



CDF[®] Monitor Vessels

Compact Monitor Vessels Assure Clean, Dry Fuel Delivery

FEATURES

- **Lightweight** aluminum construction. Also available in less expensive carbon steel housings with aluminum deckplates.
- **Compact** size minimizes space requirements on mobile refueling equipment, in cabinets, and at loading racks.
- **Field Proven CDF** Series Monitor Cartridges are provided with the vessel.
- **Qualified** to the Institute of Petroleum's specification for fuel monitors when fitted with CDF-K Series Cartridges.
- **Positive Water Protection** means that additional water defense equipment, such as an electronic water detecting probe or a float control and slug valve, is not needed.
- **Rugged Construction** allows the vessel deckplate to exceed the 220 psid hydrostatic test requirement. CDF-K Series elements exceed 175 psid.

DESCRIPTION

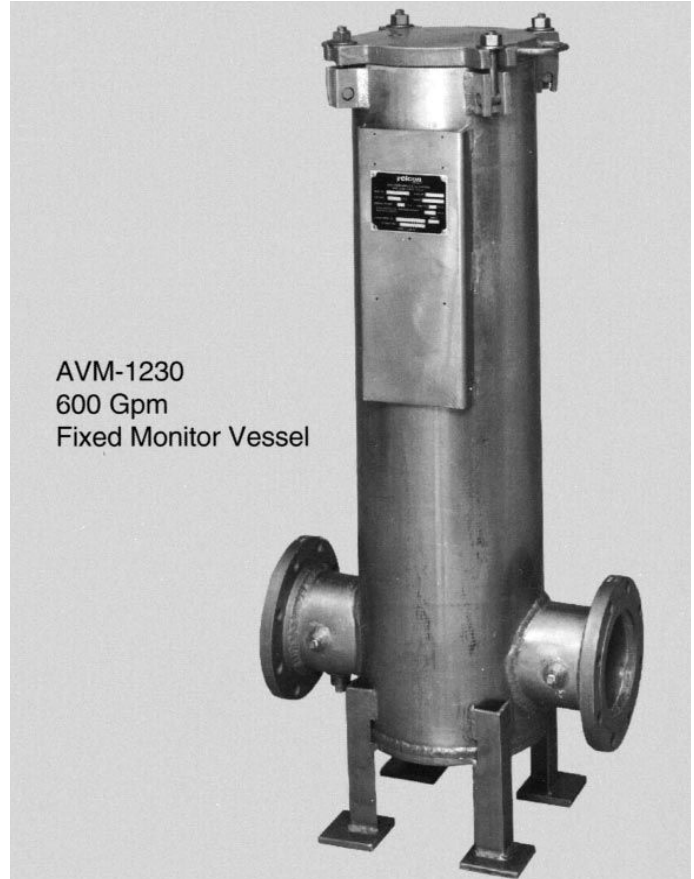
The Velcon CDF Monitor Vessels, equipped with the CDF-K Series Cartridges, provide superior performance and reliability for assuring clean, dry fuel. These vessels are for use downstream of filter/separators or on refueler trucks. The presence of water and/or dirt in the influent fuel is indicated by an increase in the pressure differential (or a decrease in flow rate if the monitor housing is not equipped with a differential pressure gauge). These changes are the result of flow restriction caused by dirt filtration or water absorption in the media. The rapidity of these changes will depend on the quantity of water or contaminant present.

SPECIFICATIONS

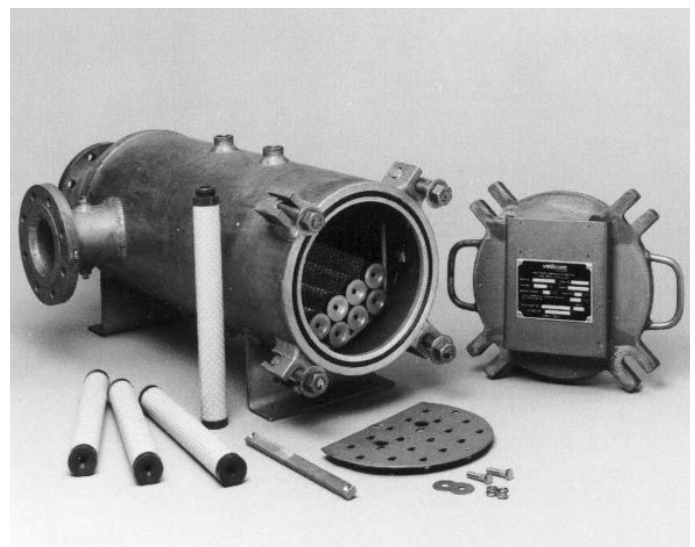
- 150 psi ASME Code Construction (higher pressures optional)
- 220 psid hydrotest pressure for deckplate
- Aluminum or Carbon Steel Construction
- Buna-N O-Ring cover seal
- Victaulic or flanged connections (specify one)
- Spider assembly for stabilizing cartridges
- Optional "check valve" spider available

Standard fittings for:

- Automatic Air Eliminator
- Pressure Relief Valve
- Manual Drain Valve(s)
- Differential Pressure Gauge
- Sampling Connections

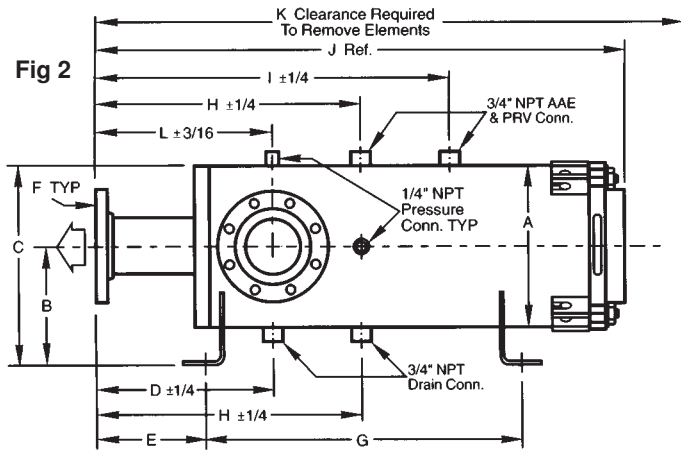
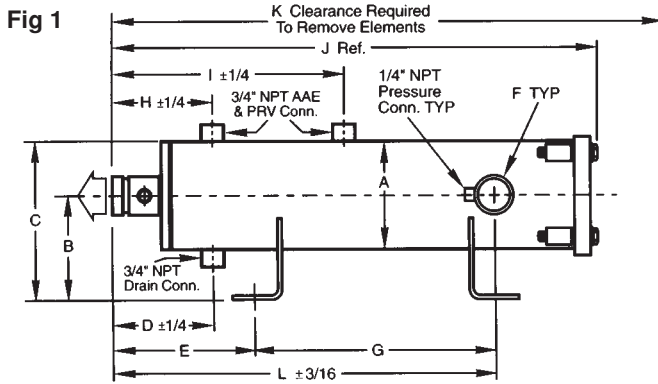


AVM-1230
600 Gpm
Fixed Monitor Vessel



AHM-1215M 300 GPM Mobile Monitor Vessel

CDF Monitor Vessels



HORIZONTAL (MOBILE) CDF MONITOR VESSELS FIGURES 1 AND 2 (SEE NOTE A)

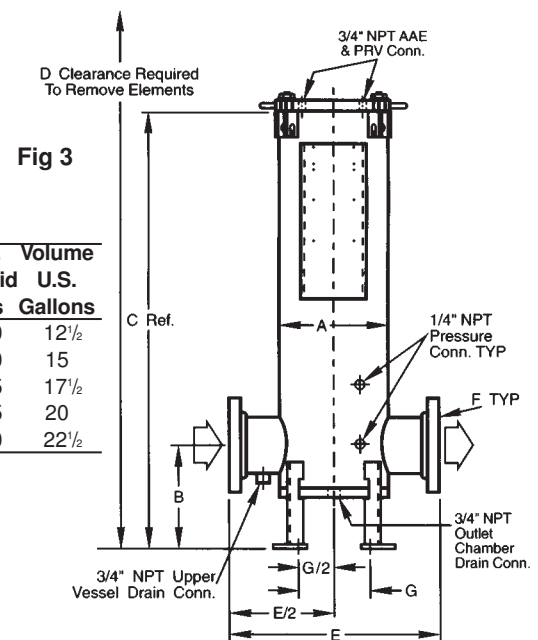
Vessel Model Number	Flow Rate US		Elements		Fig	Dimensions are in Inches														Wt. Volume w/Skid U.S.	
	GPM	L/M	Model	Qty		A	B	C	D	E	F	G	H	I	J	K	L	Lbs	Gallons		
AHM-0610M	50	185	CDF-210K	5	1	6 ⁵ / ₈	6 ⁵ / ₁₆	9 ⁵ / ₈	6 ⁷ / ₈	8 ⁷ / ₈	2	6 ⁷ / ₈	6	14 ⁷ / ₈	18 ³ / ₄	29	14	40	2 ¹ / ₂		
AHM-0620M	100	375	CDF-220K	5	1	6 ⁵ / ₈	6 ⁵ / ₁₆	9 ⁵ / ₈	6	8	2	15	6	14	29 ⁷ / ₈	48	23 ³ / ₄	45	3 ³ / ₄		
AHM-0630M	150	565	CDF-230K	5	1	6 ⁵ / ₈	6 ⁵ / ₁₆	9 ⁵ / ₈	6	8	2	25	6	14	40 ¹ / ₂	68	33 ³ / ₈	50	5		
AHM-1210M	200	755	CDF-210K	20	2	12 ³ / ₄	9 ³ / ₈	15 ³ / ₄	14	8 ¹ / ₂	4	20	25	31	38 ¹ / ₄	45	28 ¹ / ₂	110	12 ¹ / ₂		
AHM-1020M	200	755	CDF-220K	10	2	10 ³ / ₄	9 ³ / ₈	14 ³ / ₄	10	5 ¹ / ₂	4	25	18	25	41	61	10	155	11		
AHM-1215M	300	1135	CDF-215K	20	2	12 ³ / ₄	9 ³ / ₈	15 ³ / ₄	14	8 ¹ / ₂	4	25	25	31	43 ¹ / ₄	55	14	130	15		
AHM-1030M	300	1135	CDF-230K	10	2	10 ³ / ₄	9 ³ / ₈	14 ³ / ₄	10	5 ¹ / ₂	4	30	18	25	51	80	10	165	15		
AHM-1220M	400	1510	CDF-220K	20	2	12 ³ / ₄	9 ³ / ₈	15 ³ / ₄	14	8 ¹ / ₂	4	30	25	31	48 ¹ / ₄	65	14	155	17 ¹ / ₂		
AHM-1225M	500	1890	CDF-225K	20	2	12 ³ / ₄	9 ³ / ₈	15 ³ / ₄	14	8 ¹ / ₂	6	35	22	29	53 ¹ / ₄	75	14	175	20		
AHM-1230M	600	2270	CDF-230K	20	2	12 ³ / ₄	9 ³ / ₈	15 ³ / ₄	14	8 ¹ / ₂	6	40	22	29	58 ¹ / ₄	84	14	200	22 ¹ / ₂		
AHM-1430M	800	3025	CDF-230K	27	2	14	10 ¹ / ₂	17 ¹ / ₂	9 ³ / ₈	7	6	35	20	30	51 ⁹ / ₁₆	79	25	170	26		
AHM-1630M	1000	3785	CDF-230K	34	2	16	11 ¹ / ₂	19 ¹ / ₂	9 ³ / ₈	6	6	40	20*	30	57 ³ / ₄	85	25	200	41		
AHM-1830M	1200	4540	CDF-230K	40	2	18 ¹ / ₄	15 ¹ / ₈	24 ¹ / ₄	8 ³ / ₈	15 ⁷ / ₈	6	21 ¹ / ₂	17 ¹ / ₈	32	49 ¹ / ₂	76	25 ¹ / ₈	290	39		

Note: On this vessel "H" has two different dimensions. The AAE dimension (shown) is 20", while the lower "H" dimension is 13¹/₄"

VERTICAL (FIXED) CDF MONITOR VESSELS FIGURE 3 (SEE NOTE A)

Vessel Model Number	Flow Rate US		Elements		Dimensions are in Inches								Wt. Volume w/Skid U.S.	
	GPM	L/M	Model	Qty	A	B	C	D	E	F	G	Lbs	Gallons	
AVM-1210	200	755	CDF-210K	20	12 ³ / ₄	12	33	42	24	4	8 ¹ / ₂	110	12 ¹ / ₂	
AVM-1215	300	1135	CDF-215K	20	12 ³ / ₄	12	38	52	24	4	8 ¹ / ₂	130	15	
AVM-1220	400	1510	CDF-220K	20	12 ³ / ₄	12	43	62	24	4	8 ¹ / ₂	155	17 ¹ / ₂	
AVM-1225	500	1890	CDF-225K	20	12 ³ / ₄	12	47	71	24	6	8 ¹ / ₂	175	20	
AVM-1230	600	2270	CDF-230K	20	12 ³ / ₄	12	53	82	24	6	8 ¹ / ₂	200	22 ¹ / ₂	

Note A: Dimensions shown are for vessels made of aluminum. Dimensions may be slightly different for carbon steel vessels. Carbon steel vessels have epoxied interiors with aluminum deckplates.



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