

HV Two Stage Horizontal Liquid Filter Separator

The 3L Filters™ HV Series liquid filter separators provide water coalescing and filtration of hydrocarbon fuels. The HV's horizontal layout and two-stage design effectively removes particulate from fuel and provides convenient access for cartridge replacement. Units can be engineered for either fixed or mobile applications

Applications

Water coalescing and filtration of hydrocarbon fuels such as jet fuel, kerosene, diesel, gasoline and similar liquids.

Standard Features

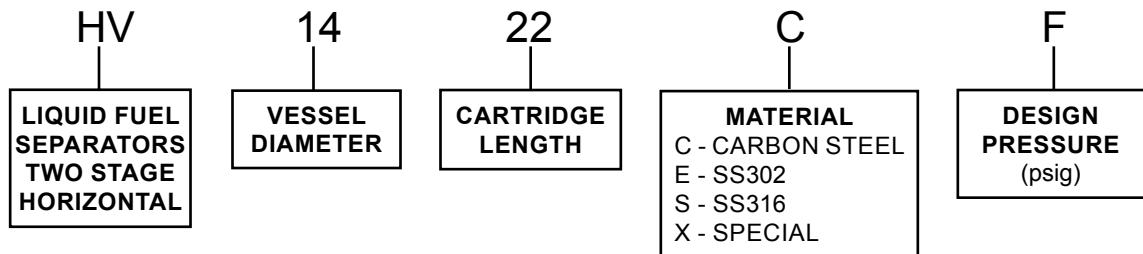
- designed to ASME Section VIII Div.1 & 2 and API Bulletin 1581
- 150 psig standard design pressure
- -320°F to 150°F (-118°C to 66°C) standard design temperature
- 150 lb ANSI RF flanged inlet/outlet
- 3000 lb NPT couplings for vent, drain and pressure gauge connections
- carbon steel housing material
- leg supports for housings under 12" (305 mm) diameter
- saddle supports for housings 12" (305 mm) diameter and over
- quick access for replacement of cartridges
- standard Swing Bolt closure with O-ring seal
- external primer finish for carbon steel housing
- internal epoxy coating

Options & Accessories

- custom design pressures to 3000 psig
- custom flange rating
- custom housing materials
- optional closure: Thru-Bolt
- O-ring closure seal in Buna or Viton®
- electropolishing of stainless steel housings
- passivation of stainless steel housings
- paint or coating to customer specification
- sump heater
- additional nozzles as needed
- air eliminators
- valves
- safety relief valves
- automatic water dump valve
- water slug shut-off device
- pressure gauges
- liquid level gauges
- duplex or multiplex arrangement
- working platform



Model Coding



HV

Liquid Filter Separators (Two Stage Horizontal)

Fig.	Model No.	Coalescer Elements		Separator Elements		A Vessel OD in (mm)	B1 in (mm)	B2 in (mm)	C in (mm)	D in (mm)	E in (mm)	G in (mm)	H1 in (mm)	H2 in (mm)	Inlet/ Outlet (RF)	Vent Safety Drains (NPT)	Press. Gauge (NPT)	GPM (US) Kerosene API Group II	GPM (US) Gasoline	Weight lbs (kg)
		Qty	Lg in (mm)	Qty	Lg in (mm)															
1	HV1422C150	2	22 (559)	1	23 (284)	14 (356)	8.125 (206)	25.125 (638)	33 (838)	37.0 (940)	56 (1422)	35.750 (908)	9 (229)	18.00 (457)	2"	3/4"	1/2"	100	150	390 (171)
1	HV1622C150	3	22 (559)	1	24 (610)	16 (406)	10.000 (254)	23.375 (594)	34 (864)	38.0 (965)	58 (1473)	36.375 (924)	13 (330)	16.00 (406)	4"	3/4"	1/2"	150	230	435 (197)
1	HV1633C150	3	33 (838)	1	36 (914)	16 (406)	10.000 (254)	23.375 (594)	44 (1118)	48.0 (1219)	80 (2032)	36.375 (924)	13 (330)	27.00 (686)	4"	3/4"	1/2"	240	350	475 (215)
1	HV2233C150	4	33 (838)	2	30 (762)	22 (559)	10.000 (254)	38.500 (978)	50 (1270)	54.0 (1372)	83 (2108)	53.000 (1346)	16 (406)	23.50 (597)	4"	3/4"	1/2"	320	475	800 (363)
1	HV2244C150	4	44 (1118)	2	36 (914)	22 (559)	10.000 (254)	38.500 (978)	61 (1549)	65.0 (1651)	105 (2667)	53.000 (1346)	16 (406)	29.50 (749)	4"	3/4"	1/2"	435	650	860 (390)
1	HV2838C150	7	38 (965)	2	36 (914)	28 (711)	16.750 (425)	34.250 (870)	45 (1143)	57.0 (1448)	83 (2108)	55.750 (1416)	22 (559)	22.00 (559)	6"	3/4"	1/2"	655	950	1050 (476)
1	HV2844C150	7	44 (1118)	2	40 (1016)	28 (711)	16.750 (425)	34.250 (870)	49 (1245)	61.0 (1549)	93 (2362)	55.750 (1416)	22 (559)	22.50 (571)	6"	3/4"	1/2"	765	1100	1100 (499)
1	HV2856C150	7	56 (1422)	2	48 (1219)	28 (711)	16.750 (425)	34.250 (870)	66 (1676)	78.0 (1981)	122 (3099)	55.750 (1416)	22 (559)	42.00 (1067)	6"	3/4"	1/2"	990	1400	1200 (544)
1	HV3456C150	10	56 (1422)	3	48 (1219)	34 (864)	20.000 (508)	38.375 (975)	68 (1727)	81.5 (2070)	124 (3150)	65.375 (1661)	28 (711)	38.25 (972)	6"	3/4"	1/2"	1400	1900	1800 (816)

Note:

Dimension 'E' is the minimum clearance required for cartridge removal.
 Drawings for reference only. Certified drawings will be supplied after receipt of order.
 Flow rates based on kerosene.

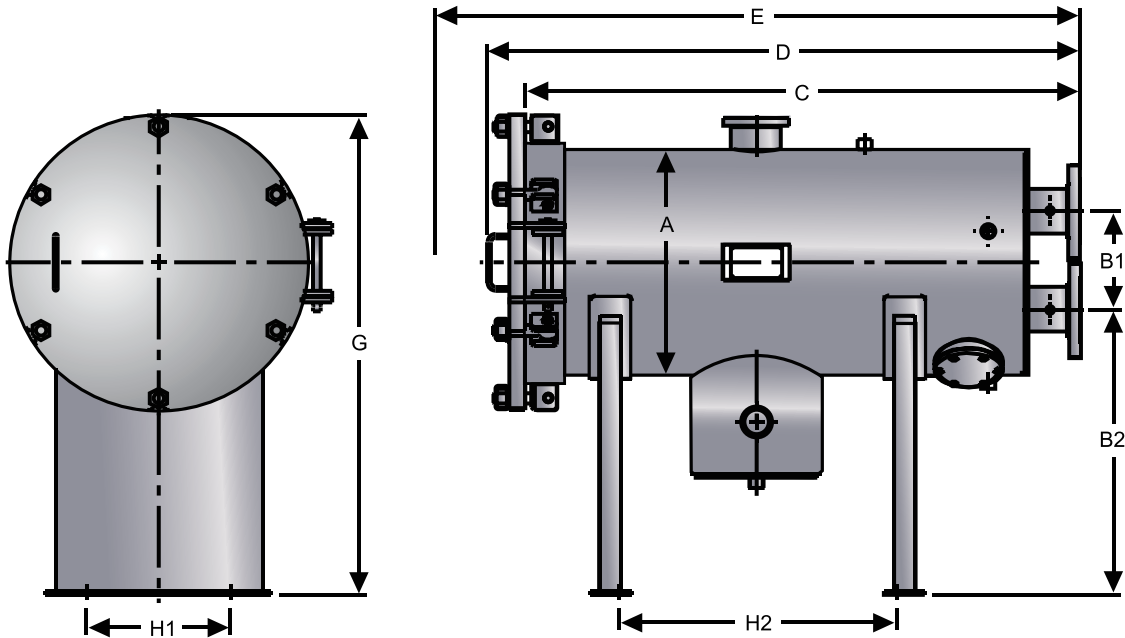


Figure 1