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Introduction

This catalogue features the exclusive Brownall range of Automatic Air Eliminator products. All manufactured in non-dezincifiable body materials, resistant to fungal growth.

Automatic Air Eliminators covering low, medium & high pressure applications suitable for use with water, aviation fuel, diesel & light oils.

Three-way vent valves, offering efficient performance, reliable service combined with potential savings in time & cost by simplifying the venting system for single/multi boiler or calorifier installations, complimented by vent cocks are also available upon request.

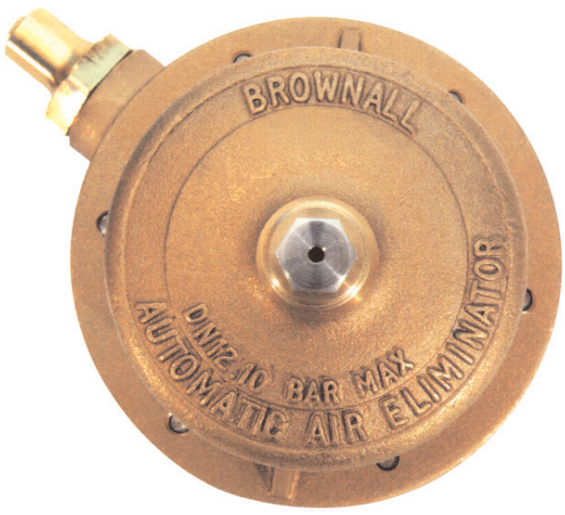
Air Separation saves the System!

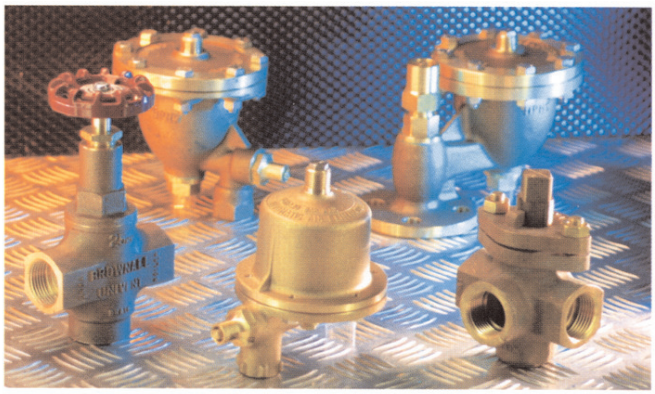
Air in a central heating system leads to reduced heat emission and has harmful consequences for the installation as a whole - particularly the pump, which is often the first component to suffer. Air is the enemy of the pump and leads to a noisy installation, loss of performance,corrosion and premature failure. With the installation of good venting equipment these problems can be alleviated.

The Importance of a Clean System

Dirt or other foreign matter can cause problems, reducing the efficiency of a system, particularly when applied to air elimination. It is therefore recommended that prior to the installation of automatic air eliminators the system is thoroughly flushed. In addition, a pipeline strainer should be installed immediately before the inlet to the AAE.

It is recommended that discharge pipe work should always be fitted to the outlet of the valves to allow for venting & water carry-over.





Selection of the most Suitable Automatic Air Eliminator

With several types of air eliminator available, product evaluation relating to system requirements is essential. With this in mind, the following factors should be taken into consideration:-

- **System Parameters:**
  Select the correct type, ensuring that the pressure & temperature rating meet the requirement of the system.
- **Materials of Construction:**
  Quality of manufacture & materials used in construction are critical. Corrosion and clogging of valve mechanisms is a potential problem if incorrect materials are used.
- **Reliability:**
  An automatic valve, usually operating in an inaccessible roof space or system header, must be capable of long term trouble free operation.

With proven reliability extending over many years the Brownall range of Automatic Air Eliminators meets the above criteria and is number one choice with professional building services consulting engineers and specifying authorities.

The Brownall guide to Air Elimination in Fluid Systems is available on request.

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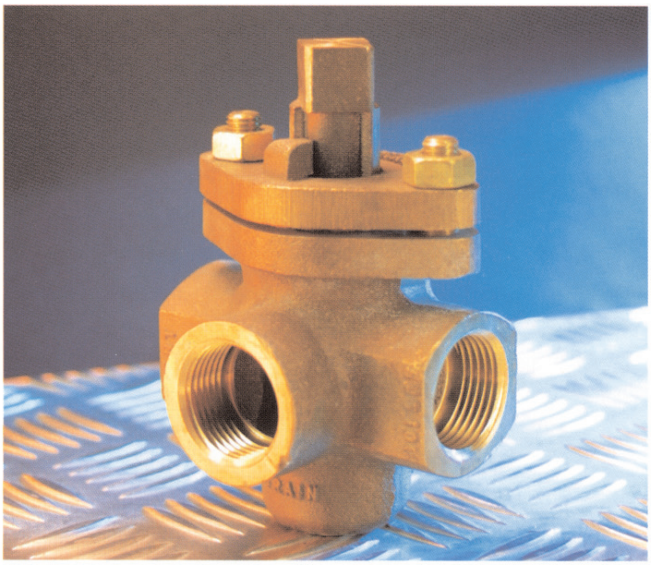


Three-way Vent Cocks Fig.1988

A three-way vent cock made from non-dezincifiable body material for use on single or multi-boiler, or calorifier installations. The design of the cock ensures that when fitted in accordance with the manufacturer's recommendations, there is always a direct connection from the boiler or calorifier to atmosphere.

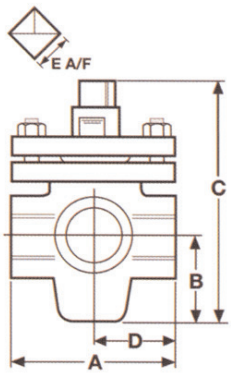
The construction of the 1988 valve allows in-line servicing, without disturbing the pipework.

Specification

Pressure rating:	7bar at 93°C (100 lbf/in² at 200°F)
Temp. Rating:	93°C (200°F) maximum
Body and Plug Material:	Gunmetal to BS 1400 LG2

Vent Cock levers are available as an optional extra.

Size	Product Code
25mm (1")	VC-LA-025
32mm (1¼")	VC-LB-032
40mm (1½")	VC-LC-040
50mm (2")	VC-LD-050



Nominal Size	Product Code	A	B	C	D	E A/F
25mm(1")	VCN-1988-025	90	43	132	45	18
32mm(1¼")	VCN-1988-032	122	48	155	56	20
40mm(1½")	VCN-1988-040	143	57	177	68	25
50mm(2")	VCN-1988-050	165	66	204	80	36

Typical Multi-Boiler System Incorporating Brownall Univents/Vent Cocks Fig.1688/1988

The use of screw-down valves for multi-boiler hot water installations can enable the use of a single vent pipe to serve any number of boilers. No boiler in the system can be left in an unvented condition irrespective of the selected settings of the valves. At all times the vent valve ensures a full bore exit from the boiler to atmosphere.

In operation, clockwise turning of the handwheel closes the drain and opens the vent. Anti-clockwise rotation of the handwheel opens the drain and closes the vent.

Note: The diagram shown is schematic and is not intended as a guide to the installation of the vent valves. It is essential that vent valves are fitted in accordance with the manufacturer's recommendations and comply with Health and Safety regulations etc.