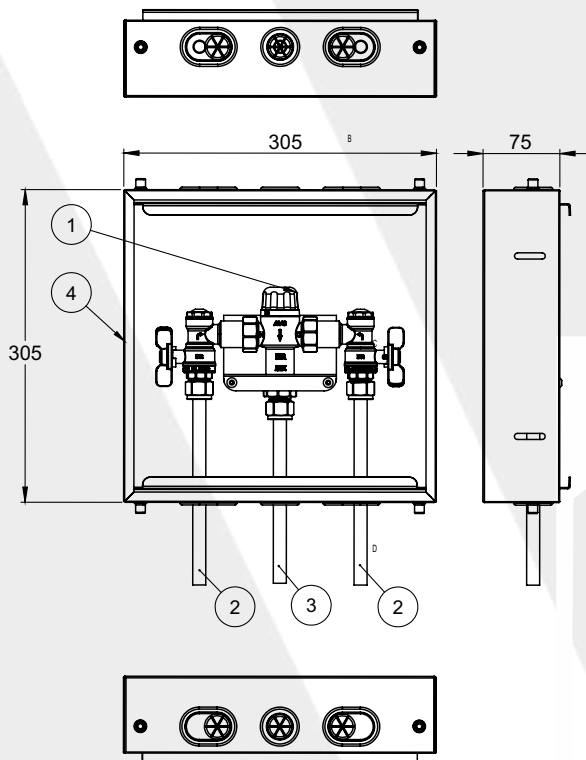


**TVA15-PIB OR TVA20C-PIB
STANDARD AND OPTIONAL
CONFIGURATION**

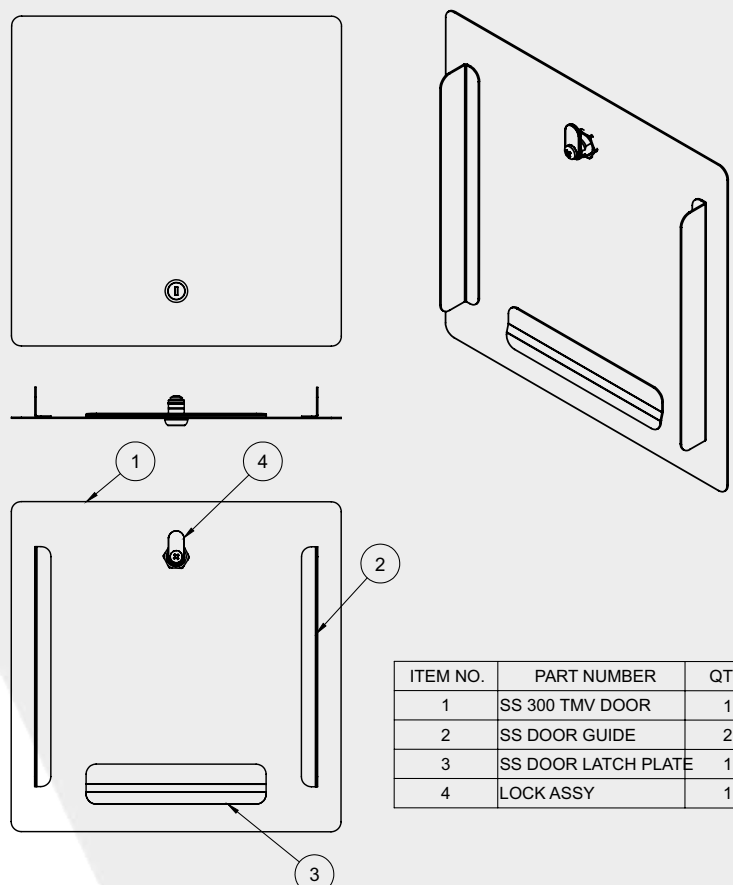


**TVA15CHP-PIB OR TVA20CHP-PIB
STANDARD CONFIGURATION**

Thermostatic Valve Boxes



ITEM NO.	PART NUMBER	QTY.
1	TMV15-PIB	1
2	15x200 COPPER PIPE	2
3	15x180 COPPER PIPE	1
4	SSTMV 305 BOX	1



ITEM NO.	PART NUMBER	QTY.
1	SS 300 TMV DOOR	1
2	SS DOOR GUIDE	2
3	SS DOOR LATCH PLATE	1
4	LOCK ASSY	1

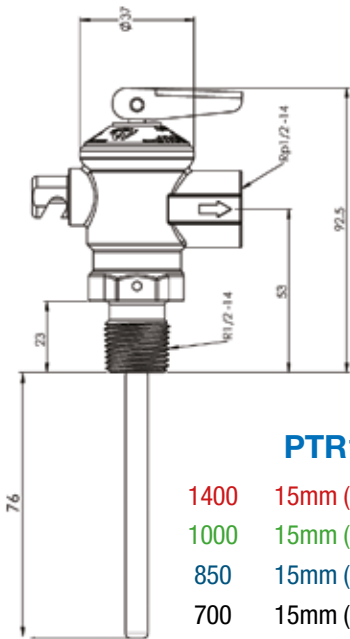
Pressure & Temperature Relief Valve PTR15, PTR20, PTR25

Specifications

MODEL	DN SIZE	COLOUR CODE	PRESSURE RATING	INLET	OUTLET	EXPANSION RATINGS
PTR15/1400	15	RED	1400kPa	1/2" male	1/2" female	10 KW
PTR15/1000	15	GREEN	1000kPa	1/2" male	1/2" female	10 KW
PTR15/850	15	BLUE	850kPa	1/2" male	1/2" female	10 KW
PTR15/700	15	BLACK	700kPa	1/2" male	1/2" female	10 KW
PTR20/1000	20	BLACK	1000kPa	3/4" male	3/4" female	46 KW
PTR20/850	20	BLUE	850kPa	3/4" male	3/4" female	46 KW
PTR20/700	20	BLACK	700kPa	3/4" male	3/4" female	46 KW



PTR15 DIMENSIONS

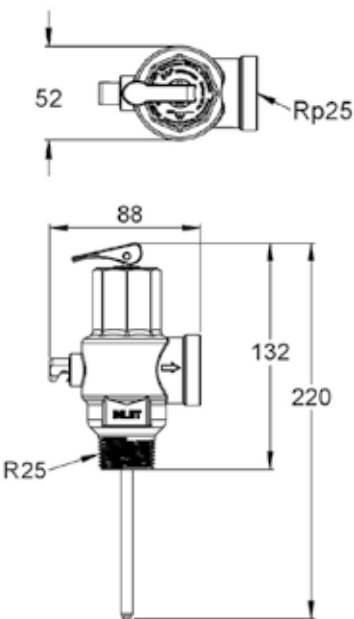


PTR15

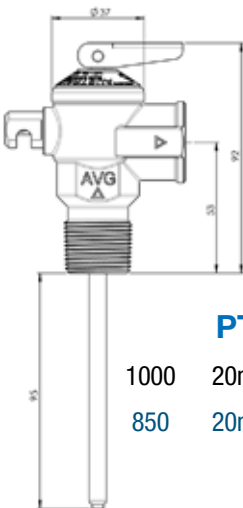
- 1400 15mm (1/2") BSP
- 1000 15mm (1/2") BSP
- 850 15mm (1/2") BSP
- 700 15mm (1/2") BSP



PTR25 DIMENSIONS



PTR20 DIMENSIONS



PTR20

- 1000 20mm (3/4") BSP
- 850 20mm (3/4") BSP

Pressure & Temperature Relief Valve “Extended” PTRE15

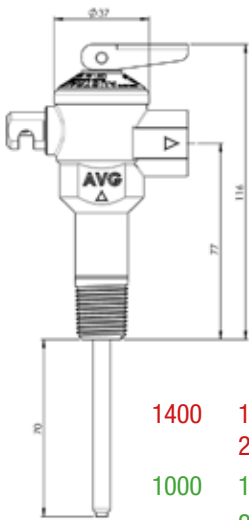
Rating Plate Colours

The valve rating plates are colour coded to make selecting the correct valve easy. Simply match the ECV rating plate colour to a PTR with the same colour.

COLOUR RATING PLATE	ECV VALVES	PTR VALVES
Black	ECV 15/600	PTR 15/700
Black	ECV 20/600	PTR 20/700
Blue	ECV 15/700	PTR 15/850
Blue	ECV 20/700	PTRE 20/850
Green	ECV 15/850	PTR 15/1000
Green		PTRE 15/1000
Green	ECV 20/850	PTR 20/1000
Red	ECV 15/1200	PTR 15/1400
Red		PTRE 15/1400
Red	ECV 15/1200	PTR 15/1400-HTT
Red	ECV 20/1200	
Orange	ECV 15/1400	



PTRE15 DIMENSIONS

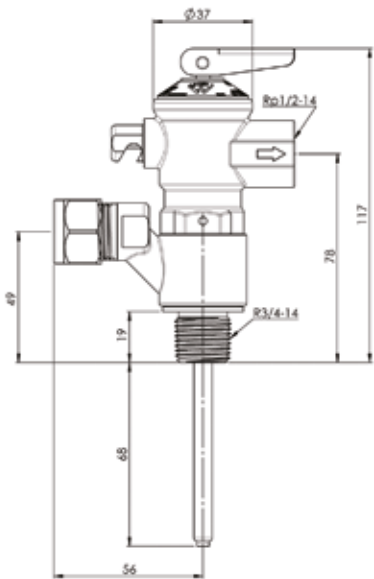


PTRE15

- 1400 15mm (1/2") BSP
25mm Extended Body
- 1000 15mm (1/2") BSP
25mm Extended Body

Pressure & Temperature Relief Valve complete with 360° swivel Hot Water Outlet PTR15/1400HTT

PTR15/1400HTT DIMENSIONS

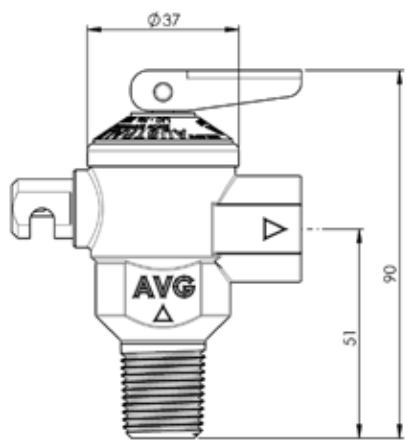


360° Swivel

Expansion Control Valves

ECV15, ECV25

ECV15 DIMENSIONS



ECV15

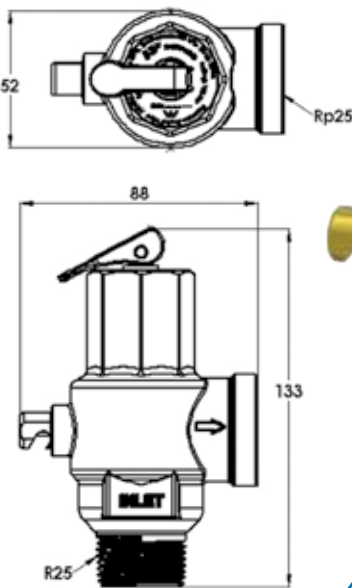
- 1400 15mm (1/2") BSP
- 1200 15mm (1/2") BSP
- 850 15mm (1/2") BSP
- 700 15mm (1/2") BSP
- 600 15mm (1/2") BSP



Specifications

Valve body	Bronze
Pressure spring	Stainless Steel
Valve seal	Silicon Rubber
"O" rings	Silicon Rubber
Valve piston	DR Brass
Valve pin	DR Brass
Auxiliary relief body	Brass
Auxiliary relief seal	Silicon Rubber
Valve easing lever	Brass
Inlet	R25mm
Drain outlet	Rp25mm
Set pressure	300 kPa, 700 kPa, 850 kPa
Kilowatt rating	132 Kw
Maximum temperature	99 °C

ECV25 DIMENSIONS

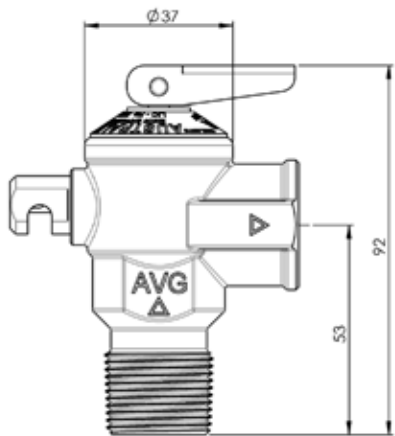


MODEL	DN SIZE	COLOUR CODE	PRESSURE RATING	INLET	OUTLET	EXPANSION RATINGS
ECV15/1400	15	ORANGE	1400kPa	1/2" male	1/2" female	20 KW
ECV15/1200	15	RED	1200kPa	1/2" male	1/2" female	20 KW
ECV15/850	15	GREEN	850kPa	1/2" male	1/2" female	20 KW
ECV15/700	15	BLUE	700kPa	1/2" male	1/2" female	20 KW
ECV20/1200	20	RED	1200kPa	3/4" male	3/4" female	46 KW
ECV20/800	20	GREEN	850kPa	3/4" male	3/4" female	46 KW
ECV20/700	20	BLACK	700kPa	3/4" male	3/4" female	46 KW

Expansion Control Valves

ECV20

ECV20 DIMENSIONS



ECV20

- 1200 20mm (3/4") BSP
- 850 20mm (3/4") BSP
- 700 20mm (3/4") BSP



Rating Plate Colours

The valve rating plates are colour coded to make selecting the correct valve easy. Simply match the ECV rating plate colour to a PTR with the same colour.

COLOUR RATING PLATE	ECV VALVES	PTR VALVES
Black	ECV 15/600	PTR 15/700
Black	ECV 20/600	PTR 20/700
Blue	ECV 15/700	PTR 15/850
Blue	ECV 20/700	PTRE 20/850
Green	ECV 15/850	PTR 15/1000
Green		PTRE 15/1000
Green	ECV 20/850	PTR 20/1000
Red	ECV 15/1200	PTR 15/1400
Red		PTRE 15/1400
Red	ECV 15/1200	PTR 15/1400-HTT
Red	ECV 20/1200	
Orange	ECV 15/1400	



Set Pressures for Water Heater Valves

PTR Valve Setting kPa	WITHOUT ECV		WITH ECV		
	PLV required if mains pressure exceeds:	PLV Setting kPa	ECV Setting kPa	PLV required if mains pressure exceeds:	PLV Setting kPa
700	680	500	700	550	350
850	680	500	700	550	350
1000	800	600	850	680	500
1400	1120	600	1200	960	600

Raised Quick Installation Kits QIK15R, QIK15RHP, QIK15RCV, QIK15RCVHP, QIK20R, QIK20RCV

Features

- Every thing you need in the one box - No missing parts on the job.
- Quick and Simple
- There's a Quickie kit to suit - Gas storage, Electric storage, Solar hot water systems, and Heat pumps.
- Reduces the need for thread seal tape
- Reduces the time on installations.
- Simple and & Easy to Assemble - All installations are done the same.
- Flexible - Quickie kits can be modified to meet different installation requirements in various states and councils, i.e. the expansion control valve or pressure reduction valve can easily be added to the Kit
- Easily accessible filters
- Insulation - Insulation provided is UV stabilised and water resistant.
- Kits available in 15mm and 20mm.

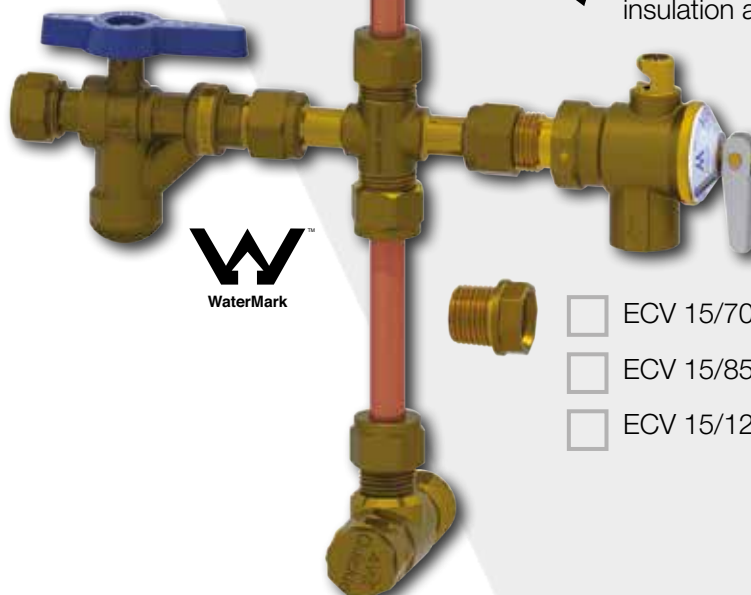
QIK15R Model Storage 15mm (1/2") & 20mm (3/4")



**PTR DRAIN LINE
UNION INCLUDED**

What's in this 15mm kit:

- ☒ 3 Way Hot Water Outlet
- ☒ 3 Way Cold Water Inlet
- ☒ 4 Way Cross (Compression & Loose Nut)
- ☒ 15mm Brass Plug (BSP) (To cap off 4 way tee if no ECV used)
- ☒ NRIBVS-15C (Non Return Isolating Ball Valve with filter)
- ☒ TVA15C-i
- ☒ PTR Drain line union
- ☒ All other relevant insulation as per AS:3500



- ☐ ECV 15/700
- ☐ ECV 15/850
- ☐ ECV 15/1200



QIK15R



QIK15RHP

Range of 4 quickie kits suitable for storage hot water systems



QIK15RCV



QIK15RCVHP



Everything you need to plumb a storage hot water system **quickly**

Quick Installation Kits QIK15, QIK20 QIK15/850, QIK20/850, QIK15/1200, QIK20/1200, QIK15 SOLAR, QIK20 SOLAR

Quick Installation Kits

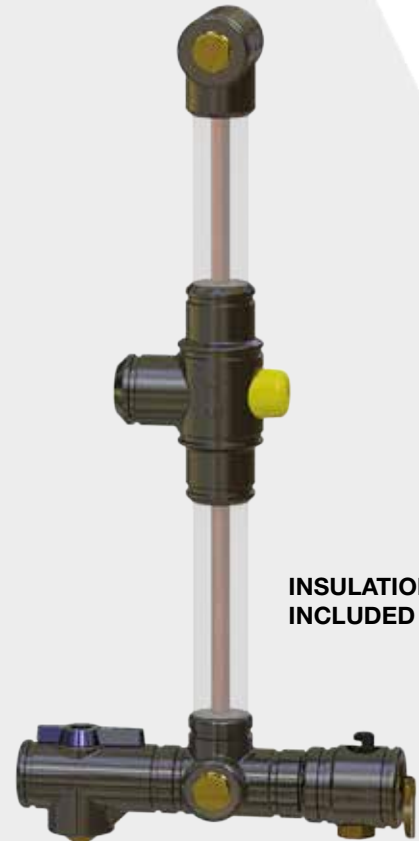
The R&D team at AVG have developed the Quickie kit for Storage Hot Water Systems with the best interests of the Plumber in mind.

The AVG Storage Quickie Kit is the most comprehensive and versatile installation kit for storage hot water systems, on the Australian/New Zealand market. Within the Quickie Kit range there are kits to suit , Electric storage, Gas storage, Solar & Heat Pump systems.

The outstanding feature of all these kits is that they come complete with all insulation to cover not only the AVG Heating Control Valves, but also the brass fittings necessary to complete the installation. Saving the plumber substantial time and therefore money.

Features

- Every thing you need in the one box - No missing parts on the job.
- Quick and Simple
- There's a Quickie kit to suit - Gas storage, Electric storage, Solar hot water systems, and Heat pumps.
- Reduces the need for thread seal tape
- Reduces the time on installations.
- Simple and & Easy to Assemble - All installations are done the same.
- Flexible - Quickie kits can be modified to meet different installation requirements in various states and councils, i.e. the expansion control valve or pressure reduction valve can easily be added to the Kit
- Easily accessible filters
- Insulation - Insulation provided is UV stabilised and water resistant.
- Kits available in 15mm and 20mm.



**Base Model - ECV
Storage 15mm (1/2") &
20mm (3/4")**



PTR not included



**PTR drain line
union included**

What's in this 15mm kit:

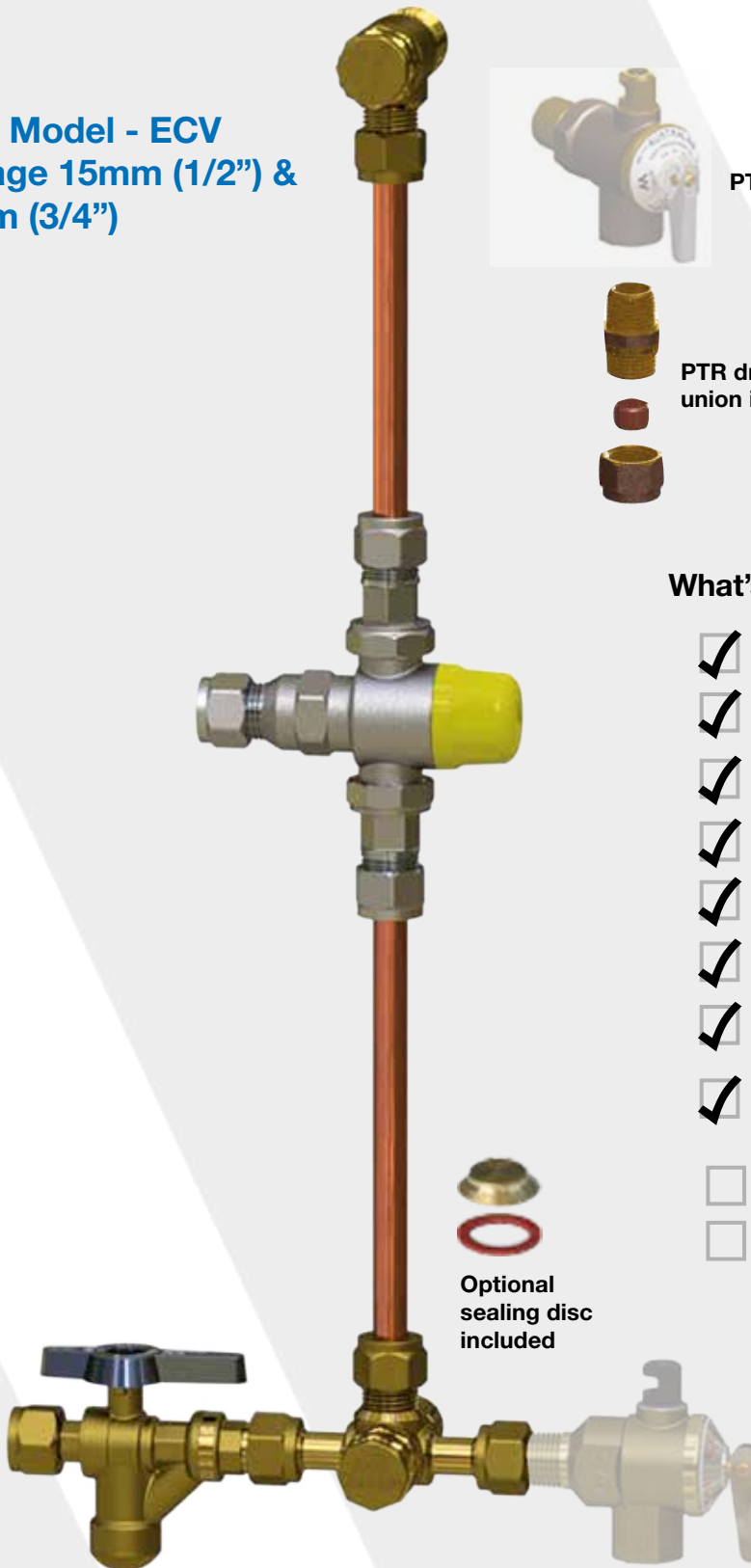
- ☒ TVA15C Tempering Valve
- ☒ NRIBVS-15C
- ☒ 4 Way Tee
- ☒ Elbow c/w filter
- ☒ PTR Drain line union
- ☒ 3 x fibre washers
- ☒ Optional Sealing Disc
- ☒ All other relevant insulation as per AS:3500

☐ ECV 15/850

☐ ECV 15/1200



**Optional
sealing disc
included**



**ECV included in
QIK15/850 and
QIK15/1200 only**

Quickie-U

Quick Continuous Flow Kit, Quickie-U

Universal Kit with Interchangeable adaptors

Quickie-U

The Quick Continuous Flow Kit includes everything required to install a variety of different continuous flow hot water heaters, two loose nut ball valves, one water and one gas and a hot water outlet fitting.

Also included in the kit is a range of optional inlet and outlet connection adaptors for the water and gas ball valves and the outlet fitting, this allows the installing plumber to make their selection and fit the appropriate adaptors as required on site.

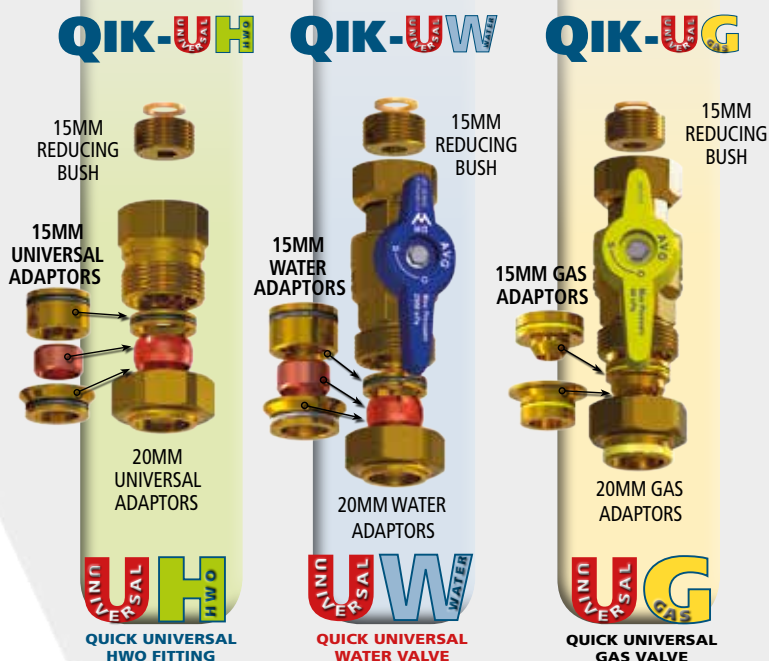
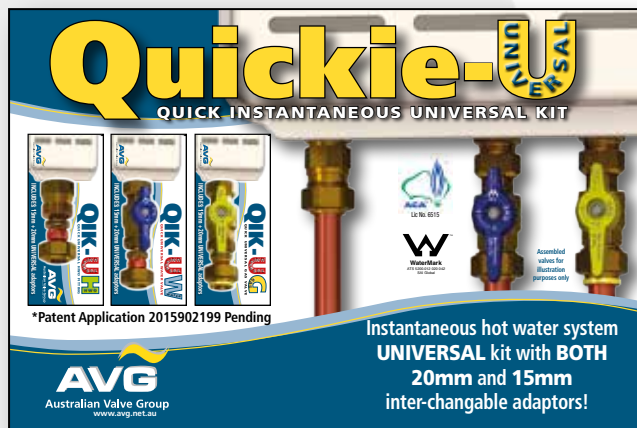
Features

- Everything you need to install a continuous flow hot water heater in ONE box
- One kit fits ALL
- Water isolation ball valve with optional 15mm and 20mm compression inlet adaptors with optional 15mm reducing outlet adaptor complete with seal
- Gas isolation ball valve with optional 15mm and 20mm flared inlet adaptors with optional 15mm reducing outlet adaptor complete with seal
- Hot water outlet fitting with optional 15mm and 20mm outlet adaptors with optional 15mm reducing inlet adaptor with seal
- Special tool to fit reducing adaptors.

Specifications

GAS AND WATER QUARTER TURN ISOLATION BALL VALVES

Pressure Rating:	90 kPa
Temp. Rating:	0-60°C
Body:	DR Brass body & internal components
"O"Rings & Seals:	HNBR
Ball Seals:	PTFE
Handles:	Powder coated
Approvals:	

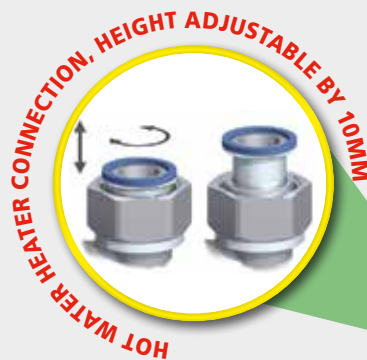


Quick Continuous Flow Kits, Quickie 505, Quickie 506

QIK505 15mm (1/2") & 20mm (3/4")
QIK506 20mm (3/4") & 20mm (3/4")

FEATURES

- High performance tempering valve suitable for solar & continuous hot water systems.
- Swivels from 83mm to 223mm.
- Hot water connection height adjustable by 10mm.
- Gas valve included.
- Factory set at 50°C (must be commissioned onsite by installer).
- Water Mark Certification – License No. 20137.



**UNIVERSAL SWIVEL
FITTINGS
SUIT ALL
INSTANTANEOUS
HOT WATER
SYSTEM
CONNECTIONS**



**GAS VALVE
INCLUDED**

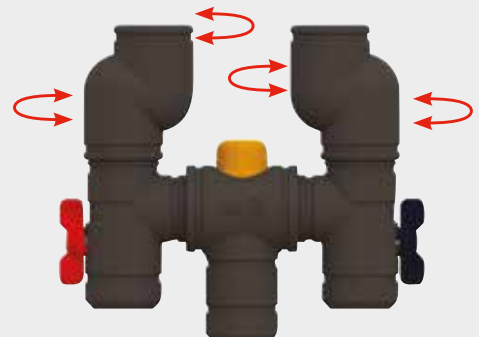
QIK 505 & QIK 506 SPECIFICATIONS

Cold water supply temperature:	5°C - 25°C
Hot Water supply temperature:	65°C - 99°C
Adjustable outlet temperature range:	40°C - 50°C
Factory set temperature:	50°C nominal (Must be commissioned onsite by installer)
Accuracy of outlet temperature:	±3°C - tested to AS4032.2
Minimum temperature differential (between hot supply and outlet temperature):	10°C
Supply pressure, static :	1600kPa maximum
Supply pressure, dynamic :	500kPa maximum
Supply pressure imbalance, dynamic :	2:1 maximum (at time of commissioning)
Maximum permitted pressure variation in either supply in order to control outlet temperature to ±3°C:	10 % maximum (from supply pressure at commissioning)
Flow rate minimum:	4 litres/min

(20mm & 15 mm TVA's)



SWIVELS FROM 83MM TO 223MM



Non Return & Isolating Valves NRIBV NRIBV-15C, NRIBV-20C, NRIBVS-15C, NRIBVS-20C, NRIBV-15F, NRIBV-20F, NRIBVS-15F, NRIBVS-20F, NRIBV-15-INV

NRIBV

The NRIBV range of non return isolation valves (NRI) combine the non-return and isolating functions in one simple compact valve. The NRIBV range is available in 15mm and 20mm and with optional female, flare and nut and copper olive compression ends.

The NRIBVS range of non return isolating valves incorporate a line strainer which is designed to protect any down stream valves and or equipment. The removable strainer prevents grit and debris from entering the line.

MODEL NO.	DN SIZE	INLET/OUTLET	LENGTH
NRIBV-15C	15	15 (1/2") Compression	79mm
NRIBV-20C	20	20 (3/4") Compression	107mm
NRIBV-15F	15	15 (1/2") Female	64mm
NRIBV-20F	20	20 (3/4") Female	89.5mm
NRIBV-15-INV	15	15 (1/2") Flare	86mm
NRIBVS-15C	15	15 (1/2") Compression	85mm
NRIBVS-20C	20	20 (3/4") Compression	135mm
NRIBVS-15F	15	15 (1/2") Female	85mm
NRIBVS-20F	20	20 (3/4") Female	95mm



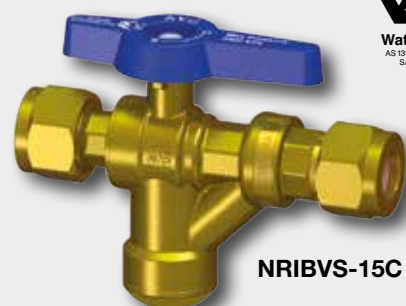
NRIBV-15F



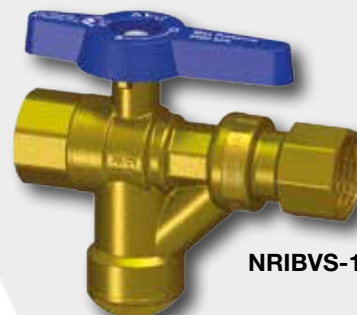
NRIBV-15C



NRIBV-15-INV



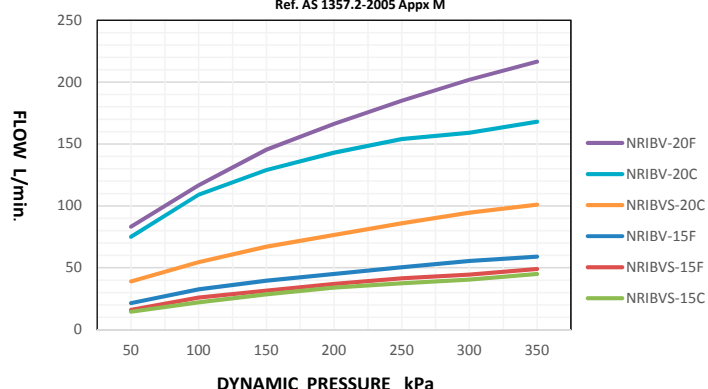
NRIBVS-15C



NRIBVS-15F



FLOW RATE CHART
NRIBV15 and 20
Ref. AS 1557.2-2005 Appx M



Plumbers Test Kit PTK-1

Specifications

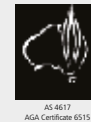
- Fully assembled brass body
- 20mm loose nut with rubber seal for quick connection
- 50mm stainless steel 1600kPa pressure test gauge with spike pressure indicator
- Digital thermometer
- 20mm (3/4") Hose connection fitting
- 20mm (3/4") Hose connection tool



Packed in sturdy
carry case

Ball Valves

BV15FL, BV15YFL, BV15C, BV20FL, BV20YFL, BV20C



BV15FL & BV20FL Features

- DR Brass
- 15mm and 20mm FL x FL
- Full bore
- Maximum operating temp. to 90°C
- AGA 6515
- Maximum pressure 2500kPa



BV15FL
15mm FL x FL



BV20FL
20mm FL x FL



BV15YFL & BV20YFL Features

- 15mm and 20mm FL x FL
- Full bore
- Maximum operating temp. to 90°C
- AGA 6515
- Maximum pressure 2500kPa

BV15YFL
15mm FL x FL



BV20YFL
20mm FL x FL



BV15C & BV20C Features

- DR Brass
- Compression nut and copper olive
- 15mm and 20mm C x C
- Full bore
- Maximum operating temp. to 90°C
- Watermark ATS 5200.012 Lic No 020042
- Maximum pressure 2500kPa



BV15C
15mm C x C



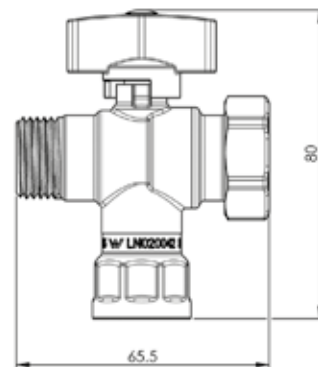
BV20C
20mm C x C



Ball Valve Tee, BVT-15

Specifications

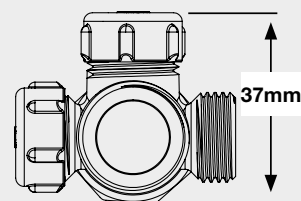
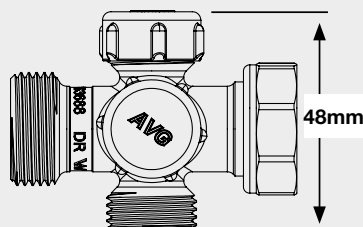
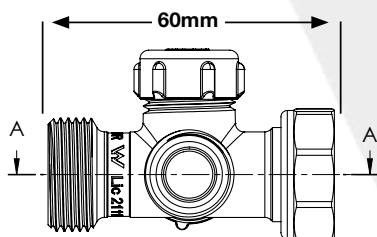
- 3 Way Ball Valve c/w 20mm cap
- ¼ turn isolation
- Compact design
- Connect dishwasher and tap with ease with one fitting
- Integrated non return check valve
- Chrome cover plate included
- Optional manifold to suit



Ultra Manifold, MAN-15

Specifications

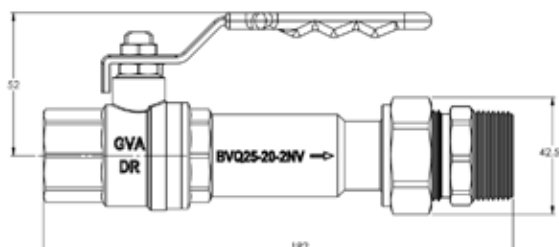
- Watermark approved
- 3 x ½" 15mm connections
- 1 x ¾" 20mm connection
- 2 x ½" 15mm caps
- Space saving design will free up space under sink
- Time saving solution to organising under sink connections



Dual Check Isolation Valve BVQ25-20-2NV Retic Valve

Specifications

- 20mm (3/4") PRESS fit Water Fitting
- Double check & isolation combination
- Stainless steel handle
- Body DR Brass
- Isolating Disc & 1" hex nipple
- Complies with AS2845

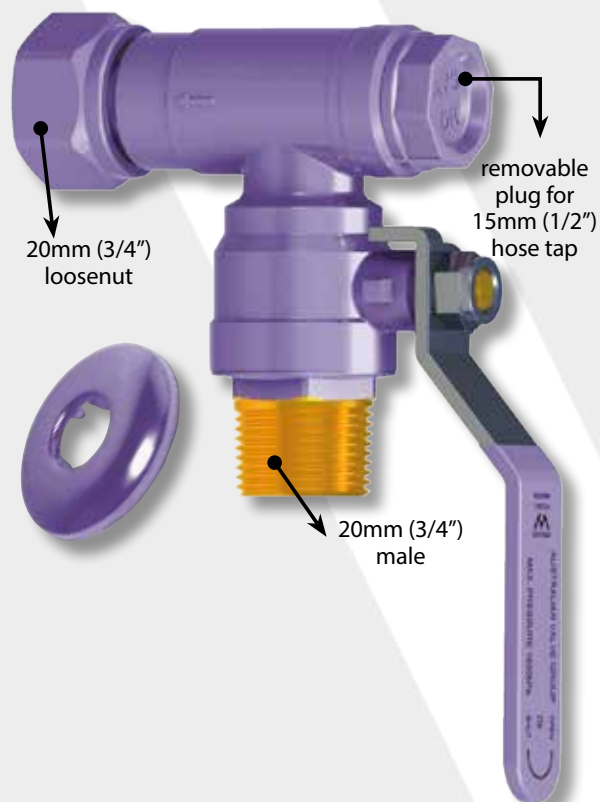


Recycled Water Ball Valve RWBV20 20mm (3/4")

Suitable for recycled water use

Specifications

- Wall Plate included
- One Piece - Full Flow
- Removable Plug



Meter Connection Kits MCK20 MCK20FL, MCK-PRV20FL, MCK20N

INCLUDED IN MCK20FL

QTY.	CODE	DESCRIPTION
1	BVE20-20FL	20mm FLxF right angle Ball Valve
1	2NV20-20F	20mm FxF Dual Check Valve
1	BFE20Mi20FL	20mm MixFL Compression Elbow



INCLUDED IN MCK-PRV20FL

QTY.	CODE	DESCRIPTION
1	BVE20-20FL	20mm FLxF right angle Ball Valve
1	2NV20-20FM	20mm FxM Dual Check Valve
1	PRVB20-500FL	20mm Boundary Pressure Reducing Valve set @ 500kPa



INCLUDED IN MCK20N

QTY.	CODE	DESCRIPTION
1	BVE20-20FL	20mm FLxF right angle Ball Valve
1	2NV20-20F	20mm FxF Dual Check Valve
1	BFU20Mi20FL	20mm MixFL Brass union

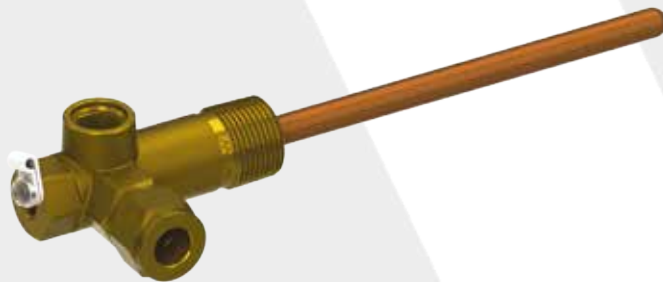


Air Vent TEE, AVT

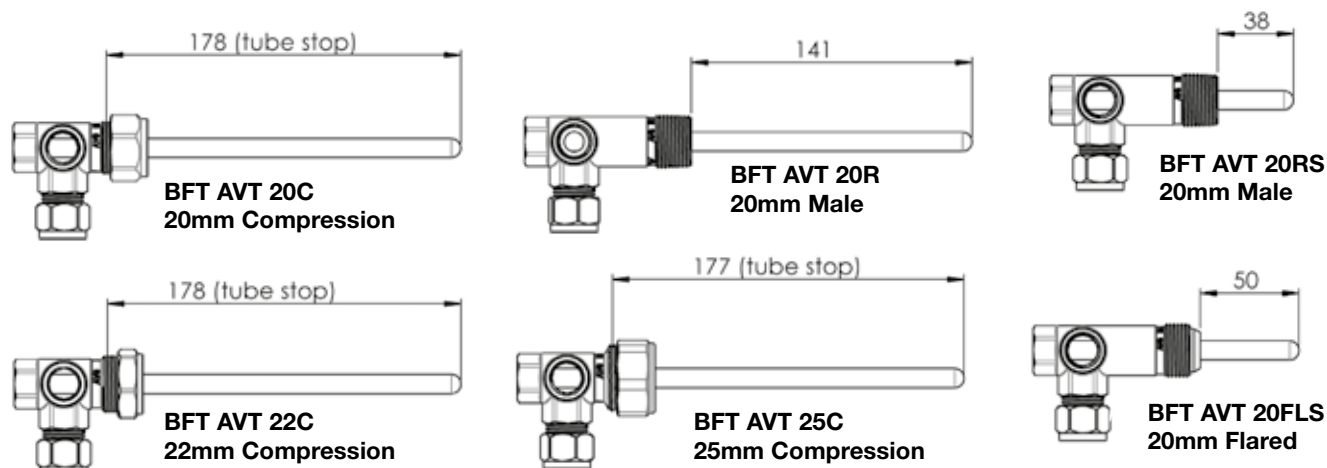
Suitable for Solar hot water systems

Specifications

BODY :	DR BRASS
TEMP. SENSING POCKET:	3/8" (10mm) COPPER TUBE
INSULATION GLOVE:	10mm THICK POLYURETHANE
PUMPED CONNECTION :	1/2" COMPRESSION
AIR VENT CONNECTION:	3/8" FEMALE



AVT DIMENSIONS



Frost Protection Valve, FPV-15

Suitable for Solar hot water systems

Specifications

MATERIALS

VALVE SEAT	316 Stainless Steel
DRAIN WAY BODY	Chrome plated brass
CALIBRATION SCREW	Brass
SPRINGS	Stainless Steel
VALVE SEAL	Silicone
SEAL HOUSING	Brass
INLET SEAL	Silicone
WAX ELEMENT	Copper/Stainless steel
INLET CONNECTION	15mm Loose nut
MAXIMUM INLET PRESSURE	1000kPa

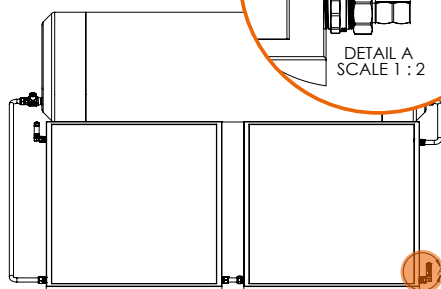
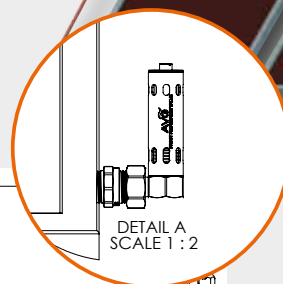
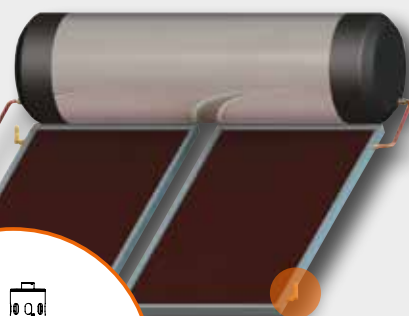
OPERATION

OPENING TEMPERATURE	3°C - 5°C
RE SEATING TEMPERATURE	7°C - 10°C

MAINTENANCE

Solar collectors should be flushed regularly to ensure correct operation of the Frost Protection Valve.

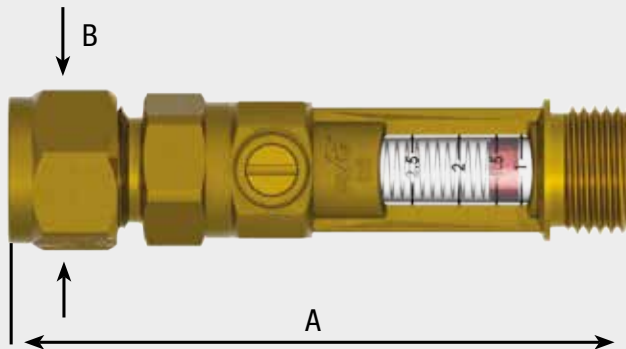
This is to prevent damage to the Frost Valve seat and seal caused by sludge, debris and foreign matter entering the valve.



Flow Meter FM15C

FM15C – 1.4 FM15C – 2.5 FM15C – 8

Suitable for Solar hot water systems



Specifications

Model:	FM15C-1.4	FM15C-2.5	FM15C-8
Scale accuracy :	± 10% (at 1.4 l/min)	± 10% (at 2 l/min)	± 10% (at 8 l/min)
Max operating temperature:	170°C		
Inlet Connection:	½" Compression with O-ring groove		
Outlet Connection:	½" Compression with Nut and Olive		
Standards references :	AS3688 (End connections designed according to AS3688) AS4020 (Same material as used in AS4020 approved products)		
Watermark:	WMKA020042		
Dimension A :	102 mm (total length), 71 mm (between tube stops)		
Dimension B :	27 mm		

High Temperature Solar Automatic Air Eliminator, AEHT-10

Suitable for Solar hot water systems

Specifications

BODY :	CHROME PLATED DR BRASS
FLOAT :	STAINLESS STEEL
SEALS and " O " RINGS :	HIGH TEMPERATURE VITON
INLET :	R 3/8" (BSP tapered)
MAX TEMPERATURE :	230°C
MAX PRESSURE :	1000 kPa



High Temperature Check Valve, HTCVC

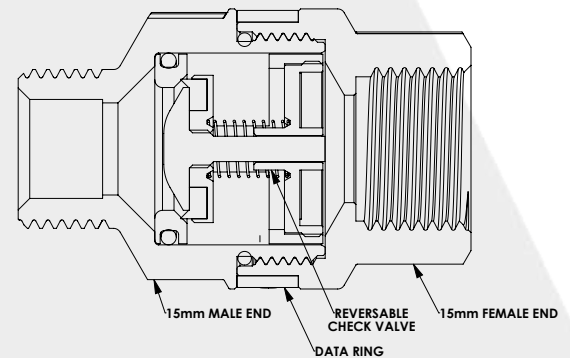
Suitable for solar hot water systems

Specifications

- Max. temperature: 250°C
- Max. supply pressure: 1400kPa
- Flow rate max.: 90 l/min
- End connections: 1/2" male X 1/2" female
- Body: DZR brass
- Seals: Silicone



MODEL NO.	DESCRIPTION	CONNECTIONS
HTCV-15F-15C	High temp. non return valve	Inlet 1/2" female BSP Outlet 1/2" male compression
HTCV-15C-15F	High temp. non return valve	Inlet 1/2" male compression Outlet 1/2" female BSP

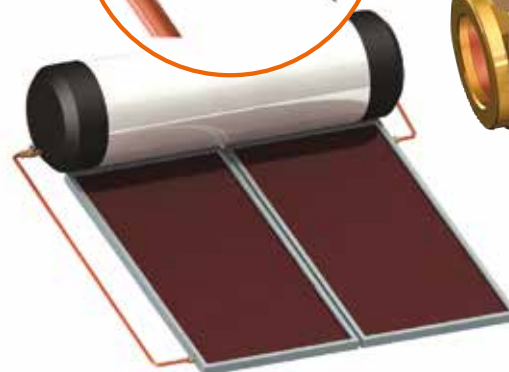


Thermosyphon Arrestor Valve, TA

Suitable for Solar hot water systems

Specifications

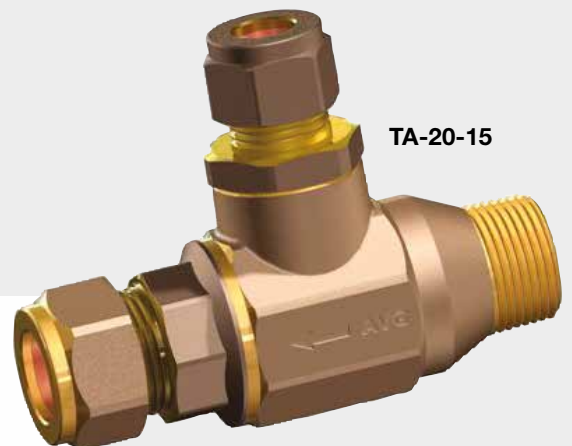
- Models: TA -20 Without cold water inlet connection
TA -20-15 With 15mm (1/2") copper compression cold water inlet connection
- Material : DR BRASS
- End Connections : R 3/4" X 3/4" copper compression.
- Cold Water Inlet : 15mm (1/2") copper compression.
- Seal Material : High temperature silicone rubber.
- Seat Material : DR BRASS
- Spring Material : 304 Stainless steel
- Max. working pressure : 1400 kPa
- Max. temperature : 99°C
- Wax Element : VERNET
- Activation Temperature : 60°C - 65°C



TA-20



TA-20-15



Solar Control Kits

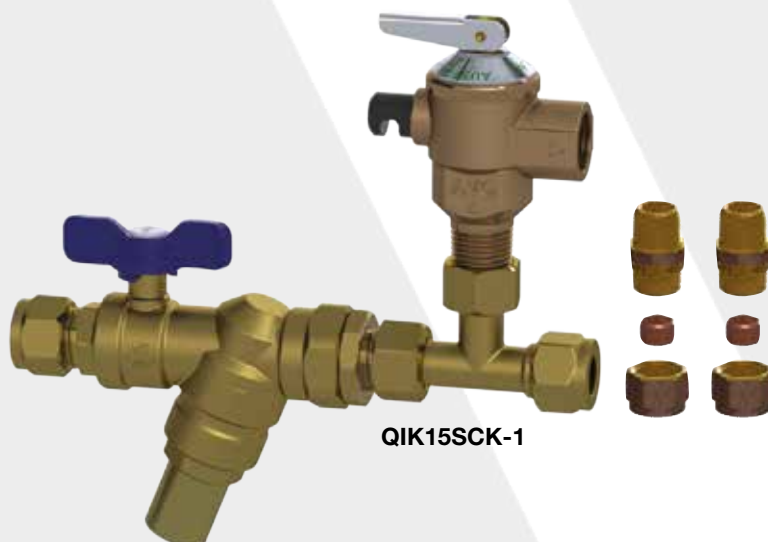
QIK15SCK-1, QIK15SCK-2

QIK15SCK

The new AVG Solar Control Valve is a cold water inlet combination valve for a roof mounted solar hot water heater. The valve assembly is installed in a convenient position for ease of operation.

This innovative cold water inlet combination incorporates an NRI/PRV, strainer and ECV all in one neat package designed with the installing plumber in mind.

The Solar Control Valve requires no thread sealant or tape to assemble and has 15mm compression



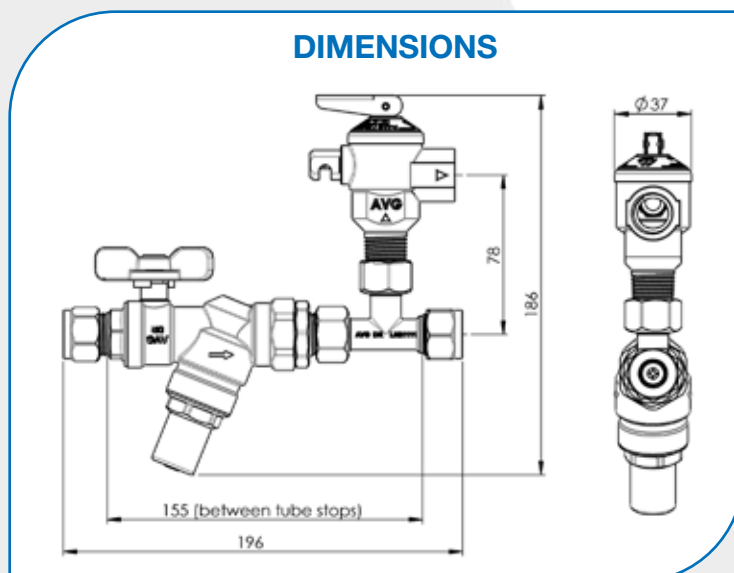
QIK15SCK-1

Features

- Compact design
- Convenient isolation for service or repairs
- Adjustable pressure
- All directional ECV position
- Replaceable ECV
- Vertical or horizontal orientation
- **High Performance TVA included in QIK15SCK-2 kits**

Specifications

Valve	DR brass
Line strainer	Stainless steel
Check valve cartridge.	NORYL
O rings	EPDM
End connections	15mm
Compression olives	Copper



QIK15SCK-2

