

# Aviation Filter Vessels

## Qualified to EI1596 & EI1541

VFAP Series



VFAP2044150



VFAP814150

**VFAP Series** Aviation Filter Vessels differ from standard filter vessels. EI 1596 design requirements for jet fuel include: sloped deck plates, cartridge spacing, and spider plates. Consult our Micronic Filters for Aviation Fuel Handling catalog (VEL2159) to select the appropriate EI1590 cartridge for your application.

Filter vessels VFAP814 through VFAP844, such as the VFAP814150 shown at right, have through-bolt covers, NPT connections, and include fittings for drain, pressure gauge and air vent.

VFAP1614 and larger vessels, such as the VFAP2044150 shown at far right, are provided with swing bolt closure, RF flange connections and fittings for pressure gauge, air eliminator, pressure relief valve and drain valve.

### STANDARD DESIGN FEATURES

- ASME Code construction to any pressure
- Choice of micron rating: 1 & 5 microns
- Pleated cellulose media
- EI qualified epoxy coated interior, primed exterior
- Buna-N O-ring cover seals.
- 3° slope deck plate

### RECOMMENDED OPTIONAL ACCESSORIES

- Automatic Air Eliminator
- Pressure Relief Valve
- Differential Pressure Gauge
- Drain Valve(s)
- Sampling Probes
- ASME Code Stamp

## DIMENSIONS

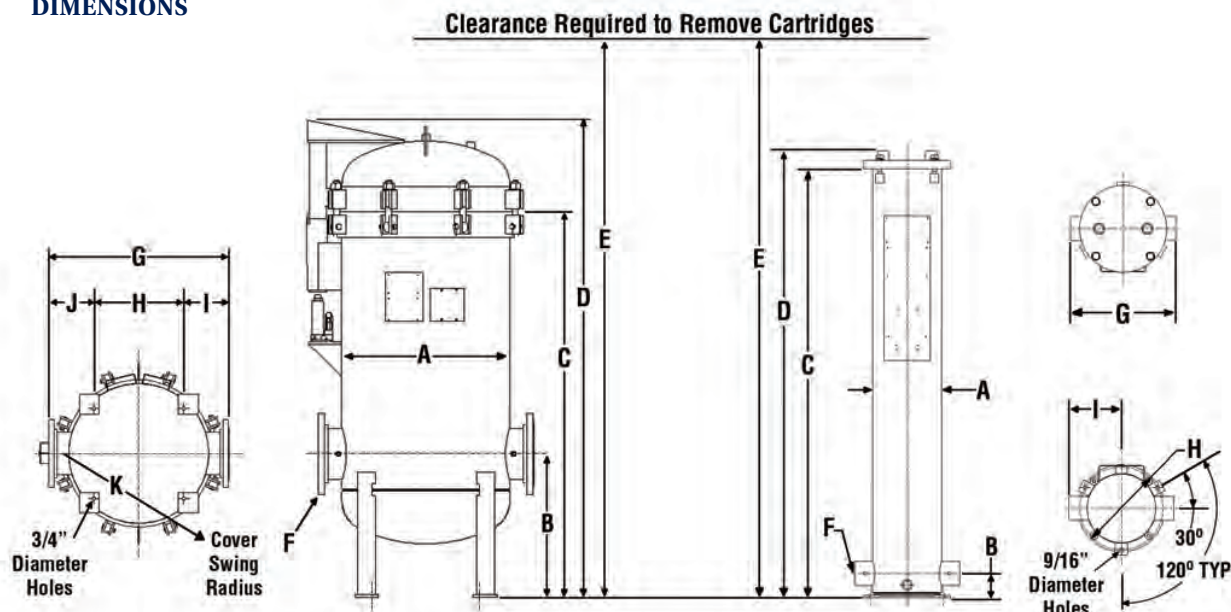


Figure 1

Figure 2

Vessel Model Number	Max. Flow US-GPM	FO Series		Fig. No.	Dimensions in Inches											Weight with Skid, lbs.	Volume U.S. Gallons
		Jet Fuel	Length		A	B	C	D	E	F	G	H	I	J	K		
VFAP814	50	14	1	2	8 <sup>5</sup> / <sub>8</sub>	3	24 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	39	2	13	10 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	-	-	225	5
VFAP829	100	29	1	2	8 <sup>5</sup> / <sub>8</sub>	3	39	41 <sup>1</sup> / <sub>8</sub>	68	2	13	10 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	-	-	265	8
VFAP844	150	44	1	2	8 <sup>5</sup> / <sub>8</sub>	3	57 <sup>1</sup> / <sub>16</sub>	59 <sup>7</sup> / <sub>16</sub>	101	2	13	10 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	-	-	305	11
VFAP1614	200	14	4	1	16	15	37 <sup>13</sup> / <sub>16</sub>	40 <sup>13</sup> / <sub>16</sub>	52	4	24 <sup>1</sup> / <sub>4</sub>	9	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	18 <sup>7</sup> / <sub>16</sub>	500	22
VFAP1629	400	29	4	1	16	15	52 <sup>13</sup> / <sub>16</sub>	55 <sup>13</sup> / <sub>16</sub>	82	4	24 <sup>1</sup> / <sub>4</sub>	9	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	18 <sup>7</sup> / <sub>16</sub>	560	35
VFAP1829	450	29	4	1	18	11	53	58 <sup>11</sup> / <sub>16</sub>	83	4	30	10 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>	580	42
VFAP2029	600	29	6	1	20	19 <sup>1</sup> / <sub>2</sub>	60 <sup>5</sup> / <sub>8</sub>	65 <sup>5</sup> / <sub>8</sub>	89	6	28	13	7 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	26	1000	67
VFAP2044	900	44	6	1	20	19 <sup>1</sup> / <sub>2</sub>	74 <sup>5</sup> / <sub>8</sub>	80 <sup>7</sup> / <sub>16</sub>	118	6	28	13	7 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	26	1100	88
VFAP2829	1200	29	12	1	28	24	48 <sup>1</sup> / <sub>2</sub>	64 <sup>1</sup> / <sub>4</sub>	77	8	36	18	9	9	35	1500	125
VFAP2844	1600	44	12	1	28	24	64 <sup>3</sup> / <sub>8</sub>	79 <sup>3</sup> / <sub>4</sub>	108	8	36	18	9	9	35	1600	165
VFAP3644	2700	44	18	1	36 <sup>5</sup> / <sub>8</sub>	26	63 <sup>3</sup> / <sub>8</sub>	84	109	10	48	23	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	44	2250	288
VFAP4244	4600	44	27	1	42 <sup>3</sup> / <sub>4</sub>	28	66	87 <sup>3</sup> / <sub>8</sub>	110	12	54	28	13	13	52 <sup>1</sup> / <sub>4</sub>	3800	400

1. Flow rates are for pleated paper cartridges. For higher viscosity fluids, consult your Parker AFD Representative.
2. VFAP Series Filters are designed to accommodate our standard 6 in. O.D., 3 1/2 in. I.D., 14 1/2 in. long cartridges that are stacked one, two, or three high. Many cartridges are available in longer lengths that eliminate stacking. For example, a 44 inch long FO-644PLF1M could be used in place of three 14 1/2 inch long cartridges. This makes for easier and less expensive changeouts.
3. A number of threaded base filter cartridges (e.g. FO-644PLF5TB) are available, which allow for easier cartridge changeout and removal of particulate matter from the deckplates. The threaded base cartridges mount on the 6000T Adapters.
4. Dimensions shown are for estimating purposes only. For exact dimensions, obtain certified drawing.
5. VFAP16 and VFAP20 Series vessels have flat covers. VFAP16 Series vessels do not have hydraulic lift jacks.