

Compact Filter/Separator Vessels for Fixed Installations



FEATURES

- Compact Design
- Code Qualification
- Simplified Maintenance
- Field Proven Performance

DESCRIPTION

Units are designed for ease of maintenance with one piece threaded base coalescers and reusable one-piece Teflon® coated screen separators. The 85 Series coalescer cartridges used in most of these vessels have been field proven to give exceptionally long service life.

SPECIFICATIONS

- 150 psi ASME Code Construction
- RF Flanged Connections
- Swing Bolted Closure
- Buna-N O-Ring Cover Seal
- MIL-PRF-4556 Epoxy Coated Interior, Primed Exterior

RECOMMENDED ACCESSORIES

The following accessories are recommended for safe, effective operation at all installations.

- Automatic Air Vent
- Pressure Relief Valve
- Differential Pressure Gauge
- Sampling Probes
- Interface Control
- ASME Code Stamp
- Water Slug Control Valve
- Manual Drain Valve

OTHER ACCESSORIES AVAILABLE

- Sump Heater
- Sight Glass

NOTE: These vessels were previously qualified to API 1581 3rd Edition, which has been superseded by API/IEC 1581 5th Edition. For vessels qualified to this latest edition, please refer to data sheet #1947.

CARTRIDGE SELECTION

| Velcon Vessel Model No. | Flow Rate (USGPM) ¹ | | Coalescer Elements | | | Separator Elements | |
|-------------------------|--------------------------------|----------|--------------------|--------------------------------|-----------------------------------|--------------------|--------------|
| | Kerosene API Group II Class B | Gasoline | Qty. | 83 Series Options ² | 85/87 Series Options ³ | Qty. | Model Number |
| V1222 | 50 | 70 | 1 | I-62283TB | I-62287TB | 1 | SO-318C |
| V1622 | 100 | 140 | 2 | I-62283TB | I-62287TB | 1 | SO-623C |
| V1633 | 155 | 215 | 2 | I-63383TB | I-63387TB | 1 | SO-629C |
| VV1633 | 200 | 260 | 3 | I-63383TB | I-63387TB | 1 | SO-436V |
| VV1833 | 220 | 305 | 3 | I-63383TB | I-63385TB | 1 | SO-633VA |
| VV1838 | 270 | 380 | 3 | I-63883TB | I-63885TB | 1 | SO-640V |
| VV2044 | 300 | 445 | 3 | I-64483TB | I-64485TB | 1 | SO-644V |
| VV2328 | 335 | 450 | 5 | I-62883TB | I-62885TB | 2 | SO-630PV |
| VV2333 | 400 | 540 | 5 | I-63383TB | I-63385TB | 2 | SO-630PV |
| VV2338 | 465 | 630 | 5 | I-63883TB | I-63885TB | 2 | SO-636PV |
| VV2344 | 540 | 740 | 5 | I-64483TB | I-64485TB | 2 | SO-640PV |
| VV2833 | 560 | 760 | 7 | I-63383TB | I-63385TB | 3 | SO-630PV |
| VV2838 | 605 | 880 | 7 | I-63883TB | I-63885TB | 3 | SO-630PV |
| VV2844 | 765 | 1035 | 7 | I-64483TB | I-64485TB | 3 | SO-640PV |
| VV2856 | 900 | 1340 | 7 | I-65683TB | I-65685TB | 3 | SO-644PV |
| VV3638 | 1030 | 1390 | 11 | I-63883TB | I-63885TB | 5 | SO-636PV |
| VV3644 | 1205 | 1630 | 11 | I-64483TB | I-64485TB | 5 | SO-636PV |
| VV3656 | 1800 | 2340 | 12 | I-65683 | I-65685 | 6 | SO-644V |
| VV4856 | 3000 | 3900 | 20 | I-65683 | I-65685 | 10 | SO-644PV |

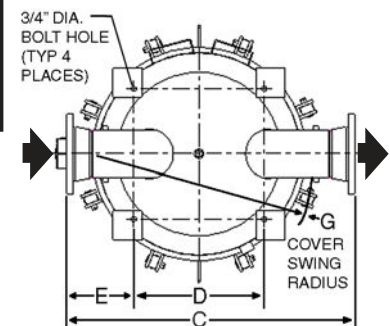
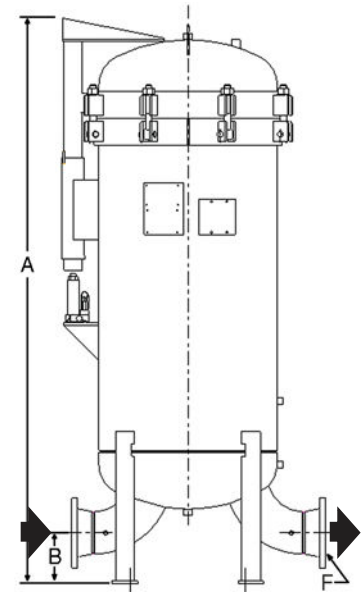
- Based on fuel with minimum interfacial tension of 36 dynes per centimeter over water.
- For gasoline and API 1581, Group I Class B.
- For API 1581 Second and Third Editions, Group II Class B. All "85" Series Coalescers are also available as "87" Series. "87" Series Coalescers are also qualified to API 1581 Third Edition, Group II Class B.

DIMENSIONAL DATA

| Velcon Vessel Model No. | Dimensions (inches) ¹ | | | | | | | Weight With Skid (lbs) | Volume (US gal) |
|-------------------------|----------------------------------|---|---------|--------|----------|-------|---------|------------------------|-----------------|
| | A | B | C | D | E | F | G | | |
| V1222 | 43 3/4 | 6 | 17 1/8 | 8 | 4 9/16 | 1 1/2 | No Lift | 360 | 14 |
| V1622 | 51 3/16 | 6 | 22 7/8 | 9 | 7 5/16 | 2 1/2 | 17 1/2 | 500 | 28 |
| V1633 | 57 5/16 | 6 | 22 7/8 | 9 | 7 5/16 | 2 1/2 | 17 1/2 | 600 | 37 |
| VV1633 | 65 9/16 | 6 | 28 1/4 | 9 | 9 19/32 | 4 | 17 1/2 | 620 | 39 |
| VV1833 | 67 5/8 | 6 | 29 3/8 | 10 1/2 | 9 13/16 | 4 | 23 3/4 | 700 | 49 |
| VV1838 | 68 3/8 | 6 | 29 3/8 | 10 1/2 | 9 13/16 | 4 | 23 3/4 | 950 | 54 |
| VV2044 | 77 3/4 | 6 | 29 5/8 | 13 | 8 5/16 | 4 | 24 3/4 | 1075 | 75 |
| VV2328 | 73 1/2 | 6 | 35 1/16 | 15 1/2 | 8 9/16 | 4 | 29 5/8 | 1170 | 85 |
| VV2333 | 69 1/2 | 8 | 36 1/8 | 15 1/2 | 9 1/16 | 6 | 29 5/8 | 1170 | 85 |
| VV2338 | 76 5/16 | 8 | 36 1/8 | 15 1/2 | 9 1/16 | 6 | 29 5/8 | 1200 | 95 |
| VV2344 | 80 1/2 | 8 | 36 1/8 | 15 1/2 | 9 1/16 | 6 | 29 5/8 | 1225 | 100 |
| VV2833 | 81 1/4 | 8 | 37 1/8 | 18 | 9 5/8 | 6 | 39 | 1600 | 155 |
| VV2838 | 82 9/16 | 8 | 37 1/8 | 18 | 9 9/16 | 6 | 39 | 1600 | 155 |
| VV2844 | 91 9/16 | 8 | 37 1/8 | 18 | 9 9/16 | 6 | 39 | 1650 | 170 |
| VV2856 | 99 15/32 | 8 | 37 1/8 | 18 | 9 9/16 | 6 | 39 | 1750 | 200 |
| VV3638 | 91 1/32 | 9 | 52 7/8 | 24 | 12 15/16 | 8 | 44 | 2140 | 300 |
| VV3644 | 96 | 9 | 52 7/8 | 24 | 12 15/16 | 8 | 44 | 2150 | 305 |
| VV3656 | 110 1/2 | 9 | 52 7/8 | 24 | 12 15/16 | 8 | 44 | 2300 | 355 |
| VV4856 | 114 11/32 | 9 | 56 1/2 | 32 | 12 1/4 | 10 | 57 3/4 | 3600 | 656 |

- V12, V16, VV18, 20, and 23 Series Filter/Separators have flat covers. All other models have domes.
- V12 Series Filter/Separators have no jack. V16 Series Filter/Separators have screw-type jacks. All other models have hydraulic-type jacks.
- VV1633 vessels are built with the float chamber as a standard accessory.

¹ DIMENSIONS SHOWN ARE FOR ESTIMATING PURPOSES ONLY. FOR EXACT DIMENSIONAL DETAIL, OBTAIN CERTIFIED COPY OF VESSEL DRAWING.



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