



TI-P017-02
CMGT Issue 12

AE36 and AE36A Automatic Air Eliminators/ Air Vents for Liquid Systems

Description

The AE36 range of automatic air eliminators/air vents is designed for use on hot and cold water installations. The body and cap are of austenitic stainless steel type 316L. It is available as a standard air vent designated AE36, with check valve the designation becomes AE36A.

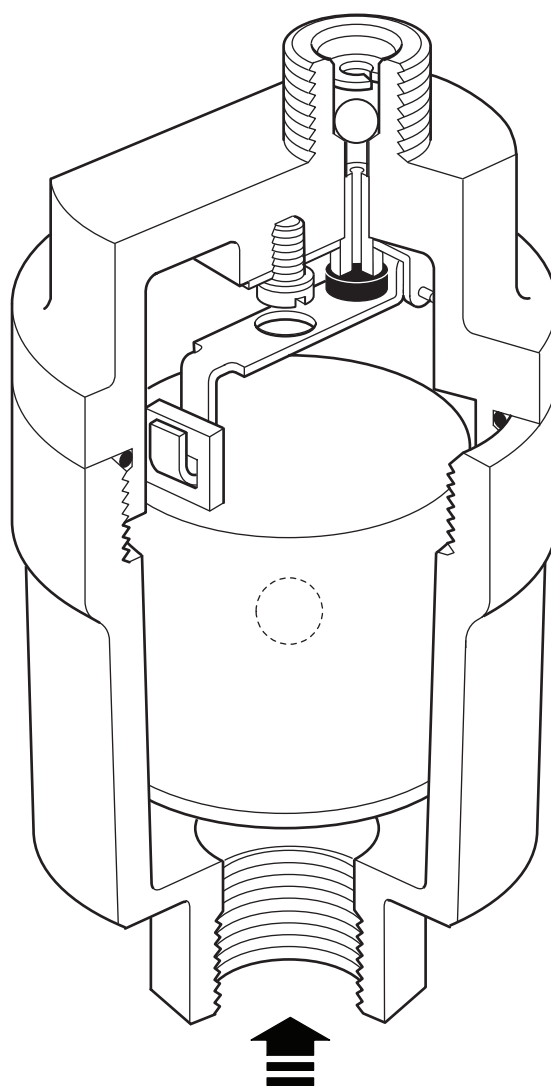
Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Certification

This product is available with Manufacturers' Typical Test Report.

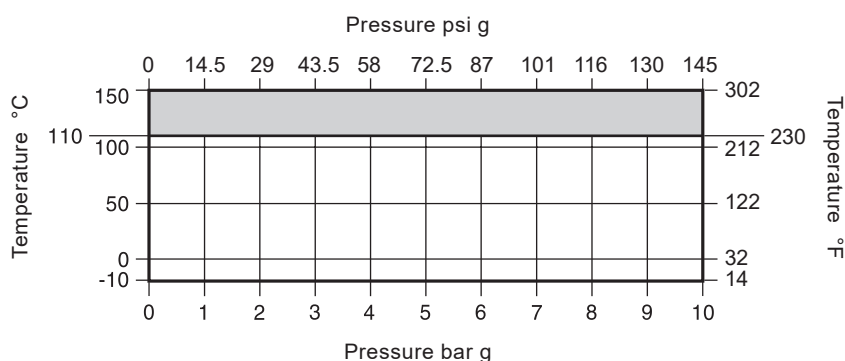
Note: All certification/inspection requirements must be stated at the time of order placement.



Sizes and pipe connections

Inlet	½" female	BSP or NPT
Outlet	¼" male	BSP or NPT

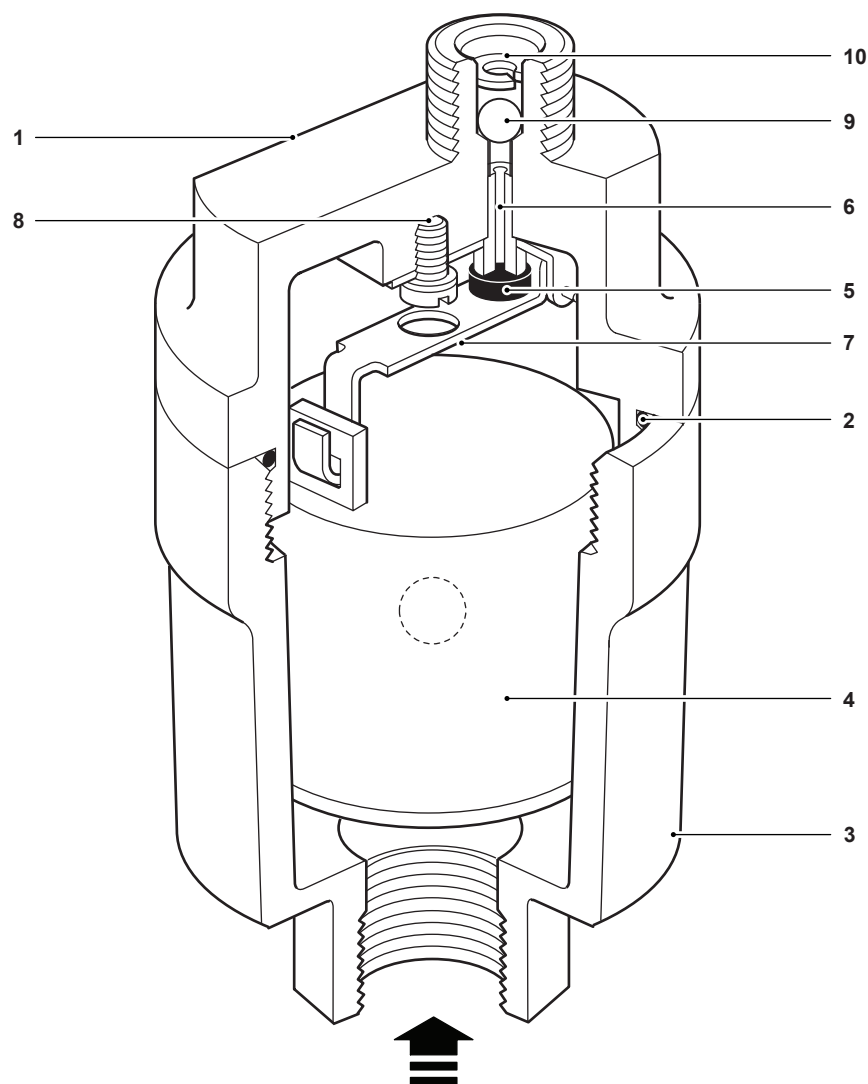
Pressure/temperature limits



The product **must not** be used in this region.

Body design conditions		PN10	
PMA	Maximum allowable pressure	10 bar g @ 150 °C	145 psi g @ 302 °F
TMA	Maximum allowable temperature	150 °C @ 10 bar g	302 °F @ 145 psi g
Minimum allowable temperature		-10 °C	14 °F
PMO	Maximum operating pressure	10 bar g @ 110 °C	145 psi g @ 230 °F
TMO	Maximum operating temperature	110 °C @ 10 bar g	230 °F @ 145 psi g
Minimum operating temperature		-10 °C	14 °F
ΔPMX	Maximum differential pressure	8 bar g	116 psi g
Designed for a maximum cold hydraulic test pressure of:		15 bar g	218 psi g
Minimum specific gravity of liquid		0.926	

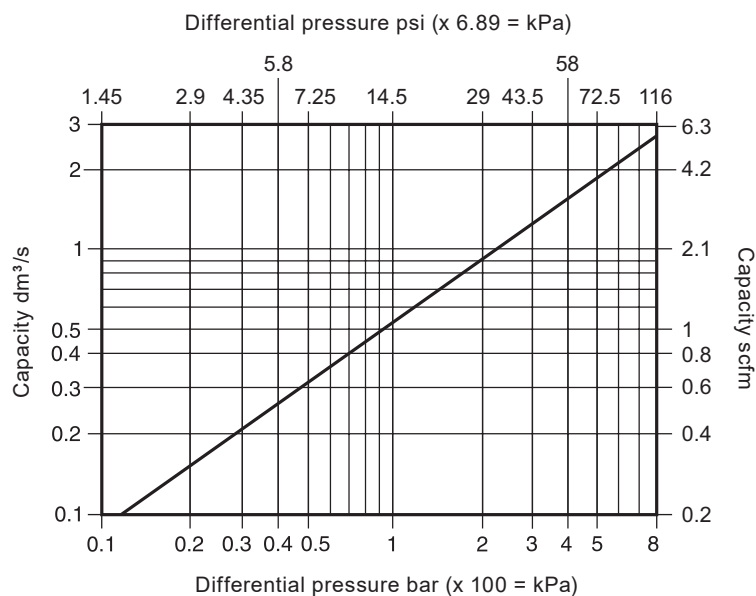
Materials



No.	Description	Material	
1	Cap	Austenitic stainless steel type 316L	ASTM A351 CF3M
2	Cap 'O' ring	Green Viton 75	
3	Body	Austenitic stainless steel type 316L	ASTM A351 CF3M
4	Float	Acetal co hostaform/stainless steel	
5	Valve head	EPDM	
6	Valve seat	Stainless steel	BS 970 431 S29
7	Bracket/lever assembly	Stainless steel	BS 1449 304 S11
8	Screw	Stainless steel	BS 4183 18/8
9	Check valve ball (AE36A only)	Stainless steel	AISI 440 B
10	Circlip	Stainless steel	BS 970 302 S25

Free discharge capacity

For air at 16 °C



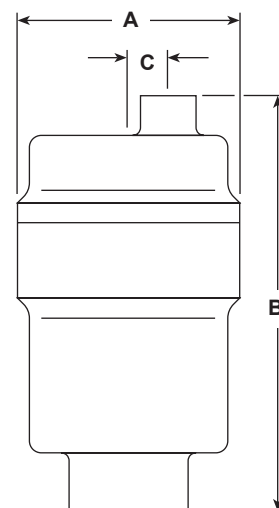
If the temperature of the air differs from 16 °C, the discharge capacity from the graph can be corrected by multiplying it by the following equation:

$$\frac{289}{273 + T} \quad (T \text{ is the actual temperature in } ^\circ\text{C})$$

It may be assumed that the temperature of the air is equal to the temperature of the water.

Dimensions/weight (approximate) in mm (inches) and kg (lbs)

Version	A	B	C	Weight
AE36	56	105	10	0.7
AE36A	(2.20)	(4.13)	(0.39)	(1.54)



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P017-03) supplied with the product.

Installation note:

The automatic air eliminator/air vent should be installed vertically with the inlet at the bottom. We recommend piping the discharge from the air eliminator/air vent to a suitable drain point.

How to order

Example: 1 off Spirax Sarco ½" AE36A automatic air eliminator/air vent with check valve having screwed BSP connections.

Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

Maintenance kit comprising:

Valve cone, float, cap 'O' ring, check valve ball and check valve circlip

2, 4, 5, 9, 10

Important note

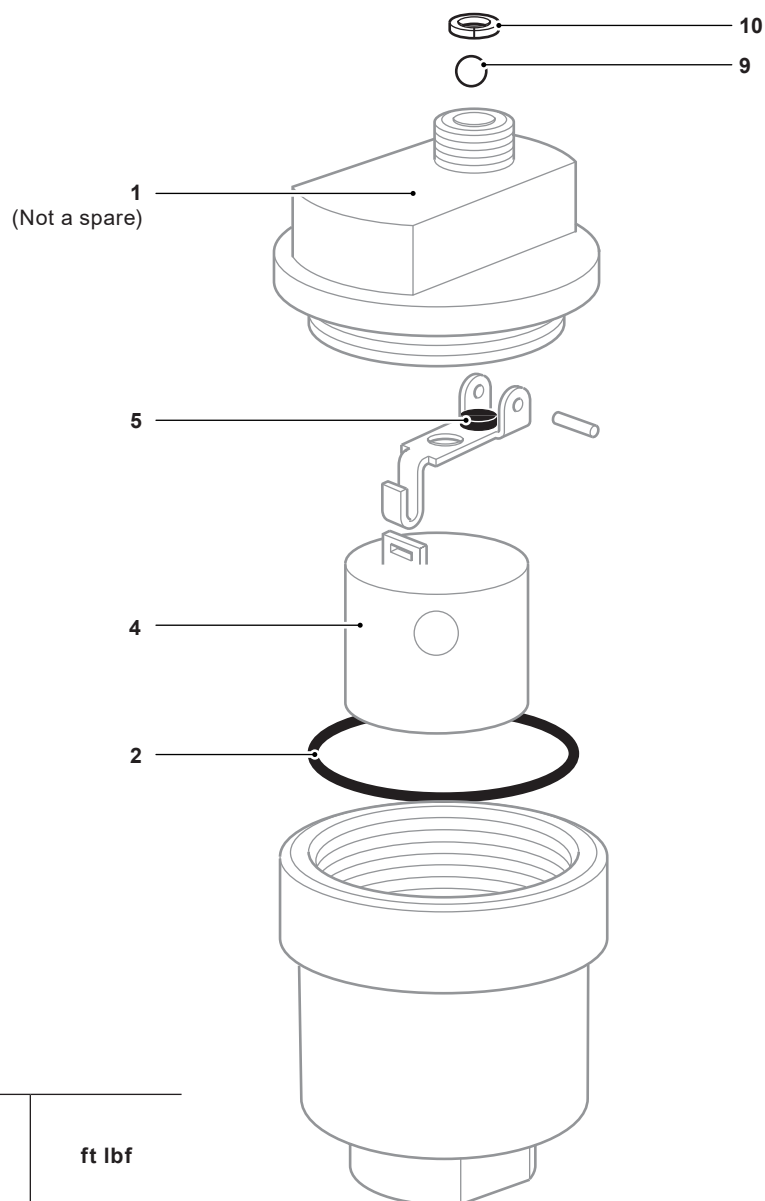
If you have earlier versions of the AE36 designated AE36CV which operate over the range 3 - 8 bar (43.5 - 116 psi g) then the spares set for the AE36A can not be used.

Spares for the AE36CV are no longer available.



How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of automatic air eliminator/air vent.

Example: 1 - Maintenance kit for a Spirax Sarco ½" AE36A automatic air eliminator/air vent with check valve.



Recommended tightening torques

Item	 or mm		N m	ft lbf
1	30		10 - 12	7 - 9
8	Cheesehead	M4 x 6	2.5 - 2.8	1.8 - 2.0