



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.

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The importance of a modern heating control system using Thermostatic Radiator Valves (TRVs)



New research carried out on behalf of TACMA, the controls association within BEAMA, shows that the installation of effective temperature controls in home heating systems has a far more significant effect on minimising energy use than has previously been predicted.

Tests in a typical UK house built within an environmental chamber show that energy consumption by the heating systems can be reduced by up to 40% through the installation of a room thermostat and TRVs, with installation costs recovered in a year or less.

Test results TACMA 2013			Estimated cost effectiveness of controls	
Tests carried out	24 hour heating cost	Reduced cost from controls	Type of upgrade	Potential annual saving
Control by room thermostat + TRVs	£3.15	40.7%	Install a room thermostat and TRVs	£409.86
			Install TRVs to a system with an existing room thermostat	£289.37

The tests also showed how the application of TRVs providing independent temperature control in every room can significantly improve comfort for householders by providing satisfactory heat distribution around a dwelling. The tests show this is not achieved without TRVs, even if the system is balanced.

It is clear from this latest evidence that all homes with a conventional hydronic heating system should have a room thermostat and a full set of TRVs. Benefits for householders will be systems that work as intended, delivering both comfort and efficiency.

Thermostatic Radiator Valves

Controls the temperature of an individual room by restricting the flow of heated water to the radiators

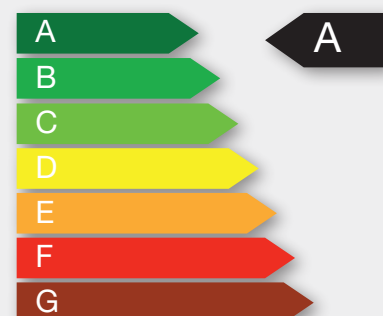
The Honeywell range of Thermostatic Radiator Valves combine good looks with modern expertise to provide highly effective individual room control irrespective of pipe size or radiator type. The comprehensive range of mechanical fittings mean that you only have to choose Honeywell for all your radiator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

Energy Efficient Thermostatic Radiator Valves

It is important to us that we sell the most energy efficient products we can. Our products provide the level 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. The European TELL certification promotes responsible energy usage and provides information to customers when selecting products. 



Our VT200 Radiator Thermostat is an A rated product.



HR92 evohome Radiator 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.



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.

HR924UK	The evohome Radiator Multi-Zone Kit 4 wireless thermostatic radiator controllers
HR92UK	1 x evohome Radiator Controller
EVA1	Adaptor to fit Danfoss valve body
AOV30	Adaptor to fit Oventrop valve body
ACH28	Adaptor to fit Herz valve body

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



Used in conjunction with the evohome controller

HR90 Electronic Thermostatic Radiator Controller

The HR90 Electronic TRV is an electronic thermostatic radiator controller that offers three levels of pre-set time control, which introduces timing functionality into a traditional



temperature measurement device. Different operating modes and particular day functions can also be selected if required. There are Eco, Holiday and Day-off functions and the time programmes have six set points for bespoke control for each room.

It is a battery powered stand-alone controller for radiator heating control applications. The backlit display can be adjusted for ease of reading. It's quick to install. After installation the HR90 starts to operate to the factory set programme.

VT200 Classic Thermostatic Radiator Valve

The VT200 Classic Thermostatic Radiator Valve senses the air temperature around it and can limit room temperature by regulating individual radiator output in wet central heating systems. Radiator thermostats are particularly useful for taking advantage of uncontrolled heat gains (e.g. solar gain or an open fire in a living room).



- A-rated performance
- Bi-directional valve body
- Liquid sensor provides consistent and long-lasting performance
- Sensor head may be mounted vertically or horizontally by interchanging radiator tail and copper tube fittings
- Integral balancing adjustment
- Classic good looks designed to appeal to home owners
- Removable insert (V100U) for ease of servicing

VT200E - 1/2EG	Thermostatic Radiator Valve with reversible flow, angled body and 15mm connection
VT200E - 1/2BG	Thermostatic Radiator Valve with reversible flow, angled body and 10mm connection
VT200E - 1/2AG	Thermostatic Radiator Valve with reversible flow, angled body and 8mm connection
VT200EPFD - 1/2BG	Thermostatic Radiator Valve with reversible flow, angled body and 10mm straight push-fit connection
VT200EPFE - 1/2BG	Thermostatic Radiator Valve with reversible flow, angled body and 10mm angled push-fit connection
VT200D - 1/2EG	Thermostatic Radiator Valve with straight body and 15mm connections
T4021GB	Replacement white thermostatic head (all sizes)
T4111GB	Replacement head brushed chrome
T4221GB	Replacement head polished chrome
T4321GB	Replacement head black & chrome

Options

- 15, 10 and 8mm angled versions
- 15mm straight version
- 6mm play on radiator tailpiece to allow for variation in radiator distance from valve.

Interchangeable 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.



Polished
Chrome

Brushed
Chrome

Black &
Chrome

Replacement
White

VTL120 Traditional Thermostatic Radiator Valves and Lockshield Valve Pack



The 'RadPlan' VTL120 is a matching 'traditional' TRV and lockshield valve set. The TRV regulates heat output and the lockshield valve limits water flow through individual radiators in wet central heating systems.

- Thermostatic & Lockshield Radiator Valve in one box
- Liquid sensor provides consistent and long-lasting performance
- Sensor head may be mounted vertically or horizontally by interchanging radiator tail and copper tube fittings
- Matching bi-directional valve bodies
- Energy saving button alerts user to economical setting for comfort
- VA8200A001 tool allows insert removal/replacement without draining down system

VTL120E - 015EG	Reverse flow TRV and matching lockshield valve. Angled bodies with 15mm connections and instructions
VTL120E - 015AGBG	Reverse flow TRV and matching lockshield valve. Angled bodies with 8 & 10mm connections and instructions
VTL120D - 015EG	Reverse flow TRV and matching lockshield valve. Straight bodies with 15mm connections and instructions
VA8200A001	Insert replacement tool for TRV

Options

- 15mm and 8/10mm angled versions
- 15mm and 8/10mm straight versions.

VT117 Traditional Thermostatic Radiator Valve

The VT117E Thermostatic Radiator Valve is a traditional styled radiator thermostat. It is designed to blend with any décor and will give you years of reliable and consistent service. The best value for money there is. Building regulations require that radiator thermostats are installed to radiators, except in rooms where a room thermostat is fitted.



- Bi-directional valve body
- Liquid sensor provides consistent and long-lasting performance
- Sensor head may be mounted vertically or horizontally by interchanging radiator tail and copper tube fittings
- Integral balancing adjustment
- Energy saving button alerts user to economical setting for comfort

VT117E - 1/2EG	Thermostatic Radiator Valve with reversible flow, angled body and 15mm compression connection
VT117E - 1/2BG	Thermostatic Radiator Valve with reversible flow, angled body and 10mm compression connection
VT117E - 1/2AG	Thermostatic Radiator Valve with reversible flow, angled body and 8mm compression connection
VT117EPFE - 1/2BG	Thermostatic Radiator Valve with reversible flow, angled body and 10mm angled push-fit connection
VT117D - 1/2EG	Thermostatic Radiator Valve with straight body and 15mm compression connections

- 6mm play on radiator tailpiece to allow for variation in radiator distance from valve.

Options

- 15, 10 and 8mm angled versions
- 15mm straight version.

VT15 Radiator Thermostat

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



Because the valve body design is not sensitive to water flow direction and its radiator tail and copper tube connections are interchangeable, the VT15 Radiator Thermostat can be mounted vertically or horizontally at either end of the radiator.

- Bi-directional valve body
- Wax sensor provides consistent and reliable performance
- Sensor head may be mounted vertically or horizontally by interchanging radiator tail and copper tube fittings
- Range stops included in head

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
VA8200A001	Insert replacement

- 6mm of play on radiator tailpiece to allow for variation in radiator distance from valve

Options

- 15, 10 and 8mm angled versions
- VA8200A001 tool allows removal/replacement without draining down system.

VT7000 Robust Radiator Thermostat

- Heavy duty and robust version, especially designed for industrial, commercial and public buildings
- Equipped with liquid sensor and memory clip



The radiator thermostat consists of:

- Handwheel with lid and socket
- Honeywell HW M30 x 1.5 connection and 11.5 mm closing dimension
- Internal or remote sensor with support cage
- Spindle assembly and connection nut.

Model	0	T	1	2	3	4	5	6
T7001W0	n/a	6°C Frost	11°C	14°C	17°C	20°C	23°C	26°C
T7001B3	6	6°C Frost	10°C	15°C	20°C	23°C	26°C	n/a

Thermostat connection	M30 x 1.5 HW type
Set point range	0 - * - 1.5 (with zero-position) * - 1.5 (without zero-position) * - 1.3 (without zero-position)
Temperature range	1...28°C (34...82°F) (with zero-position) 6...28°C (43...82°F) (without zero-position) 6...21°C (43...70°F) (without zero-position)
Closing dimension	11.5 mm HW type
Bending force	> 1000 N

TA1000A001	Decoring for connection nut, white (RAL9016); 10 pair, 20 pieces
TA1000A002	Decoring for connection nut, chrome; 10 pair, 20 pieces
TA1010DA01	DA-Adapter from Danfoss snap connection RA to M30 x 1.5
TA1010HZ01	HZ-Adapter from M28 x 1.5 with 9.5 mm closing dimension to M30 x 1.5 with 11.5 mm closing dimension
TA2080A001	Theft-protection ring with Allen screws
VA8210A001	Special tool for assembly of thermostat

Manual Radiator Valves

Honeywell provides an extensive range of matching Manual Radiator Valves to complement its Thermostatic Radiator Control Range.

Produced to a high specification, these valves make perfect partners when specifying complete heating systems or upgrading existing controls.

VH117/VH200 Manual Radiator Valves

The VH117 and VH200 are Manual Radiator Valves which combine the function of a lockshield and wheelhead in one valve body. Both can be easily upgraded to radiator thermostats simply by changing the wheelhead to a Honeywell Thermostatic Radiator Valve Head. The VH117 and VH200 provide the specifier or installer with high quality, matching lockshield valves, when used with the VT117 or VT200 Radiator Thermostats.



- Dual function wheelhead and lockshield in one body
- High quality stem valve body ensures seize and leak free operation

Complements VT117/VT200 Thermostatic Radiator Valves

VH117E - 1/2E	Nickel-plated, dual function lockshield and wheelhead valve
VH200E - 1/2E	Chrome-plated, dual function lockshield and wheelhead valve
H100 - ZE	Manual head with locking ratchet. Pack of 25

- Simple upgrade to thermostatic valve without draining the heating system
- Provides matching valve at each end of the radiator
- Ideal complement to Honeywell VT117 and VT200 Radiator Thermostats
- Remove insert without draining down for simple servicing
- Optional locking facility for public areas.

VH15 Manual / Lockshield Radiator Valve

The VH15 Manual Radiator Valve can be used as a lockshield or manual valve.

Suitable for two-pipe, fully pumped systems up to 10 bar static pressure.

The VH15 provides the installer or specifier with a matching manual valve when used with the Honeywell VT15 Thermostatic Radiator Valve.



Complements VT15 Thermostatic Radiator Valve

VH15 - EG	Dual function 15mm angled, lockshield and manual valve
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- Dual function body can be used as a Manual or lockshield Valve
- Reversible flow body can be mounted vertically or horizontally
- Characterised seat enables precise adjustment when used for balancing
- Provides matching valve at each end of the radiator
- Used in conjunction with Honeywell VT15 Thermostatic Radiator Valve
- 15mm copper connections.

VHL120 Manual Radiator Valve Pack

Part of the VTL120 family, the VHL120 RadPlan is a matching Manual Valve and lockshield valve set. 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
- Can be mounted vertically or horizontally
- Positive shut off

Part Number	Type	Size	Pattern
VHL120E-015EG	Traditional Manual + Lockshield Pack	15mm Compression	Angled
VHL120E-015EGDO	Traditional Manual + Lockshield Pack + Drain-off Tailpiece	15mm Compression	Angled
VHL120E-015EGPF	Traditional Manual + Lockshield Pack	10mm Pushfit	Angled
VHL120E-015EGDOPF	Traditional Manual + Lockshield Pack + Drain-off Tailpiece	10mm Pushfit	Angled

Option

- VA8200A001 tool allows Manual Valve inset removal/replacement without draining down system.

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 provide 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 2 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 & 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

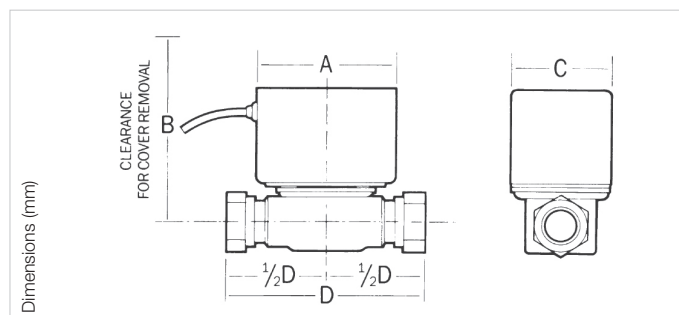
- Normally open & normally closed versions available
- 22mm/28mm or 1/2", 3/4", 1" BSP connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.



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

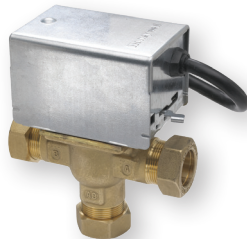
V4043B1257	Normally open, 22mm compression. No end switch. No manual lever. 6.9 kV. Maximum close-off differential pressure 0.55 bar
V4043B1265	Normally open, 28mm compression. No end switch. No manual lever. 8.6 kV. Maximum close-off differential pressure 0.45 bar
V4043C1156	Normally closed, 1/2" BSP 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.

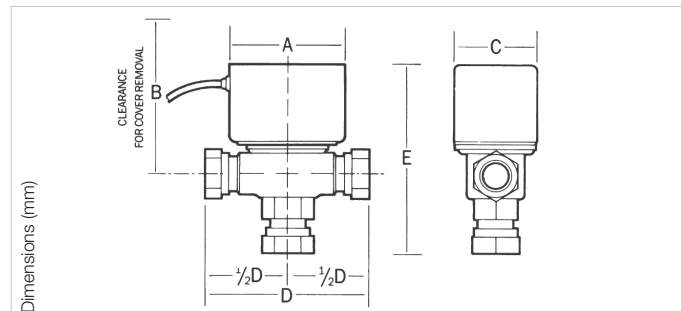


- Spring return action
- Three position operation
- Powerhead replaceable without draining down
- Manual lever for filling/draining down
- Quiet operation, minimal power consumption
- Provides electrical output to boiler and/or pump

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.



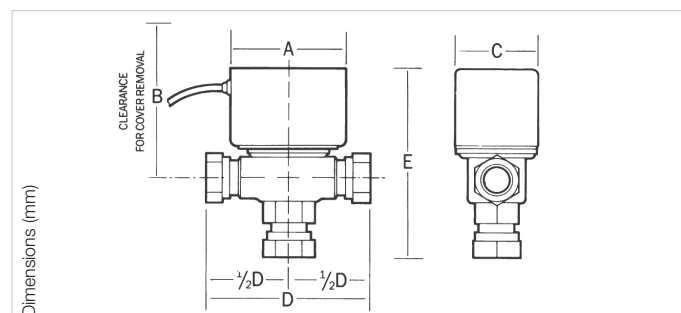
The V4044 is used in the Sundial W Plan Hot Water priority system.

- 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 did 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
Replacement Motor Kits			
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
Replacement Powerhead			
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
Plate & Assembly Kits			
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
Replacement 'O' Ring Kits			
Replacement 'O' ring kits	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 save 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.

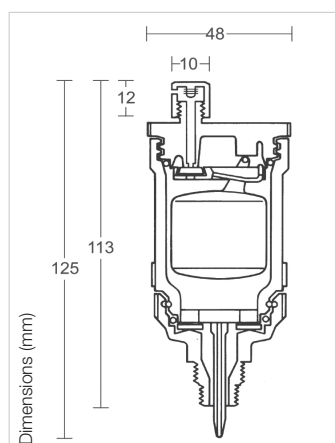
Air vents should always be fitted in an accessible area, which can be seen and serviced easily.

- Integral stop valve. Enables seat to be cleaned without draining the system
- Vacuum break ensures air collection
- Simple service 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.

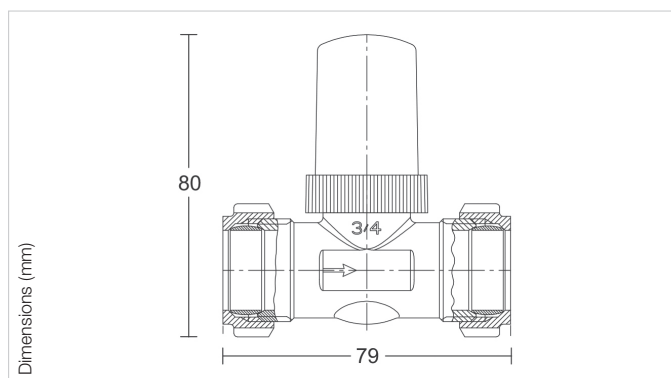
- Unique and simple adjustment mechanism
- Wide differential pressure range from 0.1 to 0.6 bar
- 22mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
- Lockable set pressure prevents inadvertent adjustment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

DU144A1001

Automatic bypass valve with set pressure scale and protective cap, with 22mm compression connections

The DU144 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



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.



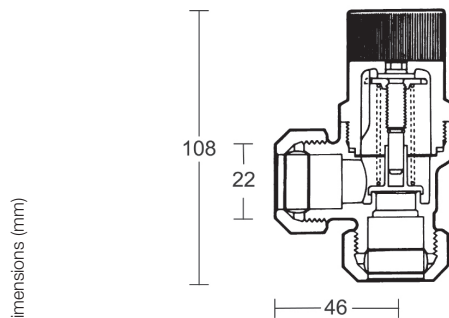
- Unique and simple adjustment mechanism
- High capacity flow - up to 50 litres per minute
- Wide differential pressure range from 0.1 to 0.6 bar
- 22mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
-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

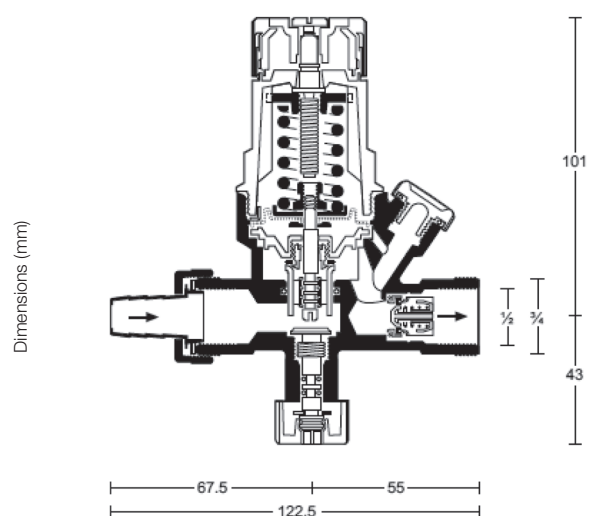
- Automatic filling
- Unique and simple adjustment mechanism
- Integral stop valve
- Integral non-return valve
- Integral strainer
- Pressure gauge tapping

Options

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

Specification

Maximum Working Pressure:	16 bar
Maximum Temperature:	70°C
Outlet Pressure:	Adjustable 0.5 - 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 - 4 Bar pressure gauge with 1/4" connection
D06FA - 1/2	Spare valve insert complete



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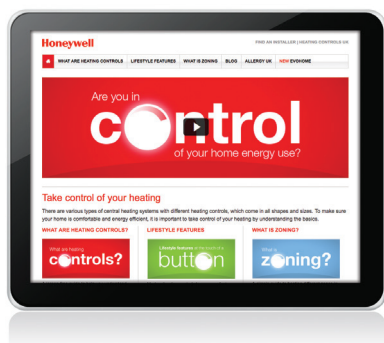
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