



TI-P017-02  
ST Issue 8

## 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 97/23/EC.

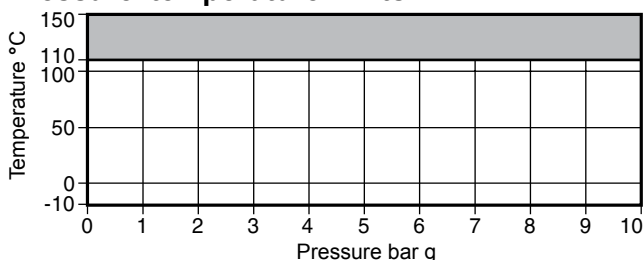
### Certification

This product is available with certification to EN 10204 3.1.  
**Note:** All certification/inspection requirements must be stated at the time of order placement.

### Sizes and pipe connections

|               |           |            |
|---------------|-----------|------------|
| <b>Inlet</b>  | ½" female | BSP or NPT |
| <b>Outlet</b> | ¼" male   | BSP or NPT |

### Pressure/temperature limits

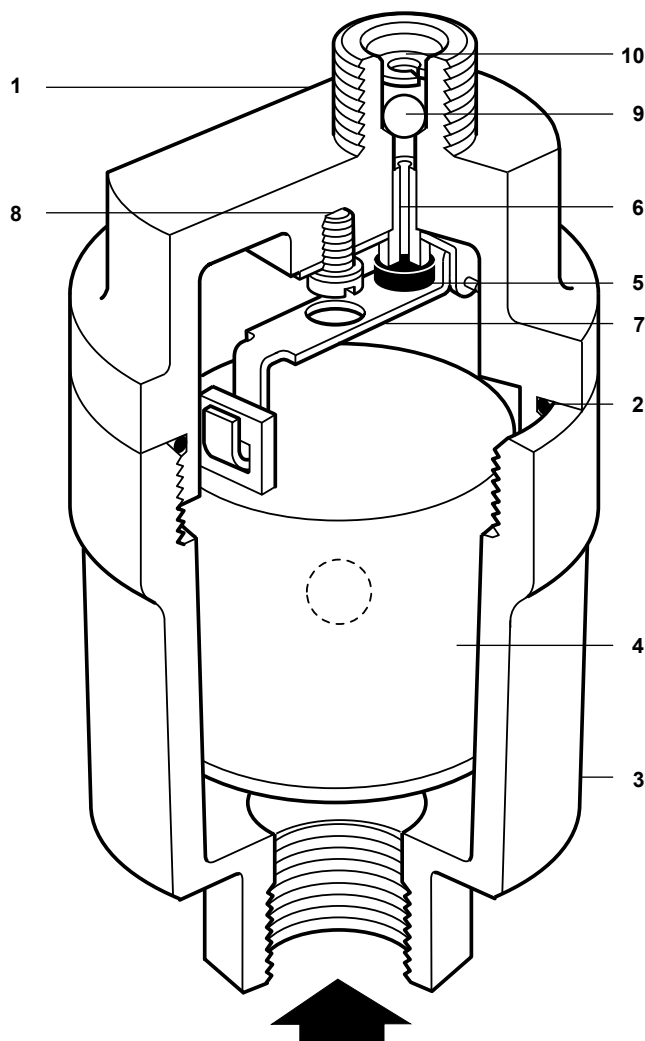


The product **should not** be used in this region as damage to the internals may occur.

|   |                               |                  |
|---|-------------------------------|------------------|
| Body design conditions  |                               | PN10             |
| PMA   | Maximum allowable pressure    | 10 bar g @ 150°C |
| TMA   | Maximum allowable temperature | 150°C @ 10 bar g |
| Minimum allowable temperature                                   |                               | -10°C            |
| PMO   | Maximum operating pressure    | 10 bar g @ 110°C |
| TMO   | Maximum operating temperature | 110°C @ 10 bar g |
| Minimum operating temperature                                   |                               | -10°C            |
| ΔPMX  | Maximum differential pressure | 8 bar g          |
| Designed for a maximum cold hydraulic test pressure of 15 bar g |                               |                  |
| Minimum specific gravity of liquid                              |                               | 0.926            |

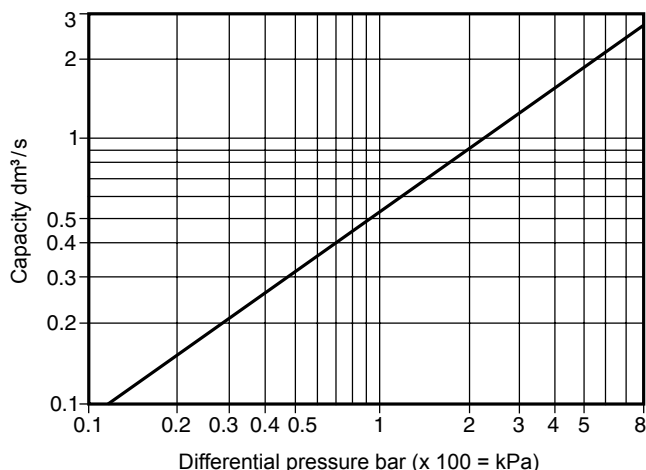
### Materials

| No. | Description                   | Material  |
|-----|-------------------------------|---|
| 1   | Cap                           | Austenitic stainless ASTM A351 CF3M steel type 316L |
| 2   | Cap 'O' ring                  | Green Viton 75                                      |
| 3   | Body                          | Austenitic stainless ASTM A351 CF3M steel type 316L |
| 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



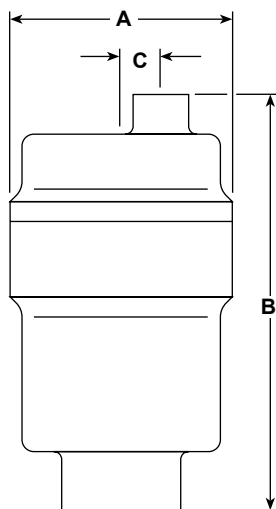
If the temperature of the air differs from 16°C, the discharge capacity from the graph can be corrected by multiplying it by the following equation:

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

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

## Dimensions/weight (approximate) in mm and kg

| Version | A  | B   | C  | Weight |
|---------|----|-----|----|--------|
| AE36    | 56 | 105 | 10 | 0.7    |
| AE36A   | 56 | 105 | 10 | 0.7    |



## Spare parts

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

### Available spares

Maintenance kit comprising: **2, 4, 5, 9, 10**  
Valve cone, float, cap 'O' ring, check valve ball and check valve circlip

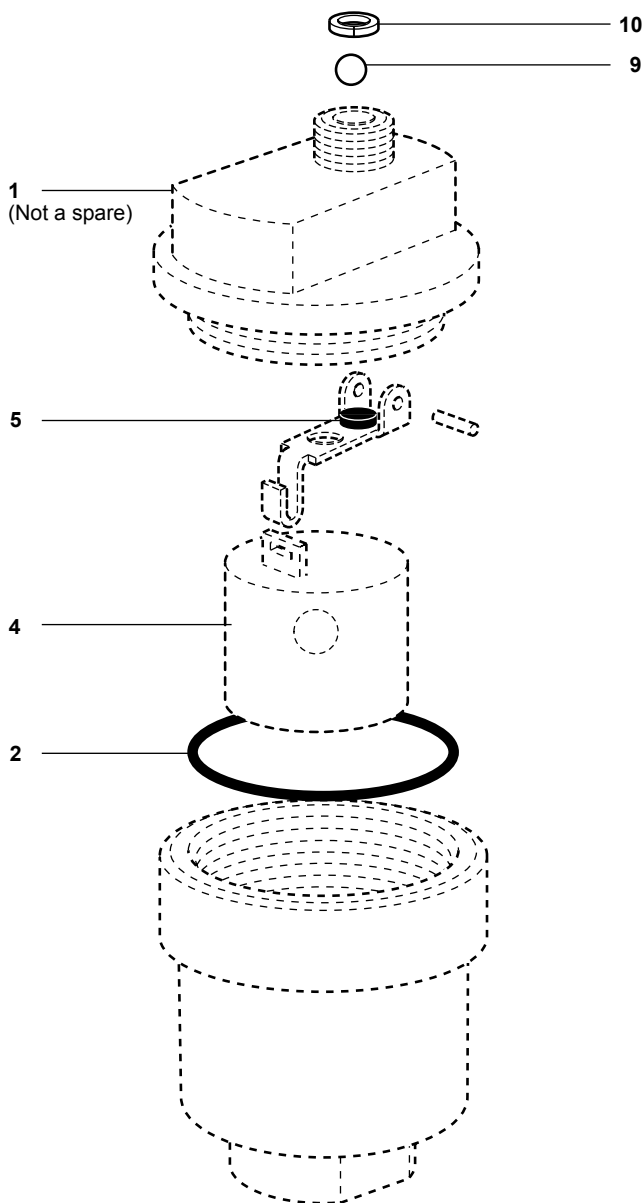
### Important note

If you have earlier versions of the AE36 designated AE36CV which operate over the range 3 - 8 bar then the spares set for the AE36A can not be used. The earlier spares set should be used.

### 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 1/2" AE36A automatic air eliminator / air vent with check valve.



## 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 1/2" AE36A automatic air eliminator/air vent with check valve having screwed BSP connections.

## Recommended tightening torques

| Item |  or  | N m       |
|------|---|-----------|
| 1    | 30  | 10 - 12   |
| 8    | Cheesehead M4 x 6   | 2.5 - 2.8 |