

## Vortex Air Separators - Models VA / VAS: 4" to 12"

## SUBMITTAL

|                   |                       |             |
|-------------------|-----------------------|-------------|
| JOB: _____        | REPRESENTATIVE: _____ |             |
| ENGINEER: _____   | ORDER NO: _____       | DATE: _____ |
| CONTRACTOR: _____ | SUBMITTED BY: _____   | DATE: _____ |
|                   | APPROVED BY: _____    | DATE: _____ |

MODEL NO. ORDERED: \_\_\_\_\_ QTY.: \_\_\_\_\_  
 TAG NO.: \_\_\_\_\_

**All models designed and built to ASME Pressure Vessel Code, Section VIII, Division 1.**

**TYPICAL SPECIFICATION**

Furnish & install an Armstrong Vortex® Air Separator, Model \_\_\_ VA or Model \_\_\_ VAS (with strainer) with flanged tangential connections as shown on plans. The unit shall be designed and built in accordance with the latest revisions of ASME Pressure Vessel Code, Section VIII, Division 1. A blowdown connection is provided for routine cleaning of the unit.

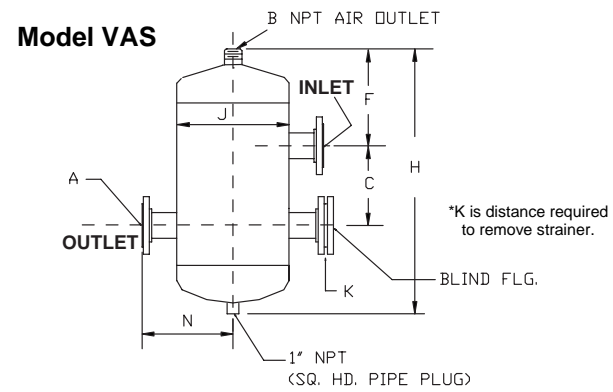
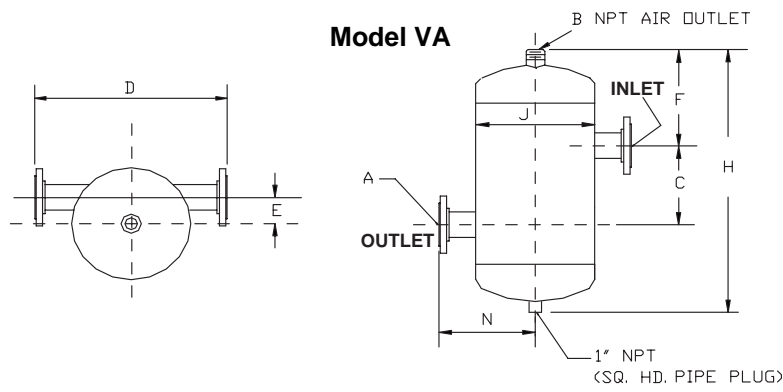
**TECHNICAL DATA**

|                          |                          |
|--------------------------|--------------------------|
| Max. Working Temperature | 375°F (190°C)            |
| Max. Working Pressure    | 165 psi (1140 kPa)       |
| Connection Type          | 150# Flanged ANSI (RFSO) |

**MATERIALS OF CONSTRUCTION**

|          |                          |
|----------|--------------------------|
| Shell    | Fabricated Steel         |
| Strainer | Steel Mesh (1/4" x 3/4") |
| Gasket   | Non-Asbestos             |

| MODEL |        | DIMENSIONS<br>inches (mm) |                  |                |                |               |                |                 |                |                |                | MAX. FLOW RATE in<br>USgpm (L/s)<br>for LINE VELOCITY<br>ft/s (m/s) |                 |                 | WEIGHT<br>lbs. (kg) |              | STRAINER<br>SCREEN<br>FREE<br>AREA<br><br>Sq. in.<br>(Sq. cm) |
|-------|--------|---------------------------|------------------|----------------|----------------|---------------|----------------|-----------------|----------------|----------------|----------------|---|-----------------|-----------------|---------------------|--------------|---|
|       |        | LESS<br>STRAINER          | WITH<br>STRAINER | A              | B              | C             | D              | E               | F              | H              | J              | K   | N               | 4<br>(1.22)     | 6<br>(1.83)         | 8<br>(2.44)  |   |
| VA-4  | VAS-4  | 4.00<br>(102)             | 1.50<br>(38)     | 9.50<br>(241)  | 18.00<br>(457) | 2.25<br>(57)  | 7.62<br>(194)  | 24.62<br>(626)  | 10.75<br>(273) | 16.00<br>(406) | 9.00<br>(229)  | 160<br>(10.1)   | 240<br>(15.1)   | 320<br>(20.2)   | 66<br>(30)          | 106<br>(48)  | 76<br>(490)   |
| VA-5  | VAS-5  | 5.00<br>(127)             | 1.50<br>(38)     | 11.00<br>(279) | 20.00<br>(508) | 2.88<br>(73)  | 8.75<br>(222)  | 28.62<br>(727)  | 12.75<br>(324) | 19.00<br>(483) | 10.00<br>(254) | 250<br>(9.84)   | 375<br>(14.8)   | 500<br>(31.6)   | 92<br>(42)          | 142<br>(64)  | 124<br>(800)  |
| VA-6  | VAS-6  | 6.00<br>(152)             | 1.50<br>(38)     | 12.50<br>(318) | 24.00<br>(610) | 4.00<br>(102) | 10.19<br>(259) | 32.62<br>(829)  | 16.00<br>(406) | 22.00<br>(558) | 12.00<br>(305) | 360<br>(22.7)   | 540<br>(34.1)   | 720<br>(45.4)   | 120<br>(54)         | 183<br>(83)  | 183<br>(1181)   |
| VA-8  | VAS-8  | 8.00<br>(203)             | 2.00<br>(51)     | 16.00<br>(406) | 28.00<br>(711) | 5.00<br>(127) | 12.81<br>(310) | 41.25<br>(1048) | 20.00<br>(508) | 26.00<br>(660) | 14.00<br>(356) | 630<br>(39.8)   | 940<br>(59.3)   | 1250<br>(78.9)  | 228<br>(103)        | 332<br>(151) | 302<br>(1949)   |
| VA-10 | VAS-10 | 10.00<br>(254)            | 2.00<br>(51)     | 20.00<br>(508) | 32.00<br>(813) | 5.75<br>(146) | 15.00<br>(381) | 49.50<br>(1257) | 24.00<br>(610) | 29.00<br>(737) | 16.00<br>(406) | 990<br>(62.5)   | 1500<br>(94.6)  | 1980<br>(124.9) | 390<br>(177)        | 547<br>(248) | 452<br>(2916)   |
| VA-12 | VAS-12 | 12.00<br>(305)            | 2.00<br>(51)     | 26.00<br>(660) | 38.00<br>(965) | 7.75<br>(197) | 17.56<br>(446) | 61.25<br>(1556) | 30.00<br>(762) | 36.00<br>(914) | 19.00<br>(483) | 1400<br>(88.3)  | 2100<br>(132.5) | 2800<br>(176.7) | 609<br>(276)        | 856<br>(388) | 679<br>(4381)   |



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