

1/2" Automatic Bottle Type Air Vent

Stock Code

EP12BAVC

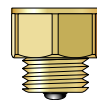
Package Type	Width cm	Height cm	List Price €
Card	12	15.5	6.80



Spring Loaded Isolation Valve for Bottle Type Air Vent

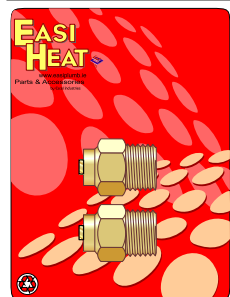
Stock Code	Size	Package Type	Width cm	Height cm
EP12SLIV	1/2"	Card	9	12

List Price € 2.52



A spring activated valve which allows the Bottle Vent to be removed without the need to drain down the system. It has a multiplicity of other uses.

Use at high points in the pipework of a heating system to remove air and expansion gases which cannot be removed through the normal venting arrangements



Brass Air Vents

Stock Code	Description	Bar Code	Package Type	Width cm	Height cm	List Price €
EP18KAV	Pack/2 x 1/8"	5 391269 623587	Card	9	12	3.30
EP14KAV	Pack/2 x 1/4"	5 391269 623594	Card	9	12	4.60
EP12KAV	Pack/2 x 1/2"	5 391269 623600	Card	9	12	4.90



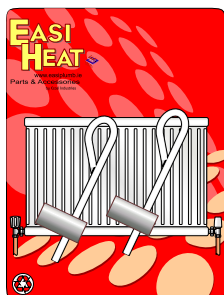
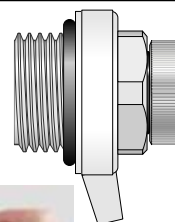
AIRless Automatic Air Vent for Radiators

Stock Code	Size
EHALESS12	1/2"

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	5.74



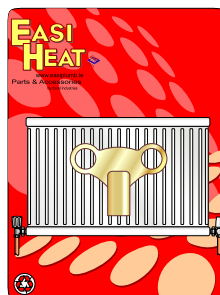
- Fits any 1/2" valve connection point at the top of the radiator
- Provides continuous and automatic radiator venting
- Max operating temperature 100°C;
- Min operating pressure 0.1 bar;
- Max operating pressure 8.5 bar.



Veba Vent Keys (Pack of 2)

Stock Code	Description
EPVVK	Pack/2 Veba Vent Key

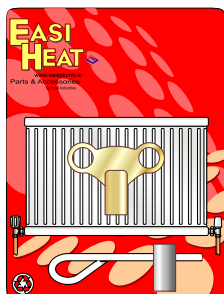
Package Type	Width cm	Height cm	List Price €
Card	9	12	3.20



Clock Type Vent Key

Stock Code	Description
EPBVK	Brass Clock Type Vent Key

Package Type	Width cm	Height cm	List Price €
Card	9	12	2.10



Vent Key Set (1 Veba & 1 Clock)

Stock Code	Description
EPRVKS	Radiator Vent Key Set

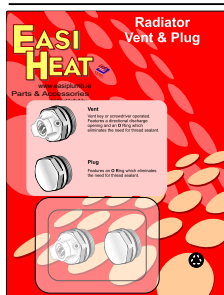
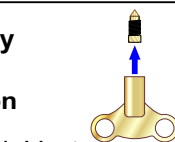
Package Type	Width cm	Height cm	List Price €
Card	9	12	3.30



5 Air Vent Pins & Vent Key

Stock Code	Description
EPVVK	Pack/5 x Air Vent Pins & Brass Key

Package Type	Width cm	Height cm	List Price €
Card	9	12	3.98



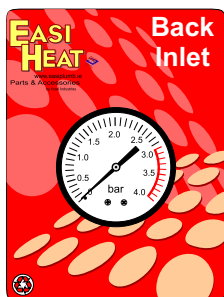
Radiator Vent & Plug - For Standard Radiators

Stock Code	Description
EPRPDRV	Radiator Vent and Plug Kit

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	6.26



Vent key or screwdriver operated. Features a directional discharge opening and an O Ring which eliminates the need for thread sealant.



1/4" Pressure Gauges

Gauges, Safety Valves & Manifolds

Stock Code

Description

Bar Code

Package Type

Width cm

Height cm

List Price €

EP14PG4

0-10 Bar Back Inlet

5 3 9 1 2 6 9 1 6 2 3 6 3 1

Card

9

12

7.90

EP14PG8

0-10 Bar Bottom Inlet

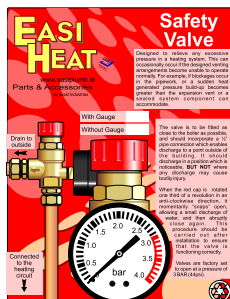
5 3 9 1 2 6 9 1 6 2 3 6 5 5

Card

9

12

7.90



Safety Valves (side outlet)

Stock Code

Description

EP12F13

1/2" 3 Bar

Package Width Height List
Type cm cm Price €
Card 12 15.5 7.00

5 3 9 1 2 6 9 1 6 2 3 5 5 6



Stock Code

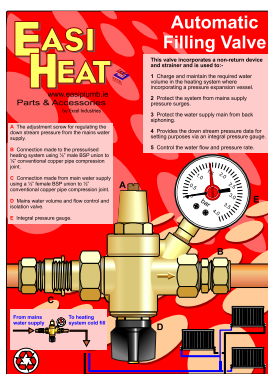
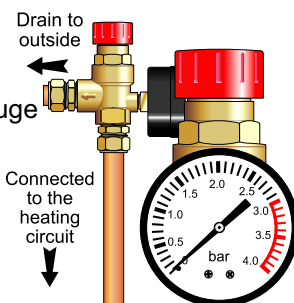
Description

EP12F23

1/2" 3 Bar with Gauge

Package Width Height List
Type cm cm Price €
Card 12 15.5 13.62

5 3 9 1 2 6 9 1 6 2 3 5 6 3



Automatic Filling Valve

Stock Code

Description

EPAFV

Automatic Filling Valve

Package Width Height List
Type cm cm Price €
Card 18 25.5 27.00

5 3 9 1 2 6 9 1 6 4 2 7 6 2

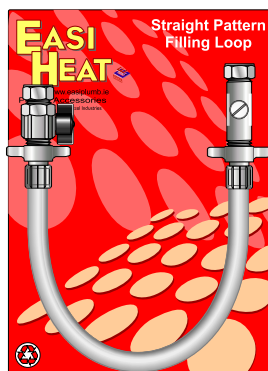
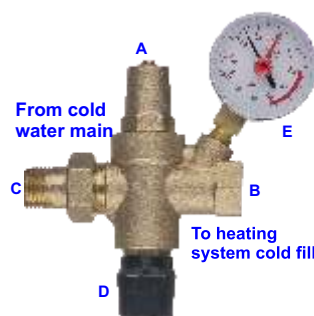
A The adjustment screw for regulating the down stream pressure from the mains water supply.

B Connection made to the pressurised heating system using 1/2" male BSP union to 1/2" conventional copper pipe compression joint.

C Connection made from main water supply using a 1/2" female BSP union to 1/2" conventional copper pipe compression joint.

D Mains water volume and flow control and isolation valve.

E Integral pressure gauge.



Manual Filling Valve - Filling Loop

Stock Code

Description

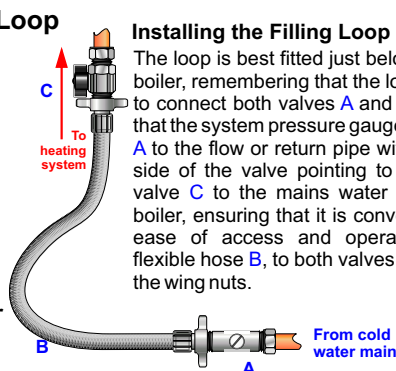
EPCFLS

Straight Pattern

Package Width Height List
Type cm cm Price €
Card 18 25.5 14.00

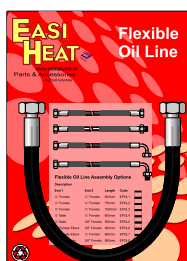
5 3 9 1 2 6 9 1 6 2 3 6 6 2

Designed to fill and supply mains water to a closed circuit heating system.



Installing the Filling Loop

The loop is best fitted just below the combination boiler, remembering that the loop **B**, must be able to connect both valves **A** and **C** together, and so that the system pressure gauge is in view. Fit valve **A** to the flow or return pipe with the arrow on the side of the valve pointing to the pipe. Connect valve **C** to the mains water supply pipe to the boiler, ensuring that it is conveniently located for ease of access and operation. Connect the flexible hose **B**, to both valves by hand tightening the wing nuts.



Flexible Oil Line 1/4" F x F

Stock Code

Length

Bar Code

EPOL1

600mm

5 3 9 1 2 6 9 1 6 2 3 7 1 6

Package Type

Width cm

Height cm

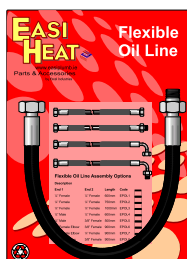
List Price €

Card

18

25.5

10.04



Flexible Oil Line 1/4" M x F

EPOL4

600mm

5 3 9 1 2 6 9 1 6 2 3 7 4 7

Card

18

25.5

10.72

EPOL5

500mm

5 3 9 1 2 6 9 1 6 2 3 7 5 4

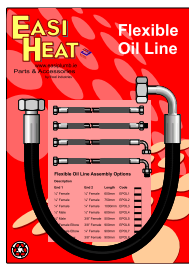
Card

18

25.5

13.88

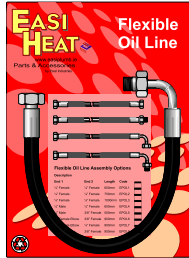




Flexible Oil Line F Elbow x F Straight



EPOL6	1/4" x 3/8" X 900mm	5 391269 623761	Card	18	25.5	14.56
EPOL7	1/4" x 1/4" X 900mm	5 391269 623778	Card	18	25.5	14.26



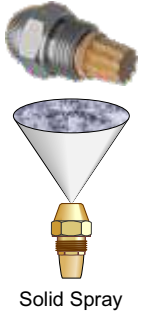
Flexible Oil Line M Elbow x F Straight



EPOL8	1/4" x 3/8" x 900mm	5 391269 623785	Card	18	25.5	14.72
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Oil Burner Nozzles with Solid Spray Angle

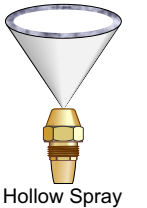
Stock Code	Description	Bar Code	Package Type	Width cm	Height cm	List Price €
EPOBN560B	.5GPH, 60	5 391269 716067	Card	12	15.5	11.00
EPOBN580B	.5GPH, 80	5 391269 716104	Card	12	15.5	11.00
EPOBN5560B	.55GPH, 60	5 391269 716074	Card	12	15.5	11.00
EPOBN5580B	.55GPH, 80	5 391269 716111	Card	12	15.5	11.00
EPOBN660B	.6GPH, 60	5 391269 716081	Card	12	15.5	11.00
EPOBN680B	.6GPH, 80	5 391269 716128	Card	12	15.5	11.00



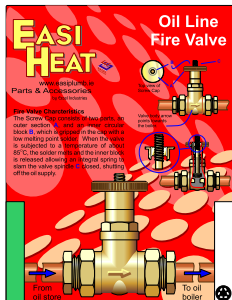
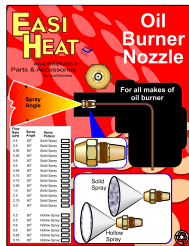
Solid Spray

Oil Burner Nozzles with Hollow Spray Angle

EPOBN560A	.5GPH, 60	5 391269 716166	Card	12	15.5	11.00
EPOBN580A	.5GPH, 80	5 391269 716180	Card	12	15.5	11.00
EPOBN660A	.6GPH, 60	5 391269 716173	Card	12	15.5	11.00
EPOBN680A	.6GPH, 80	5 391269 716197	Card	12	15.5	11.00



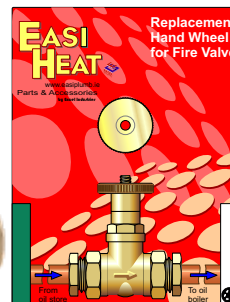
Hollow Spray



Standard Fire Valve

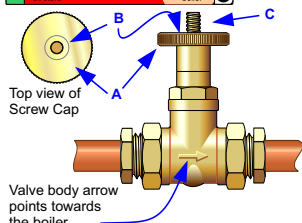
Stock Code	Package Type
EP38FV	Card

Width cm	Height cm	List Price €
12	15.5	7.00



Repl. Handwheel for Standard Fire Valve

Stock Code	5
EH38FVH	
Package Type	Width cm
Card	12
Height cm	List Price €
15.5	3.00



Top view of Screw Cap

Valve body arrow points towards the boiler.

Fire Valve Characteristics

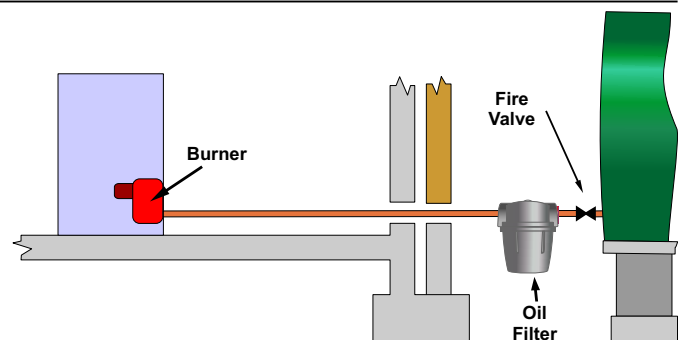
The Screw Cap consists of two parts, an outer section **A**, and an inner circular block **B**, which is gripped in the cap with a low melting point solder. When the valve is subjected to a temperature of about 85°C, the solder melts and the inner block is released allowing an integral spring to slam the valve spindle **C** closed, shutting off the oil supply.



Aluminium Oil Filter

Stock Code	Package Type
EP380FA	Card

Width cm	Height cm	List Price €
12	15.5	7.90

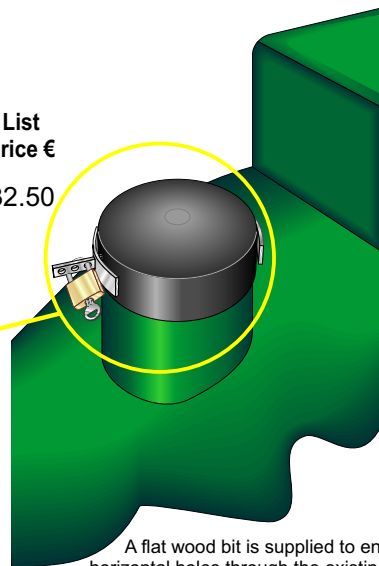
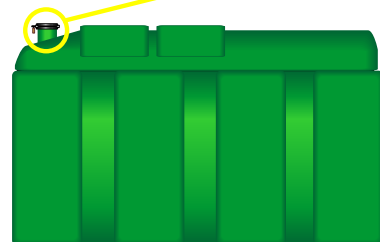


Stainless Steel Oil Tank Security Lock

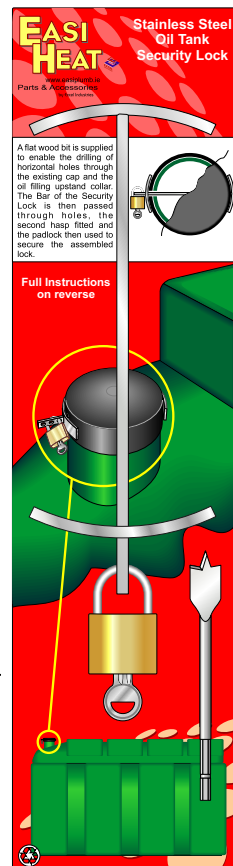
Stock Code **Description**

EHOTL Oil Tank Security lock

Package Type	Width cm	Height cm	List Price €
Card	12	45	32.50



A flat wood bit is supplied to enable the drilling of horizontal holes through the existing cap and the oil filling upstand collar. The Bar of the Security Lock is then passed through holes, the second hasp fitted and the padlock then used to secure the assembled lock.



Clock Type Oil Tank Gauge

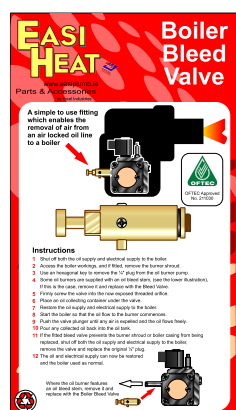
Stock Code **Description**

EPOTG Clock Type Oil Tank Gauge

Package Type	Width cm	Height cm	List Price €
Card	18	25.5	23.50

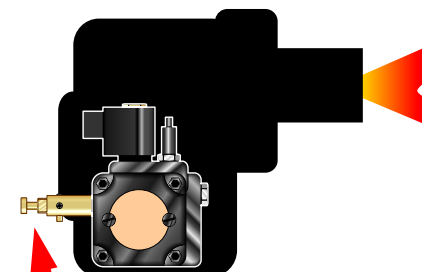


Boiler Bleed Valve



Instructions

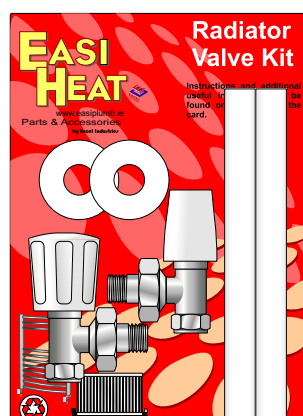
- 1 Shut off both the oil supply and electrical supply to the boiler.
- 2 Access the boiler workings, and if fitted, remove the burner shroud.
- 3 Use an hexagonal key to remove the 1/4" plug from the oil burner pump.
- 4 Some oil burners are supplied with an oil bleed stem, (see the lower illustration), If this is the case, remove it and replace with the Bleed Valve.
- 5 Firmly screw the valve into the now exposed threaded orifice.
- 6 Place an oil collecting container under the valve.
- 7 Restore the oil supply and electrical supply to the boiler.
- 8 Start the boiler so that the oil flow to the burner commences.
- 9 Push the valve plunger until any air is expelled and the oil flows freely.
- 10 Pour any collected oil back into the oil tank.
- 11 If the fitted bleed valve prevents the burner shroud or boiler casing from being replaced, shut off both the oil supply and electrical supply to the boiler, remove the valve and replace the original 1/4" plug.
- 12 The oil and electrical supply can now be restored and the boiler used as normal.



A simple to use fitting which enables the removal of air from an air locked oil line to a boiler



Stock Code	Package Type	Width cm	Height cm	List Price €
EPBBV	Card	12	21	21.50



Angle Pattern Standard Compression

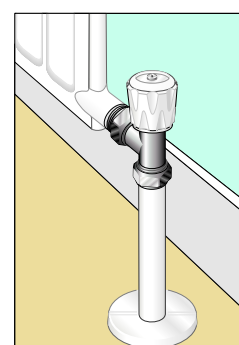
Stock Code **Description**

EPRV400 Angle Pattern Standard 1/2" Compression Kit

Package Type	Width cm	Height cm	List Price €
Card	18	25.5	14.66



Radiator Valves & Accessories

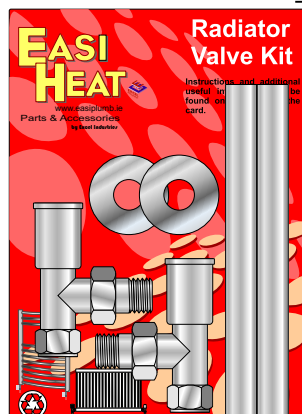
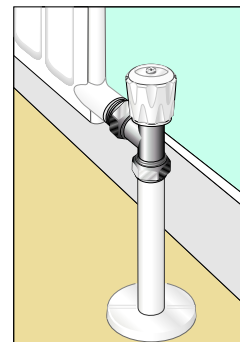




Angle Pattern Standard Female Iron

Stock Code	Description
EP12FIRV	Angle Pattern Standard 1/2" Female Iron Kit

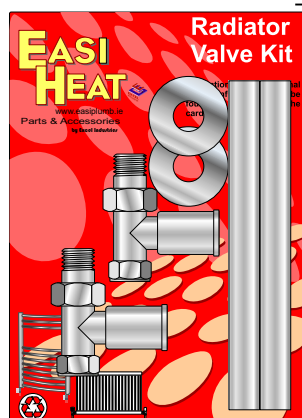
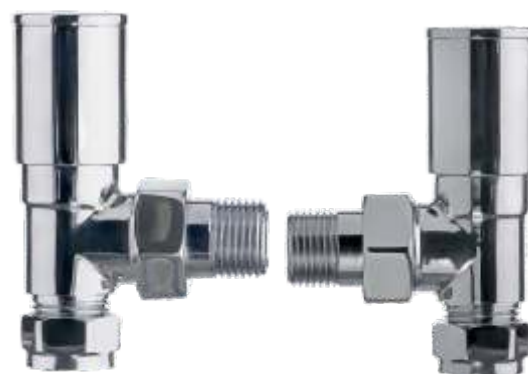
Package Type	Width cm	Height cm	List Price €
Card	18	25.5	15.84



Angle Pattern Towel Rail Chrome Plated

Stock Code	Description
EPRV100AP	Angle Pattern Towel Rail Chrome Plated Kit

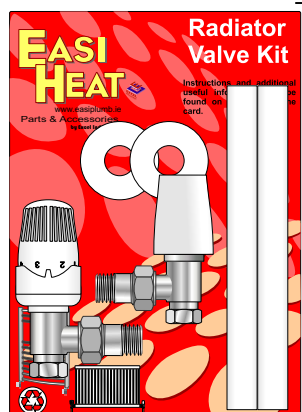
Package Type	Width cm	Height cm	List Price €
Card	18	25.5	29.90



Straight Pattern Towel Rail Chrome Plated

Stock Code	Description
EPRV100SP	Straight Pattern Towel Rail Chrome Plated Kit

Package Type	Width cm	Height cm	List Price €
Card	18	25.5	29.90



Angle Pattern Thermostatic Radiator Valve Kit

Stock Code	Description
EP15TRV1	Angle Pattern Thermostatic Kit

Package Type	Width cm	Height cm	List Price €
Card	18	25.5	25.00



Angle Pattern Thermostatic Radiator Valve Only

Stock Code	Description
EHTRV1	Angle Pattern Thermostatic Valve

Package Type	Width cm	Height cm	List Price €
Card	18	25.5	17.82



1/2" WheelHead Radiator Valve Only

Stock Code	Description
EH12WHRV	1/2" WheelHead Radiator Valve

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	5.76



1/2" LockShield Radiator Valve Only

Stock Code	Description
EH12LSRV	1/2" LockShield Radiator Valve

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	5.76





Replacement Thermostatic Valve Head Only
Stock Code
 EHTRH
Description
 Replacement Thermostatic Valve Head

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	10.50



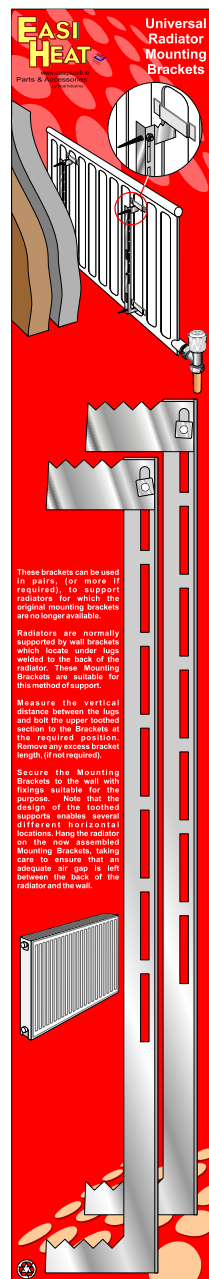
1/2" Radiator Valve Tail with 3/4" Lock Nut
Stock Code
 EH12RVT34
Description
 1/2" Radiator Valve Tail with 3/4" Lock Nut

Package Type	Width cm	Height cm	List Price €
Card	9	12	4.38



1/2" Radiator Valve Tail with 1/2" Comp. Nut & Olive
Stock Code
 EH12RVT12
Description
 1/2" Radiator Valve Tail with 1/2" Comp. Nut & Olive

Package Type	Width cm	Height cm	List Price €
Card	9	12	5.28



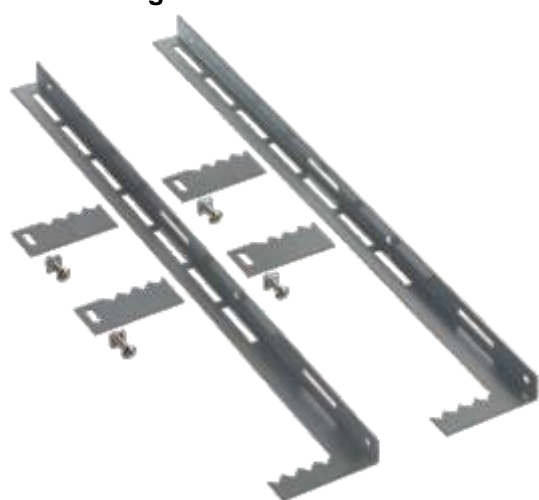
Universal Radiator Mounting Brackets

Stock Code
 EPURB
Description
 Pair Mounting Brackets

Package Type	Width cm	Height cm	List Price €
Card	18	75	11.50



These brackets can be used in pairs, (or more if required), to support radiators for which the original mounting brackets are no longer available.



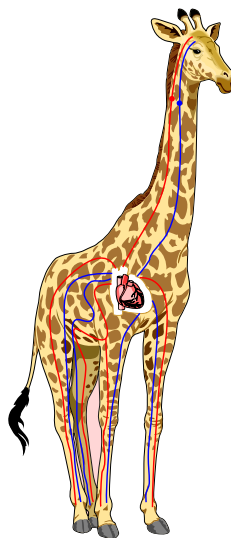
Radiator Vent & Plug - For Standard Radiators

Stock Code
 EPRDRV
Description
 Radiator Vent and Plug Kit

Package Type	Width cm	Height cm	List Price €
Card	12	15.5	6.26



Vent key or screwdriver operated. Features a directional discharge opening and an O Ring which eliminates the need for thread sealant.



Balancing a radiator central heating system

In the same way the arteries, veins and capillaries have a large range of sizes to allow the heart to "balance" the flow of blood to all parts of your body, so a central heating system needs to be designed and "balanced" to enable pump to evenly distribute the hot water flow to all of the radiators. The physical process is governed by the laws of "fluid mechanics", something which nature worked out long before there were any plumbers or heating engineers about! For instance, a giraffe has "balancing" valves in the blood supply vessels in its neck. Without such "controls", the heart, (which is extra large in a giraffe to enable the blood to be pumped up such a long neck), would create excessive pressure in the blood supply to the brain when the animal stooped to drink. Similarly when the giraffe returns to an upright position, those same "valves" quickly sense the movement and re-balance the pumping process. Without such fine tuning of the circulation process, the animal would have severe problems. By comparison to the heart's options, the range of pipe diameters available for use with a radiator system is very limited. Which means that standard pipe sizes, radiator valves and the pump speed setting must be used in combination, to ensure that all the radiators are evenly heated or "balanced". That's why there are usually two valves on a radiator. They are not just there to make it easier to remove the radiator for decoration purposes! One valve is used to annually or thermostatically turn the radiator on and off, and the other, called the Radiator Lock Shield Valve (LSV), is adjusted to control the amount of water which passes through the radiator, - the "balancing" valve. As not all radiators can be the same distance from the pump, and the pipe diameters are limited to usually 1/2", 3/4" and 1", (15, 22 and 28mm), the LSV valve settings are very important and need continuous and careful adjustment to suit each radiator on the heating circuit whilst the system is being "balanced". In some cases, just turning the LSV on one radiator a quarter turn open will be all that is needed - opened any further and the water may use that radiator to find the easiest return route in the "circuit", and the water will not flow to the next radiator.

Figure 1

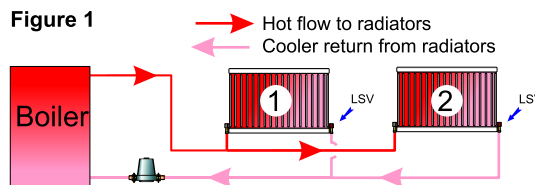
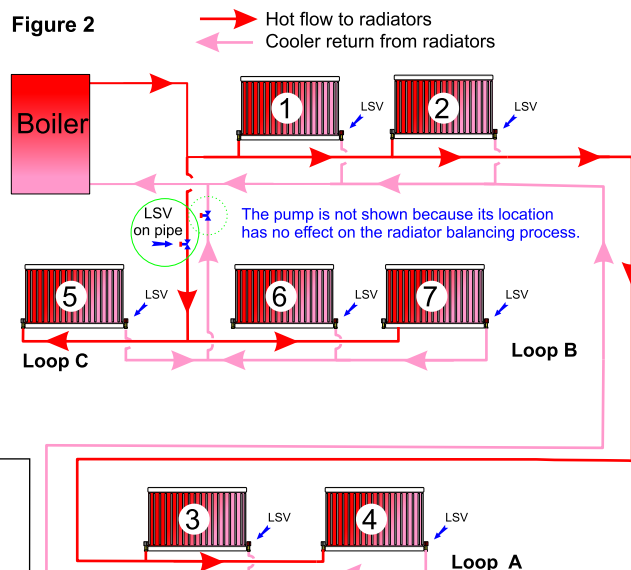


Figure 2



The balancing process is not difficult. It just needs a knowledge of the pipe and radiator circuitry. Sketch out a layout of the system and the balancing process will become much easier to understand and apply. **Providing the system has been correctly designed,** a little thought, time and patience is all that is needed.

Protex Central Heating System Additives



Stock Code	Description		
EP1LPI	Inhibitor		
Package Type	Width cm	Height cm	List Price €
Bottle	13	19	15.76
5 3 9 1 2 6 9 6 4 4 5 3 7			

Protex Inhibitor gives extended protection against corrosion, scale build up, boiler noise and helps prevent microbial growth when introduced to a thoroughly cleaned system. It is suitable for all mixed metal systems including those containing aluminium elements. 1 Litre is sufficient to protect a typical domestic heating system of up to 100 Litre capacity.



Stock Code	Description		
EP1LPD	De-Scaler		
Package Type	Width cm	Height cm	List Price €
Bottle	13	19	15.76
5 3 9 1 2 6 9 6 4 4 5 4 4			

Protex De-Scaler is designed to effectively dissolve the lime scale build up that accumulates on the hottest internal parts of a central heating system. It is suitable for all indirect central heating systems including those containing aluminium.



Stock Code	Description		
EP1LPL	Leaksealant		
Package Type	Width cm	Height cm	List Price €
Bottle	13	19	15.76
5 3 9 1 2 6 9 6 4 4 5 6 8			

Protex Leaksealant is ideal for resolving small pin-hole leaks in radiators and weeping inaccessible joints. It mixes and disperses easily when added to the system water and will not cause internal blockages or trap valves and pumps.



Stock Code	Description		
EP1LPU	Universal Cleanser		
Package Type	Width cm	Height cm	List Price €
Bottle	13	19	15.76
5 3 9 1 2 6 9 6 4 4 5 5 1			

Protex Universal Cleanser is an excellent pre-commissioning cleanser for new or modified systems due to its effective removal of all flux residues. It may also be used to flush, de-sludge and de-scale an existing system prior to modification or extension.

Introduction

Pipe freezing is a fast, clean and efficient means of carrying out Plumbing repairs and alterations to existing pipe work. It eliminates the need to isolate and drain down the entire system. It can be carried out on Copper, Metal and Pex pipe systems. It facilitates immediate extensions and alterations to pipe work, where, for example the addition of a new appliance or central heating radiator is required. This kit provides all the items required to form an internal ice plug in a pipe up to 1"/28mm in diameter. Once formed, the plug which can withstand high pressure, (up to 3 bar), causes a temporary interruption to the flow of water thereby acting as a valve. It will remain for approximately 30 to 40 minutes providing adequate time for the work to be carried out. See back of box for more details about freezing times.

How it Works

Pipe freezing works on the action of the evaporation of a chemical called Tetrafluoroethane (C₂H₂F₄) which when introduced into an insulating jacket around a water carrying pipe extracts the heat from it (both pipe and water) to form an ice plug inside. When using the aerosol spray (containing the above mentioned chemical) the evaporation is directly into the atmosphere through the jacket. As the process is carried out the chemical is lost. Anti Freeze or corrosion inhibitors circulating inside central heating systems will have a bearing on the time it takes to freeze a pipe and more chemical will be required to be injected into the insulating jacket. Additionally, high ambient temperature will also have an affect and again, will require an extra dose.

CH System Additives & Dosing Tools

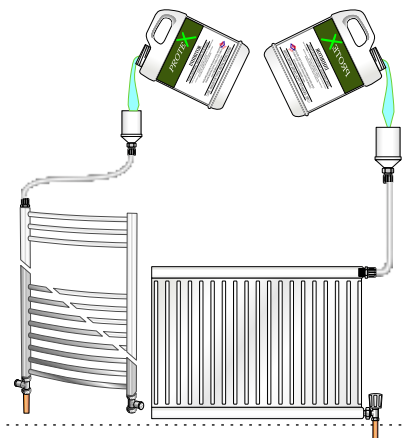
Benefits of using Protex Central Heating System Additives

- Reduces the need for frequent radiator venting.
- Improves the efficiency and heat transfer qualities of a heating system by reducing deposits of scale and sludge
- Minimises maintenance costs by neutralising the corrosion effects and cross contamination from dissimilar metals used within heating systems.
- Prolongs the life of the system by protecting against corrosion and the build up of lime scale.
- Eliminates boiler "kettling" noise caused by scale build up and improves flow.
- Optimises fuel usage and therefore reduces costs and CO₂ emissions.



Central Heating Remote Chemical Additive Dosing Funnel

Stock Code	Description		
EHRDF	Central Heating Remote Chemical Additive Dosing Funnel		
Package Type	Width cm	Height cm	List Price €
Card	12	45	10.48
5 3 9 1 2 6 9 7 6 2 1 5 6			



Easi Freeze

Stock Code	Description		
EF410	for pipes up to 1"/28mm		
Package Type	Width cm	Height cm	List Price €
Box	18	25.5	47.24
5 3 9 1 2 6 9 7 1 4 9 0 2			

