



## **Valves for Heating System Control**

Thermostatic Radiator Valves

Manual Radiator Valves

Motorised Zone Valves

Domestic Heating System Valves

# Valves for Heating System Control

Controlling domestic heating isn't all about the thermostats, programmers and timers. If these controls are the brains of the systems, it's the valves in the system that control the flow of the heating water around the house, effectively acting as the lungs of the house. It is vital that the heating system has the right valves for the right application but you should also ensure that you make the best possible product selection by:

- Opting for Motorised Zone Valves that are easy to service and have moving parts that are easy to replace without draining the system down
- Making sure that you source all your components from a recognised manufacturer that can offer you the full range of solutions you need
- Choosing the right Thermostatic Radiator Valves with the required functionality and the aesthetics to add to the décor
- Ensuring you get the product that gives you the best energy efficiency for the property.

## Why Honeywell Motorised Valves?

- Industry leading 2 port and mid position motorised valves
- Easy to wire and install
- Used in a wide range of flow control applications in domestic and light commercial central heating systems
- Spare parts available—can be fitted without drain down.



## Why Honeywell TRVs?

- Attractive TRV Heads offer choice for the customer
- Matching valve body across the Traditional and Classic designs
- Choice of fitting size and push fit fittings available
- Integrated balancing allows for radiator removal without affecting the balance of the system.



## Why Honeywell Domestic control?

- Control valves for a wide variety of applications.



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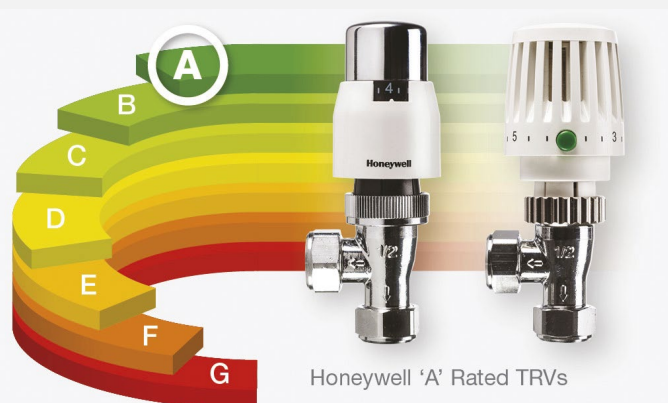
# Thermostatic Radiator Valves and manual valves

## Control the temperature of individual rooms to save additional energy

The Honeywell range of Thermostatic Radiator Valves combine good looks with modern expertise to provide highly effective individual room control irrespective of pipe size or radiator type. The comprehensive range of mechanical fittings means that you only have to choose Honeywell for all your radiator valve requirements.

All our Valencia TRVs include our advanced technology integrated balancing valve that allows the radiators to be balanced and then the balancing to be maintained when the radiator is temporarily removed to decorate the walls, paint the radiator or clean the heating system.

Our products provide the levels of control and comfort that support high levels of energy efficiency. Also, we always look to work with reputable classification systems so we can visibly demonstrate the efficiency of our products.



Honeywell 'A' Rated TRVs

The European TELL certification promotes responsible energy usage and provides information to customers when selecting products.



Our Classic and Traditional TRVs are TELL, EN215 & Keymark certified for 'A'-rated efficiency.

## HR92 evohome Electronic Radiator Valve Controller

### Attractively designed

These slim, ergonomically designed radiator controllers will fit on most standard TRV bodies. They are battery powered with a two year battery life and a battery low reminder visible on both the radiator controller screen and the evohome controller screen. The flip-up screen is backlit and can be positioned so that it can be easily viewed or folded away flat.

Easily integrated into the evohome control system



### Full of features

The backlit LCD screen displays the zone name and local set point temperature. The local set point temperature can easily be overridden by turning the dial at the top of the radiator controller. Override temperatures can be set in half degree increments and are effective until the next scheduled temperature change. There is an open window feature that recognises a sudden temperature drop and shuts off the local radiator.

## Simple to install

Radiator controllers provide the optimum solution for installers when considering installing heating zones as there are no additional zone valves required, which makes installation a lot quicker and cleaner. With existing TRV bodies already in place there is no need to drain down the system and they will fit on most compact radiators.

Controllers to be used as part of an evohome multi-zone system are available either individually or as a pack of four.

## The HR92 should be used as part of an evohome multi-zoning system

HR924UK	The evohome Radiator Multi-Zone Kit 4 wireless thermostatic Radiator Controllers
HR92UK	1 x evohome Radiator Controller

For more information about the evohome system and the benefits which it provides go to **evohome.info.com**

## HR90 Locally Programmable Electronic Thermostatic Radiator Valve Controller

A 'stand alone' electronic thermostatic radiator controller with three levels of preset time control allowing an additional level of control.

Cannot be integrated into the evohome wireless radiator control system



- Different operating modes and particular day functions
- Times/Temperatures set locally using the keys and display on the HR90 head
- Easy to read backlit display
- Quick to install.

HR90	Electronic Thermostatic Radiator Controller
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## Valencia Traditional TRV

The Valencia valve and matching lockshield valve uses the stylish manual body to ensure that there is a common look and feel in all situations where you need an electronic, a classic or a traditional TRV or a manual valve.



- Liquid sensor provides consistent and long-lasting performance
- Bi-directional flow valves – fit to either end of radiator with no need to change valve flow direction after installation
- Sensor head may be mounted vertically or horizontally by using the interchangeable radiator tail and copper tube fittings
- Set and forget integrated balancing insert reduces risk of call back
- 6mm play on radiator tail piece to allow for variation in radiator distance from valve
- Easy grip, non-slip TRV head design
- Energy saving button alerts user to the economical setting for comfort
- Can be removed and replaced without draining down using special tool.

VT117-15A	Traditional TRV 15mm Angled Body
VT117-15S	Traditional TRV 15mm Straight Body
VTL120-08S	Traditional TRV + Lockshield: 8mm Straight Body
VTL120-08A	Traditional TRV + Lockshield: 8mm Angled Body
VTL120-10A	Traditional TRV + Lockshield: 10mm Angled Body
VTL120-10S	Traditional TRV + Lockshield: 10mm Straight Body
VTL120-15A	Traditional TRV + Lockshield: 15mm Angled Body
VTL120-15D	Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 15mm Angled Body
VTL120-15A- DP	Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 2 x 10mm Push fittings; 15mm Angled Body
VTL120-15A-P	Traditional TRV + Lockshield: 2 x 10mm Push fittings; 15mm Angled Body
VTL120-15S	Traditional TRV + Lockshield: 15mm Straight Body
VTL120-15S-D	Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 15mm Straight Body
VTL120-15S-DP	Traditional TRV + Lockshield: 1 x Drain-off Tail Piece; 2 x 10mm Push fittings; 15mm Straight Body
VTL120-15S-P	Traditional TRV + Lockshield: 2 x 10mm Push fittings; 15mm Straight Body

## Valencia Classic TRV

The Classic TRV senses the air temperature around it and can limit room temperature by regulating individual radiator output in wet central heating systems. Mounted on the matching Valencia valve body, this TRV can be visually matched with any other Honeywell TRV.



All Honeywell TRVs are easily upgradeable to evohome zoning system using the HR92UK

- A-rated energy saving performance
- Bi-directional flow valves – fit to either end of radiator with no need to change valve flow direction after installation
- Liquid sensor provides consistent and long-lasting performance
- Sensor head may be mounted vertically or horizontally by using the interchangeable radiator tail and copper tube fittings
- Set and forget integrated balancing insert reduces risk of call back
- Classic good looks designed to appeal to homeowners
- Removable insert (V100U) for ease of servicing

VT200-15A	Classic TRV 15mm Angled Body
VT200-15S	Classic TRV 15mm Straight Body
VTL200-08A	Classic TRV + Lockshield: 8mm Angled Body
VTL200-08S	Classic TRV + Lockshield: 8mm Straight Body
VTL200-10A	Classic TRV + Lockshield: 10mm Angled Body
VTL200-10S	Classic TRV + Lockshield: 10mm Straight Body
VTL200-15A	Classic TRV + Lockshield: 15mm Angled Body
VTL200-15D	Classic TRV + Lockshield: 1x Drain-off Tail Piece 15mm Angled Body
VTL200-15A-DP	Classic TRV + Lockshield: 1x Drain-off Tail Piece 2 x 10mm Push fittings; 15mm Angled Body
VTL200-15A-P	Classic TRV + Lockshield: 2 x 10mm Push fittings; 15mm Angled Body
VTL200-15S	Classic TRV + Lockshield: 15mm Straight Body
VTL200-15S-D	Classic TRV + Lockshield: 1x Drain-off Tail Piece 15mm Straight Body
VTL200-15S-DP	Classic TRV + Lockshield: 1x Drain-off Tail Piece; 2 x 10mm Push fittings; 15mm Straight Body
VTL200-15S-P	Classic TRV + Lockshield: 2 x 10mm Push fittings; 15mm Straight Body

- 15mm, 10mm and 8mm angled and straight bodies available
- 6mm play on radiator tail piece to allow for variation in radiator distance from valve.

### Upgradeable TRV heads with different finishes

Match the TRV head to the décor of the room – easily interchangeable heads available as accessory packs. Choose from a Polished Chrome, a Brushed Chrome and a Black & Chrome finish. You can also order a replacement White TRV head.



**T4221GB**  
Polished  
Chrome

**T4111GB**  
Brushed  
Chrome

**T4321GB**  
Black &  
Chrome

**T4021GB**  
Replacement  
White



## VT15 'Contract' Thermostatic Radiator Valve

The VT15 Radiator Thermostat, which has full CEN Standard approval to EN215, regulates individual radiator output in wet central heating systems.

- Bi-directional valve body and can be mounted vertically or horizontally at either end of the radiator
- 6mm of play on radiator tail piece to allow for variation in radiator distance from valve
- Wax sensor provides consistent and reliable performance
- Range stops included in head



Compatible with the evohome radiator controller

VH15-EG	Dual Function 15mm angled, Lockshield and Manual Valve
VT15-AG	Radiator Thermostat Valve with Reversible Flow, Angled Body and 8mm Connection and Instructions
VT15-BG	Radiator Thermostat Valve with Reversible Flow, Angled Body and 10mm Connection and Instructions
VT15-EG	Radiator Thermostat Valve with Reversible Flow, and 8mm Connection and Instructions
T9002W0	Replacement Thermostatic Head

- Valve can be removed/replaced without draining down the system using a special tool
- The matching lockshield can also be used as a manual valve and is suitable for two-pipe, fully pumped systems up to 10 bar static pressure.

## Valencia Manual Radiator Valve Pack



Valencia manual valve and lockshields

Using the Valencia Manual Radiator Valve Pack ensures you can visually match with our electronic, traditional and classic TRV heads.

The Manual Valve allows the user to switch the radiator on/off and the lockshield valve limits water flow through individual radiators in wet central heating systems.

The valves can be mounted vertically or horizontally at either end of a radiator.

- Bi-directional flow design
- Positive shut off
- Can be removed without draining down using optional accessory.

VHL120-08A	Manual Valve + Lockshield: 8mm Angled Body
VHL120-08S	Manual Valve + Lockshield: 8mm Straight Body
VHL120-10A	Manual Valve + Lockshield: 10mm Angled Body
VHL120-10S	Manual Valve + Lockshield: 10mm Straight Body
VHL120-15A	Manual Valve + Lockshield: 15mm Angled Body
VHL120-15D	Manual Valve + Lockshield: 1 x Drain-off Tail Piece 15mm Angled Body
VHL120-15A-DP	Manual Valve + Lockshield: 1 x Drain-off Tail Piece 2 x 10mm Push fittings; 15mm Angled Body
VHL120-15A-P	Manual Valve + Lockshield: 2 x 10mm Push fittings; 15mm Angled Body
VHL120-15S	Manual Valve + Lockshield: 15mm Straight Body
VHL120-15S-D	Manual Valve + Lockshield: 1 x Drain-off Tail Piece 15mm Straight Body
VHL120-15S-DP	Manual Valve + Lockshield: 1 x Drain-off Tail Piece; 2 x 10mm Push fittings; 15mm Straight Body
VHL120-15S-P	Manual Valve + Lockshield: 2 x 10mm Push fittings; 15mm Straight Body

## Honeywell 'Design' Radiator Valves and matching Lockshield Valves



A range of chrome designer TRVs and valves

TRVs	Lockshields	TRV Heads	Handwheel
V2082ESL15UK 15mm Design Radiator Valve – Full Chrome, angled body	V2482E0015UK 15mm Design Lockshield Valve – Full Chrome, angle body	T4021GB White/Chrome Compatible with Radiator Valve Bodies	VA2200C002 Full Chrome Manual Hand-wheel for Radiator Valve body
V2082DSL15UK 15mm Design Radiator Valve – Full Chrome, straight body	V2482D0015UK 15mm Design Lockshield Valve – Full Chrome, straight body	T4111GB Brushed Chrome Compatible with Radiator Valve Bodies	
V2082RSL15UK 15mm Design Radiator Valve – Full Chrome, double angle right body	V2482R0015UK 15mm Design Lockshield Valve – Full Chrome, double angle right body	T4221GB Polished Chrome Compatible with Radiator Valve Bodies	
V2082LSL15UK 15mm Design Radiator Valve – Full Chrome, double angle left body	V2482L0015UK 15mm Design Lockshield Valve – Full Chrome, double angle left body	T4321GB Black/Chrome Compatible with Radiator Valve Bodies	

# Honeywell Heating Valve Accessories

Our Thermostatic and manual radiator valves are supported by a wide range of replacement heads and other accessories.

These are designed to ensure that, whatever application you need to cater for, there is a Honeywell product that you can use.

## Robust TRV Heads

Ideal for Public Buildings, Schools, etc.

T7001W0	Robust TRV Head with Zero Position
T700120	Robust TRV Head with 2.0m remote sensor



## Remote TRV Heads

Ideal for Concealed and Low Surface Temperature Radiators

T950120W0	2.0m Remote Sensor and control
T950150W0	2.0m Remote Sensor and control



## Traditional TRV Head

Replace old, damaged or discoloured Traditional TRV heads with a new Traditional head

T1001W0GB	Replacement Valencia Traditional TRV Head
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## Valve accessories

Choose from a range of useful replacement parts or add integrated balancing or theft protection.

H100-1/2A	Pack of 10 replacement Valencia Manual Heads		TA6900A001	Valencia White TRV Theft Protection Ring	
V120-15A	Replacement Valencia TRV body with integrated balancing insert		VS1200SLGB11	Replacement Valencia Integrated Balancing Insert	
	The V120-15A can also be used with an evohome HR92 if a replacement TRV body is required.		VA8200A001	Valencia Insert replacement and cleaning tool	

# Motorised Zone Valves

## Control the flow of hot water to the heat source (radiator or stored hot water)

The range of leading motorised zone valves provides a full set of solutions to suit all domestic heating installations.

The two port motorised valve has a wide range of flow control applications in domestic and light commercial central heating systems.

The motorised mid-position valves have been designed to control the flow of water in domestic central heating systems,

where both radiator and hot water cylinder circuits are pumped. They are typically suited for small to medium sized installations.

The motorised diverter valves are replacement products and have been designed to control the flow of water between heating and hot water in domestic fully pumped central heating systems.

## V4043 Motorised Two Port Zone Valve

The V4043 series of two port Motorised Valves has a wide range of flow control applications in domestic and light commercial central heating systems.

The V4043H normally closed models have end switches for electrical control of pump and/or boiler. The V4043B normally open models are particularly applicable to control of solid fuel systems, since they will always fail-safe in the event of a power failure.

- Motor open
- Spring return action
- Manual lever for filling and draining the system
- Powerhead replaceable without draining down
- Potential free end switch for electrical control of pump and/or boiler
- Quiet operation, minimal power consumption.

### Options

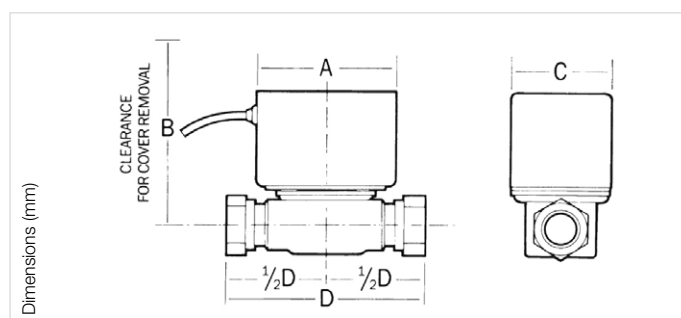
- Normally open and normally closed versions available
- 22mm/28mm or 1/2", 3/4", 1" BSP connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.



### Specifications – All Motorised Valves

Power Supply	230 VAC 50Hz
Power Consumption	6W
Electrical Connections	1m flying lead, heat resistant cable
Timings (Nominal)	Valve opens to Port A (from Port B) in 18 seconds (under power). Valve opens to Port B in 8 seconds (under spring return). Continuous operation of the valve motor at the fully open position (Port A only) is not recommended
Ambient Temperature Range	5 to 50°C
Flow Temperature	5 to 88°C
Static Pressure	8.6 bar max
Flow Directions	Inlet Port AB: Port A open when energised; Port B open when deenergised
Standards & Approvals	CE, UL, CSA 89/336/EEC & 73/23/EEC

V4043B1257	Normally open, 22mm compression. No end switch. No manual lever. 6.9 kV. Maximum close-off differential pressure 0.55 bar
V4043B1265	Normally open, 28mm compression. No end switch. No manual lever. 8.6 kV. Maximum close-off differential pressure 0.45 bar
V4043C1156	Normally closed, 1/2" BSP female. No end switch. 3.0 kV. 1.38 bar max differential pressure
V4043H1056	Normally closed, 22mm compression. SPST end switch. 6.9 kV. 0.55 bar max differential pressure
V4043H1007	Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure
V4043H1106	Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure
V4043H1080	Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure



A	87	D	1/2"	94
B	98		2mm	112
C	60		1"	92
			28mm	127

# V4073A Motorised Mid-Position Valve

The V4073A Motorised Mid-Position Valve has been designed to control the flow of water in domestic central heating systems, where both radiator and hot water cylinder circuits are pumped. It is typically suited for small to medium sized installations.

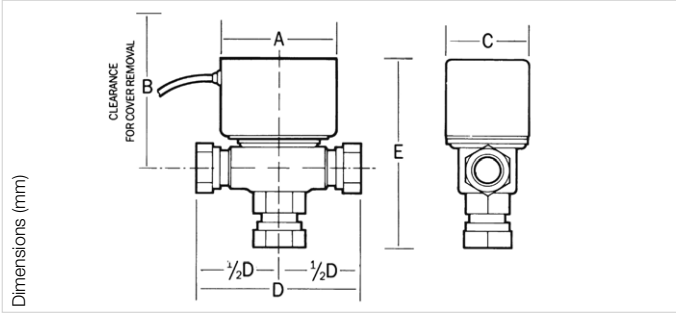


- Spring return action
- Three position operation
- Powerhead replaceable without draining down
- Manual lever for filling/draining down
- Quiet operation, minimal power consumption
- Provides electrical output to boiler and/or pump.

## Options

- 22mm/28mm or 1/2", 3/4", 1" connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.

V4073A1039	22mm compression. 6.0 kV. Maximum close-off differential pressure 0.69 bar
V4073A1054	3/4" BSP Female compression fittings. 6.0 kV. Maximum close-off differential pressure 0.69 bar
V4073A1088	28mm compression. 8.1 kV. Maximum close-off differential pressure 0.55 bar
V4073A1062	1" BSP Female compression fittings. 8.1 kV. Maximum close-off differential pressure 0.55 bar



A	87		E	3/4"	124
B	98			22mm	133
C	60			1"	124
				28mm	137
D	3/4"	94			
	22mm	112			
	1"	94			
	28mm	117			

# V4044C Motorised Diverter Valve

The V4044C Motorised Diverter Valve has been designed to control the flow of water between heating and hot water in domestic fully pumped central heating systems. The Diverter Valve will only allow flow to one zone at any one time.



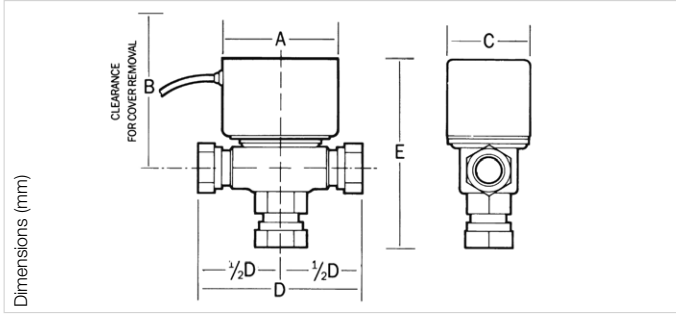
The V4044 is used in the Sundial W Plan Hot Water priority system.

- Spring return action
- Three position operation
- Powerhead replaceable without draining down
- Manual lever for filling/draining down
- Quiet operation, minimal power consumption
- Provides electrical output to boiler and/or pump.

## Options

- 22mm/28mm or 1/2", 1" connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.

V4044C1288	22mm compression. 6.0 kV. Maximum close-off differential pressure 0.69 bar
V4044C1098	3/4" BSP Female compression fittings. 6.0 kV. Maximum close-off differential pressure 0.69 bar
V4044C1569	28mm compression. 8.1 kV. Maximum close-off differential pressure 0.55 bar
V4044C1494	1" BSP Female compression fittings. 8.1 kV. Maximum close-off differential pressure 0.55 bar



A	87		E	3/4"	124
B	98			22mm	133
C	60			1"	124
				28mm	137
D	3/4"	94			
	22mm	112			
	1"	94			
	28mm	117			



## Motorised Zone Valve Spares



### Replacement Motor Kit

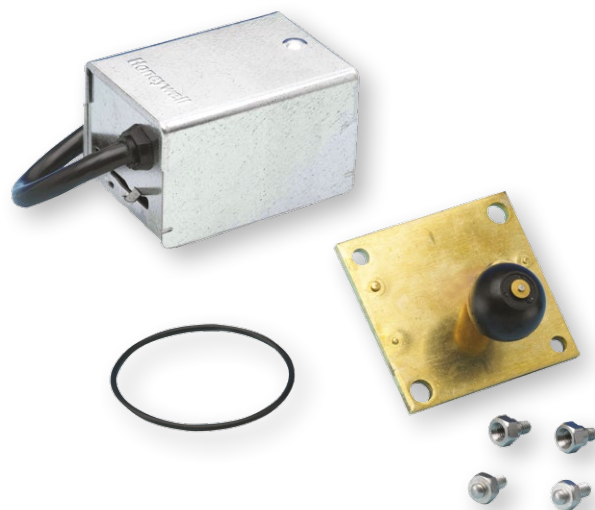
The 40002737-003 Replacement Motor is suitable for all V4043 two port valves, V4044 three port diverter valves, and V4073 mid-position diverter valves, irrespective of valve body size and pipe connection type. The 40001011-002 Replacement Motor is suitable for old style V8043 and V8044 motorised valves.

It may also be used to provide 24 volt 50Hz motor operation on V4043 and V4044 series valves.

- One motor for all V4043, V4044 and V4073 series motorised valves
- Two wire connection – polarity free
- Insulated screw connectors provided.

### Option

- 24 volt 50Hz motor.



### Replacement Powerhead and Spares

The 40003916 Powerheads enable the complete powerhead assembly to be replaced without draining down on V4043, V4044 and V4073 series valves. On older style valves pre-1985, which do not have the replaceable head feature, the adaptor plate assembly can be used to upgrade the valves, to allow the replaceable powerhead to be used.

- One powerhead for each valve series
- Powerhead assembly can be replaced without draining down
- VC valve cartridges can be replaced without draining down.

### Options

- Adapter plate assembly allows old style valves to be updated to replaceable powerhead type
- Ball and 'O' ring kit.

Type	Order Code	Description	For Which Valves
<b>Replacement Motor Kits</b>			
240 VAC replacement motor	40002737-003	Replacement motor kit with spare connectors, screws and full instructions	V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve
24 VAC replacement motor	40001011-002	Replacement motor kit for low voltage applications with spare connectors, screws and full instructions	V4043A Motorised Zone Valve V4044C Motorised Diverter Valve
<b>Replacement Powerheads</b>			
Replacement Powerhead	40003916-001	Complete Powerhead Assembly	V4043 Motorised Zone Valve
Replacement Powerhead	40003916-002	Complete Powerhead Assembly	V4073 Motorised Mid-position Diverter Valve
Replacement Powerhead	40003916-003	Complete Powerhead Assembly	V4044 Motorised Diverter valve
<b>Plate &amp; Assembly Kit</b>			
Plate & ball assembly kit	40003918-006	Plate & ball assembly kit – use with valves that do not have replaceable heads (Pre-1985)	V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve
<b>Replacement 'O' Ring Kit</b>			
Replacement 'O' ring kit	272752A/U CARD	Replacement ball & 'O' ring kit	V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve

# Domestic Heating System Valves

Our range of automatic bypass valves is particularly beneficial in improving boiler efficiency and improving control of systems fitted with TRVs, through effective control of water flow.

Our range of valves saves energy by only allowing flow through the bypass when needed. Building regulations state that if a bypass is installed, an automatic bypass valve must be fitted.

## EA122 Automatic Air Vent

The Automatic Air Vent EA122 is suitable for heating systems and other closed circuit hot water systems (not potable water) which require the efficient, automatic removal of air when a system is filling with water.



The vacuum break on the bottom of the valve prevents an air lock forming and encourages air to be released from water. The air vent can be fitted anywhere in the positive pressure side of the system where air is likely to be trapped.

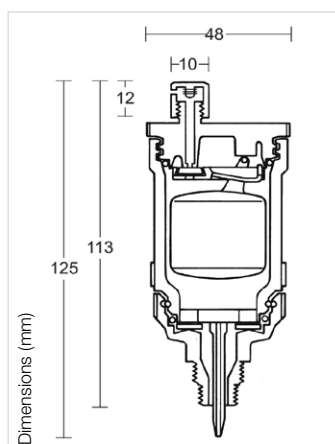
Air vents should always be fitted in an accessible area, which can be seen and serviced easily.

- Integral stop valve. Enables seat to be cleaned without draining the system
- Vacuum break ensures air collection
- Simple servicing and cleaning
- 1/8" and 3/8" BSP connections

- Expanding disc under cap helps prevent leaks due to dirt under seat
- 1/8" to 1/2" adaptor.

### Option

- Q122A facilitates waste connection to air vent.



EA122 - AB	Automatic air vent with 1/8" and 3/8" BSP connections and 1/2" adaptor
Q122A1001	Female iron fitting, to facilitate outlet connection to a waste pipe. Size: M8 – 6mm compression

## DU144 Automatic Bypass Valve

The DU144 Automatic Bypass Valve controls the flow of water through a bypass circuit which is installed between flow and return pipework, typically at or near the boiler.



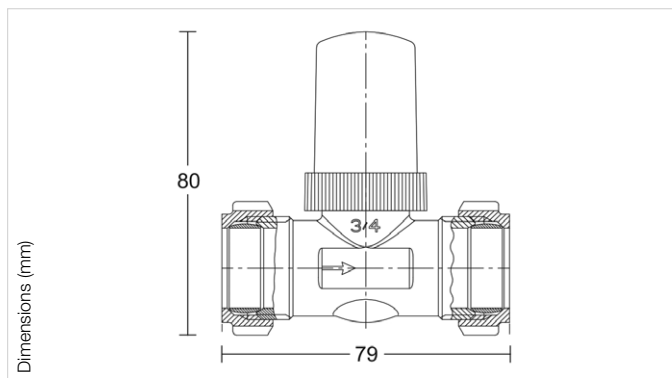
Building regulations advice states that if a bypass is installed, an automatic bypass valve must be fitted.

The DU144 saves energy by only allowing flow through the bypass when needed, i.e. when flow through the system is reduced when zone valves or radiator thermostats are closing.

- Unique and simple adjustment mechanism
- Wide differential pressure range from 0.1 to 0.6 bar
- 22mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
- Lockable set pressure prevents inadvertent adjustment
- Factory set at 0.2 bar.

DU144A1001	Automatic bypass valve with set pressure scale and protective cap, with 22mm compression connections
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The DU144 Automatic Bypass Valve can serve two functions:  
a) As a boiler bypass as required by boiler manufacturers  
b) As a system bypass to accommodate pump overrun and to alleviate system noise that can be caused by increased pressure when thermostatic radiator valves or zone valves close down



## DU145 Angled Automatic Bypass Valve

The DU145 Automatic Bypass Valve controls flow of water through a bypass circuit which is installed between flow and return pipework. Building regulation advice states that if a bypass is installed, an Automatic Bypass Valve must be fitted. The DU145 saves energy by only allowing flow through the bypass when needed, i.e. when flow through the system is reduced when zone valves or radiator thermostats are closing. The use of an Automatic Balancing Valve is recommended by the UK government as Best Practice in the CHES (Central Heating System Specifications) guide to central heating systems.



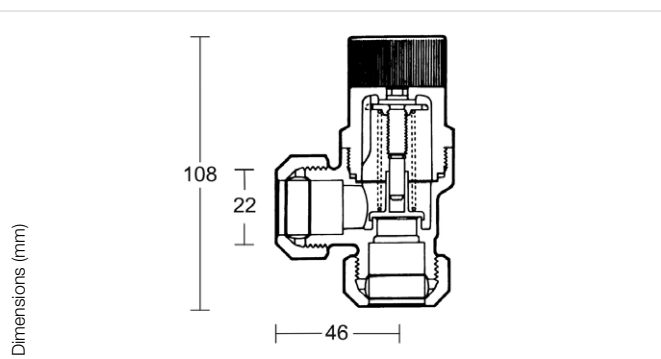
- Unique and simple adjustment mechanism
- High capacity flow – up to 50 litres per minute
- Wide differential pressure range from 0.1 to 0.6 bar
- 22mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
- Lockable set pressure prevents inadvertent adjustment.

### DU145 - 3/4B

Automatic bypass valve with set pressure indicator, lockable adjustment knob and 22mm compression connections

DU145 Automatic bypass valve can serve two functions:

- As a boiler bypass as required by boiler manufacturers
- As a system bypass to accommodate pump overrun and to alleviate system noise that can be caused by increased pressure when thermostatic radiator valves or zone valves close down



**Locking:** Both DU144 & DU145 Valves: Once pressure has been set according to the scale below, the valve locks in position by tightening the screw on the cap.

Scale	1	2	3	4	5	6
Bar	0.1	0.2	0.3	0.4	0.5	0.6

## VF06 Sealed System Filling Valve

The VF06 is a combination filling valve for sealed heating systems, incorporating a pressure-reducing valve, stop valve, a non-return valve and hose connections. Factory set to 1.5 bar, the VF06 can be adjusted on site to between 0.5 and 3.0 bar.



The VF06 ensures that the system is not inadvertently over pressurised while filling, which can cause damage to heat exchangers, expansion vessels and joints. It also enables quick and trouble-free refilling of the system should pressure loss occur.

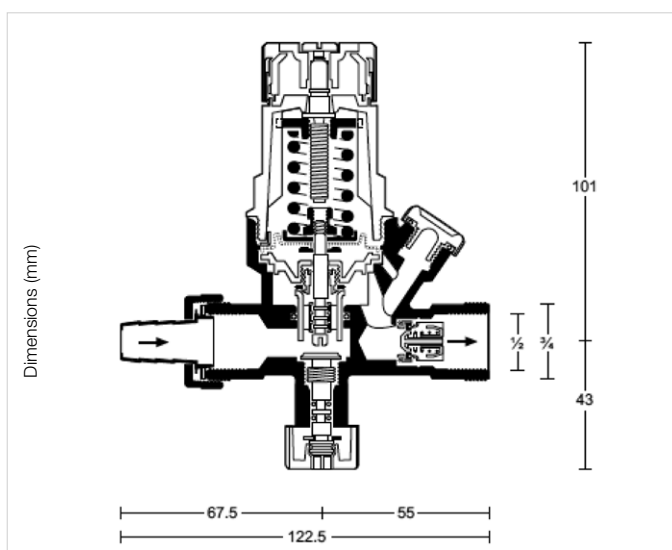
- Automatic filling
- Unique and simple adjustment mechanism
- Integral stop valve
- Integral non-return valve
- Integral strainer
- Pressure gauge tapping.

### Options

- Hose union or threaded union connector
- Accessory MF126 - A4 Pressure gauge with 0 to 4 bar range.

### Specifications

Maximum Working Pressure:	16 bar
Maximum Temperature:	70°C
Outlet Pressure:	Adjustable 0.5 to 3.0 bar
Factory Set:	1.5 bar
Connection Size:	1/2" BSP female & 3/4" BSP male
Pressure Gauge Tapping:	1/4" BSP
Housing Material:	Brass



VF06 - 1/2 A	Filling valve with 1/2" hose connection
VF06 - 1/2 B	Filling valve with 1/2" threaded union connection
MF126 - A4	0 to 4 bar pressure gauge with 1/4" connection
D06FA - 1/2	Spare valve insert complete



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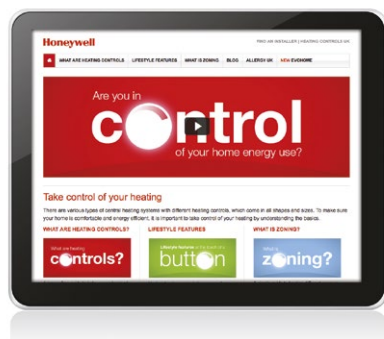
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