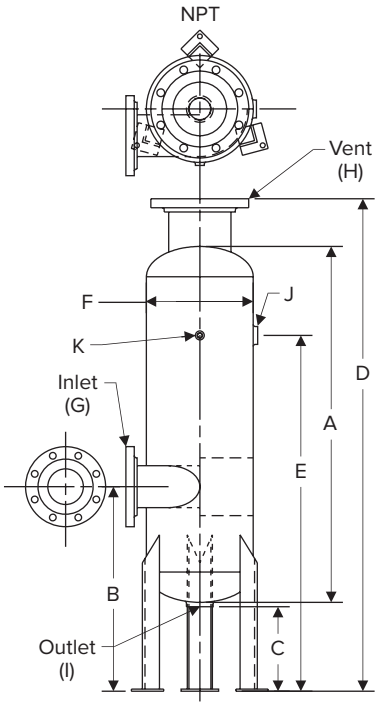
# Vertical Flash Tanks (VAFT)






## Features

- ASME coded and stamped vessels
- Standard pressure rating 150 psig (other pressure ratings available upon request)
- Standard models are designed and sized to cover a wide range of applications and loads
- Flash vessels are designed to provide low velocity flash steam with no water carryover
- Quick payback for flash recovery investment
- Special tanks available upon request

For a fully detailed certified drawing, refer to CDF #1023.

## Flash Steam Savings Analysis

**Part I: Determining the amount of flash steam produced**

A. Condensate Load — A = _____ lb/hr.

B. Annual hours of operation — B = _____ hrs/yr.

C. Steam Cost — C = _____ $/1 000 lbs.

D. Flash steam percentage from chart (on page 264) — D = _____ %

E. Flash steam produced:

D x A = flash steam produced — E = _____ lb/hr.

**Part II: Determining dollar value of the flash steam**

F. Annual flash steam savings:

$$F = \frac{E \times B \times C}{1\,000}$$

F = _____ $/yr.

**Physical Data—Standard Design Model VAFT**

| Model No. | AFT-6 | | AFT-8 | | AFT-12 | | AFT-16 | |
|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm | in | mm |
| A | 36 | 914 | 36 | 914 | 40 | 1 016 | 48 | 1 219 |
| B | 21 | 533 | 21 | 533 | 23 | 584 | 26 | 660 |
| C | 9-1/2 | 241 | 9-1/2 | 241 | 9-1/2 | 241 | 9-1/2 | 241 |
| D | 51 | 1 295 | 52 | 1 321 | 55-3/8 | 1 407 | 63-1/2 | 1 613 |
| E | 36 | 914 | 36 | 914 | 40 | 1 016 | 48 | 1 219 |
| F | 6 | 150 | 8 | 203 | 12 | 305 | 16 | 406 |
| G | 2 | 50 | 3 | 80 | 4 | 102 | 6 | 150 |
| H | 2-1/2 | 65 | 4 | 102 | 6 | 150 | 6 | 150 |
| I | 1-1/2 | 40 | 1-1/2 | 40 | 2 | 50 | 2 | 50 |
| J | 3/4 | 20 | 1 | 25 | 1-1/2 | 40 | 2 | 50 |
| K | 1/2 | 15 | 1/2 | 15 | 1/2 | 15 | 1/2 | 15 |

NOTE: Connections “G” and “H” are 150 lb. flanges. All others are NPT. All flash tanks are ASME coded for 150 psig (10 barg). Special sizes available upon request.

**Capacities—Standard Design Model VAFT**

| Model No. | Maximum Condensate Load | | Maximum Flash Load | |
|---|---|---|---|---|
| | lb/hr | kg/hr | lb/hr | kg/hr |
| AFT-6 | 2 000 | 907 | 325 | 147 |
| AFT-8 | 5 000 | 2 268 | 900 | 408 |
| AFT-12 | 10 000 | 4 536 | 2 000 | 907 |
| AFT-16 | 20 000 | 9 072 | 2 000 | 907 |