



Horizontal Filter/Separators

HV Series

Compact Horizontal Filter/Separator Vessels for Fixed Installations Offers Significant Operating Advantages Over Vertical Designs

EASIER CARTRIDGE CHANGE

The horizontal filter/separator design provides more convenient access to the cartridges than the vertical design.

EFFLUENT CLEANLINESS

A horizontal filter/separator must be drained to change the elements. This prevents the possibility of getting dirt in the effluent that can occur if the operator does not fully drain a vertical vessel when changing elements. The separator mounting holes on a horizontal vessel are in a vertical plane at the top of the vessel so it is nearly impossible to get dirt in the effluent when cartridges are being changed.

LOWER COST

A horizontal filter/separator will often cost less than a vertical filter/separator of the same rated flow, for the same specifications.

INDUSTRY QUALIFIED

Velcon HV Series Horizontal Filter/Separators are fully qualified to API Publication 1581, Third Edition, Group II, Class B (fixed installations). These units incorporate one piece threaded base coalescer elements for easy, reliable installation and reusable one piece Teflon[®] coated screen separators.

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 (ballast type float recommended)
- Water Slug Control Valve
- Manual Drain Valve
- ASME Code Stamp
- API Nameplate

OTHER ACCESSORIES AVAILABLE

- Sump Heater
- Sight Glass

[®] Teflon is a registered trademark of E.I. du Pont de Nemours & Co., Inc.

Compact Horizontal Filter/Separator Vessels for Fixed Installations

CARTRIDGE SELECTION

Vessel Model No.	Flow Rates - USGPM ⁽¹⁾		Coalescer Elements			Separator Elements	
	Kerosene API Group II Class B	Gasoline	Qty	83 Series Options ⁽²⁾	85 Series Options ⁽³⁾	Qty	Model Number
HV-1422	100	150	2	I-62283TB	I-62285TB	1	SO-323C
HV-1622	150	230	3	I-62283TB	I-62285TB	1	SO-424C
HV-1633	240	350	3	I-63383TB	I-63385TB	1	SO-436C
HV-2233	320	475	4	I-63383TB	I-63385TB	2	SO-430C
HV-2244	435	650	4	I-64483TB	I-64485TB	2	SO-436C
HV-2838	655	950	7	I-63883TB	I-63885TB	2	SO-636CM
HV-2844	765	1100	7	I-64483TB	I-64485TB	2	SO-640CM
HV-2856	990	1400	7	I-65683TB	I-65685TB	2	SO-648CM
HV-3456	1400	1900	10	I-65683TB	I-65685TB	3	SO-648CM

- Notes:** 1. Based on fuel with minimum interfacial tension of 36 dynes per centimeter over water.
 2. For gasoline and API 1581, Group I Class B.
 3. For API 1581 Third Edition, Group II Class B. (Also qualified with 87 Series Coalescers.)

DIMENSIONAL DATA

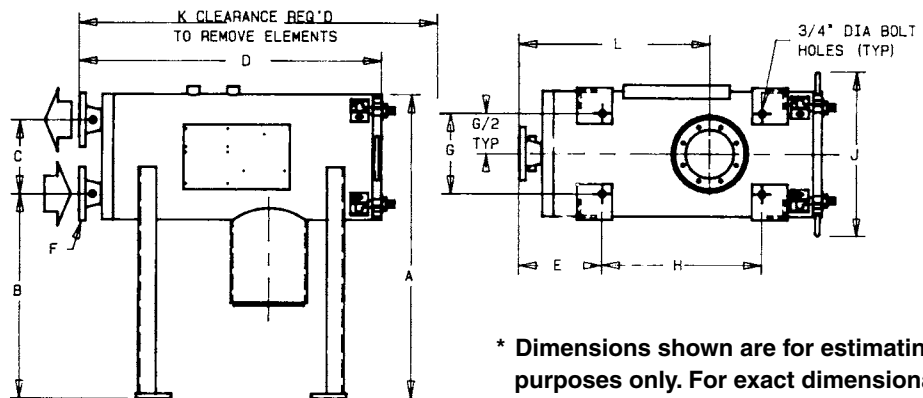
Vessel Model No.	Dimensions (inches)*										
	A	B	C	D	E	F	G	H	J	K	L
HV-1422	35 ³ / ₄	25 ¹ / ₈	8 ¹ / ₈	35 ¹¹ / ₁₆	9 ³ / ₈	2	9	18	18 ¹ / ₂	56	21 ¹ / ₂
HV-1622	36 ³ / ₈	23 ³ / ₈	10	35 ¹ / ₁₆	9 ³ / ₈	4	13	16	20 ⁵ / ₈	58	17 ¹ / ₂
HV-1633	36 ³ / ₈	23 ³ / ₈	10	45 ⁹ / ₁₆	9 ³ / ₈	4	13	27	20 ⁵ / ₈	80	28 ⁵ / ₈
HV-2233	53	38 ¹ / ₂	10	50 ³ / ₄	14 ⁷ / ₁₆	4	16	23 ¹ / ₂	27 ¹ / ₁₆	83	29
HV-2244	53	38 ¹ / ₂	10	62 ¹ / ₄	14 ⁷ / ₁₆	4	16	29 ¹ / ₂	27 ¹ / ₁₆	105	29 ⁵ / ₁₆
HV-2838	55 ³ / ₄	34 ¹ / ₄	16 ³ / ₄	57	15	6	22	22	34 ¹ / ₂	83	27
HV-2844	55 ³ / ₄	34 ¹ / ₄	16 ³ / ₄	61	16	6	22	22 ¹ / ₂	34 ¹ / ₂	93	33
HV-2856	55 ³ / ₄	34 ¹ / ₄	16 ³ / ₄	67 ³ / ₄	15	6	22	42	34 ¹ / ₂	122	45
HV-3456	65 ³ / ₈	38 ³ / ₈	20	82 ¹ / ₂	18 ⁷ / ₁₆	6**	28	38 ¹ / ₄	39 ³ / ₄	124	37 ¹ / ₂

Notes: HV-14, -16 and -22 series filter/separators have flat covers while the HV-28, and -34 series have domed covers.


** If 8" Flanges are desired, specify P/N 180-CC.

WEIGHTS AND VOLUMES

Vessel Model No.	Weight With Skid (lbs)	Volume (US gal)
HV-1422	390	20
HV-1622	435	28
HV-1633	475	37
HV-2233	800	73
HV-2244	860	90
HV-2838	1050	130
HV-2844	1100	145
HV-2856	1200	176
HV-3456	1800	290



* Dimensions shown are for estimating purposes only. For exact dimensional detail, obtain copy of vessel drawing.



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE**:

COMPANY HEADQUARTERS:
 Velcon Filters, Inc.
 1210 Garden of the Gods Road
 Colorado Springs, CO 80907-3410
 Phone: 1.800.531.0180 / 1.719.531.5855
 Fax: 719.531.5690
 e-mail: vfsales@velcon.com
 www.velcon.com

MANUFACTURING PLANTS LOCATED AT:
 Colorado Springs, Colorado
 Sylacauga, Alabama

OVERSEAS AFFILIATES:
 Frankfurt/M., Germany & Singapore

**Liquid Filtration
 and Separation
 Specialists**