ARMSTRONG

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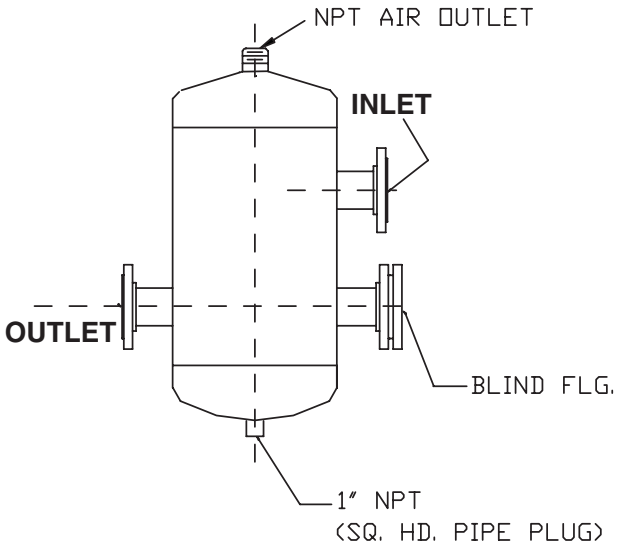
INSTALLATION AND OPERATING INSTRUCTIONS

Vortex Air Separator
Models VA/VAS

Sizes: 4" to 6" – Cast Iron, 8" to 12" – Fabricated C. Steel



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 steel strainer.

CONSTRUCTION DETAILS

MATERIALS OF CONSTRUCTION	
Shell	Cast Iron (4" to 6") Fabricated Steel (8" to 12")
Strainer	Steel Mesh (¼" x ¾")
Gasket	Non-Asbestos

TECHNICAL DATA	
Max. Working Temperature	375°F (190°C)
Max. Working Pressure	4" to 6" Models - 160 psi (1103 kPa) 8" to 12" Models - 165 psi (1140 kPa)
Connection Type	150# Flanged ANSI (RFSO)

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 REMOVE STRAINER	
Size	Distance in. (mm)
VAS 4	16 (406)
VAS 5	19 (483)
VAS 6	22 (558)
VAS 8	26 (660)
VAS 10	29 (737)
VAS 12	36 (914)

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