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INSTALLATION AND OPERATING INSTRUCTIONS

# Vortex Air Separator Models VA/VAS <br> Sizes: 2", 2.5" \& 3" - Cast Iron 

## VESSEL DESCRIPTION

Armstrong VA/VAS Vortex Air Separators eliminate air quickly and efficiently from heating/cooling systems. Water enters and exits through unique "tangential" connections which promote a low velocity swirling effect in the centre of the unit. Centrifugal force moves the water to the outer edges of the unit and a vortex is formed. Entrained air migrates to the eye of the vortex (lower pressure point) and is evacuated at the top of the separator. The water exits the unit near the bottom of the unit, bubble free, protecting the system against the noise, corrosion and damage associated with entrained air.

VAS models are equipped with a stainless steel strainer.


CONSTRUCTION DETAILS
MATERIALS OF CONSTRUCTION

| Shell | Cast Iron |
| :--- | :--- |
| Strainer | Stainless Steel Mesh $\left(1 / 4^{\prime \prime} \times 3 / 4 "\right)$ |
| Gasket | Non-Asbestos |


| TECHNICAL DATA |  |
| :--- | :--- |
| Max. Working Temperature | $350^{\circ} \mathrm{F}\left(176^{\circ} \mathrm{C}\right)$ |
| Max. Working Pressure | $160 \mathrm{psi}(1105 \mathrm{kPa})$ |
| Connection Type | Threaded NPT |

## STEPS \& PROCEDURE

- Visually inspect the air separator for damage, which may occur during transit.
- A manual drain can be added to help facilitate purging sediment from the air separator.
- VAS Models have a strainer that must be removed and cleaned after 24 hours of operation.

| DISTANCE REQUIRED TO <br> REMOVE STRAINER |  |
| :--- | :--- |
| Size | Distance |
| 2.0 VAS | $7.0 \mathrm{in} .(178 \mathrm{~mm})$ |
| 2.5 VAS | $8.0 \mathrm{in} .(203 \mathrm{~mm})$ |
| 3.0 VAS | $8.0 \mathrm{in} .(203 \mathrm{~mm})$ |

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