

Horizontal Filter/Separator Vessels

HV Series - Compact Vessels for Fixed Installations

EI 1581 6th Edition, Cat C/M, Type S

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

Parker Velcon HV Series Horizontal Filter/Separators are fully qualified to EI 1581, Sixth Edition, Category C, Type S (fixed installations). These units incorporate one piece threaded base coalescer cartridges for easy, reliable installation and reusable one piece PTFE coated screen separators.

SPECIFICATIONS

- 150 psi ASME Code & EI 1596 Construction
- RF Flanged Connections
- Swing Bolted Closure
- Buna-N O-ring Cover Seal
- EI 1541 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
- EI Nameplate

**Required for EI1581 6th edition*

OTHER ACCESSORIES AVAILABLE

- Sump Heater
- Sight Glass

CARTRIDGE SELECTION

Model	Category	Type	Flow Rates GPM (LPM)	Qty	Coalescer Cartridges	Qty	Separator Cartridges
HV1422	C	S	100 (379)	2	I-622C5TB	1	SO-324V5
	M				I-622MMTB		
HV1622	C	S	150 (568)	3	I-622MMTB ⁽¹⁾	1	SO-424V5
	M				I-622MMTB		
HV1633	C	S	240 (908)	3	I-633MMTB ⁽¹⁾	1	SO-436V5
	M				I-633MMTB		
HV2233	C	S	365 (1382)	4	I-633C5TB	2	SO-430V
	M		315 (1192)		I-633MMTB		SO-430V5
HV2244	C	S	495 (1874)	4	I-644C5TB	2	SO-436V
	M		425 (1609)		I-644MMTB		SO-436V5
HV2838	C	S	745 (2820)	7	I-638C5TB	2	SO-636V
	M		615 (2328)		I-638MMTB		SO-636V5
HV2844	C	S	870 (3293)	7	I-644C5TB	2	SO-640V
	M		690 (2612)		I-644MMTB		SO-640V5
HV2856	C	S	1130 (4278)	7	I-656C5TB	2	SO-648V
	M		830 (3142)		I-656MMTB		SO-648V5
HV3456	C	S	1420 (5375)	10	I-656C5TB	5	SO-648V5
	M		1250 (4732)		I-656MMTB	3	

Notes: 1. Testing to Category "M" qualifies for both Category "M" and Category "C".

DIMENSIONAL DATA

Model No.	Dimensions in.(mm)*										
	A	B	C	D	E	F	G	H	J	K	L
HV1422	35 $\frac{3}{4}$ (10897)	25 $\frac{1}{8}$ (7658)	8 $\frac{1}{8}$ (2477)	35 $\frac{1}{16}$ (906)	9 $\frac{3}{8}$ (238)	2 (51)	9 (229)	18 (457)	18 $\frac{1}{2}$ (470)	56 (1422)	21 $\frac{1}{2}$ (546)
HV1622	36 $\frac{3}{8}$ (11087)	23 $\frac{3}{8}$ (7125)	10 (3048)	35 $\frac{1}{16}$ (891)	9 $\frac{3}{8}$ (238)	4 (102)	13 (330)	16 (406)	20 $\frac{3}{8}$ (524)	58 (1473)	17 $\frac{1}{2}$ (445)
HV1633	36 $\frac{3}{8}$ (11087)	23 $\frac{3}{8}$ (7125)	10 (3048)	45 $\frac{1}{16}$ (1157)	9 $\frac{3}{8}$ (238)	4 (102)	13 (330)	27 (686)	20 $\frac{3}{8}$ (524)	80 (2032)	28 $\frac{3}{8}$ (727)
HV2233	53 (16154)	38 $\frac{1}{2}$ (11735)	10 (3048)	50 $\frac{3}{4}$ (1289)	14 $\frac{7}{16}$ (367)	4 (102)	16 (406)	23 $\frac{1}{2}$ (597)	27 $\frac{1}{16}$ (687)	85 (2159)	29 (737)
HV2244	53 (16154)	38 $\frac{1}{2}$ (11735)	10 (3048)	62 $\frac{1}{4}$ (1581)	14 $\frac{7}{16}$ (367)	4 (102)	16 (406)	29 $\frac{1}{2}$ (749)	27 $\frac{1}{16}$ (687)	105 (2667)	29 $\frac{3}{16}$ (745)
HV2838	55 $\frac{3}{4}$ (16993)	34 $\frac{1}{4}$ (10439)	16 $\frac{3}{4}$ (5105)	57 (1448)	15 (381)	6 (152)	22 (559)	22 (559)	34 $\frac{1}{2}$ (876)	83 (2108)	27 (686)
HV2844	55 $\frac{3}{4}$ (16993)	34 $\frac{1}{4}$ (10439)	16 $\frac{3}{4}$ (5105)	61 (1549)	16 (406)	6 (152)	22 (559)	22 $\frac{1}{2}$ (572)	34 $\frac{1}{2}$ (876)	93 (2362)	33 (838)
HV2856	55 $\frac{3}{4}$ (16993)	34 $\frac{1}{4}$ (10439)	16 $\frac{3}{4}$ (5105)	67 $\frac{3}{4}$ (1721)	15 (381)	6 (152)	22 (559)	42 (1067)	34 $\frac{1}{2}$ (876)	122 (3099)	45 (1143)
HV3456	65 $\frac{3}{8}$ (19926)	38 $\frac{3}{8}$ (11697)	20 (6096)	82 $\frac{1}{2}$ (2096)	18 $\frac{1}{16}$ (468)	6** (152)	28 (711)	38 $\frac{1}{4}$ (972)	39 $\frac{3}{4}$ (1010)	124 (3150)	37 $\frac{1}{2}$ (953)

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

** If 8 in. flanges are desired, specify P/N 180-CC.

WEIGHTS AND VOLUMES

Model	Weight With Skid lbs(kg)	Volume Gal.(Ltr.)
HV1422	390 (177)	20 (76)
HV1622	435 (197)	28 (106)
HV1633	475 (215)	37 (140)
HV2233	800 (363)	73 (276)
HV2244	860 (363)	90 (341)
HV2838	1050 (476)	130 (492)
HV2844	1100 (499)	145 (549)
HV2856	1200 (544)	176 (666)
HV3456	1800 (816)	290 (1098)

