



# Compressed Air Purification

J E M A C O

**JEMACO**  
Flair Corp  
A JVC of SPX Corporation

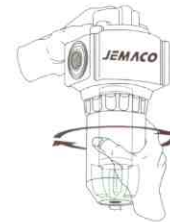
The JF Series features filters to fill every need. Choose one of the five filter, or link them together for specialized application.

## JF Series Feature

- Easy maintenance : drop in, snap up filter element
- Operational reliability : high quality components
- Energy saving : low pressure drop
- Problem free application : silicone free
- High Efficiency Coalescing (Type HF)  
HF provides high efficiency for removal of liquid and aerosol mists.
- Coarse Coalescing (Type PF)  
PF is designed for applications, which do not require high efficiency filtration. Also recommended as a pre-filter to prolong the life spans of high efficiency coalescing.
- Fine Particulate (Type DF)  
DF removes fine particulate material from the air stream. Particularly suited for use as a desiccant dryer after-filter.
- Vapor (Type CF)  
CF incorporate activated carbon to remove hydrocarbon vapors and trace organic contaminants and their associated smells and tastes.
- Coarse Particulate (Type GF)  
GF filters remove coarse particulate material from the air stream. Particularly suited for use as a pre-filter to coalesce.



Unique Snap-Lock element installation is the easiest in the industry.



Once the vessel is pressurized, the support ribs cast inside the bowl hold the element securely in place

## Technical data

Oil, dust, dirt and water, alone or in combination, these are the enemies that attack any compressed air system. These can plug orifices of sensitive pneumatic instruments, wear out seals, erode system components, reduce efficiency of air-operated tools, damage finished products and otherwise contribute to product rejects, lost production hours and rising maintenance costs. Although the best defense against oil and dirt is effective filtration, this fact is often overlooked until problem arise.

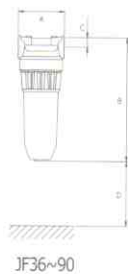
- JF Series coarse coalescing filter removes oil droplets and aerosol mist by combining multiple type of media into one element. Type HF/PF filters remove liquid and aerosol mists from the air stream through multiple layers of filtration media. Each layer removes progressively smaller contaminants while maintaining low pressure drop. The unique design of the element and housing create an area of higher-velocity air.
- Type DF filter is designed for use primarily as an after-filter in desiccant dryer systems, the particulate filter may also be effectively used to remove rust or particulate from compressed air. The type GF is also ideal for use as a pre-filter to coalescer.
- The vapor removal filters remove gaseous hydrocarbon and organic vapors, for final cleaning of air used in critical applications. Type CF filters will remove gaseous hydrocarbons that affect the smell and taste of compressed air.

Table 1. Filtration Efficiency

Model	Efficiency
GF	10 $\mu$ , 99.9%
PF	1 $\mu$ , 99.999%
HF	0.01 $\mu$ , 99.999%
DF	1 $\mu$ , 99.999%
CF	0.003ppm

Table 2. Standard Working Conditions

Conditions	Model	Minimum	Maximum
Inlet Pressure	GF, PF, HF, DF, CF 36K~750K	2barg	16barg
	GF, PF, HF, DF, CF 1080K~6000K	2barg	9.9barg
Operation Temperature	GF, PF, HF, CF	+2 $^{\circ}$ C	+55 $^{\circ}$ C
	DF	+2 $^{\circ}$ C	+70 $^{\circ}$ C



## Specifications

Model GF/PF/HF/ DF/CF	Flow Capacity (Nm <sup>3</sup> /min)	Inlet / Outlet Connections	Dimensions (mm)				Weight (kg)	
			A	B	C	D		
36K	2.00	PT 1/2"	94	258	23	90	0.92	
54K	3.00	PT 3/4"	94	258	23	120	0.92	
90K	5.00	PT 1"	94	370	23	120	1.09	
135K	7.50	PT 1-1/2"	130	332	32.5	150	2.30	
216K	12.00	PT 1-1/2"	146	477	34	180	4.39	
285K	15.83	PT 2"	165	434	37.5	180	4.66	
405K	22.50	PT 2"	165	627	37.5	180	6.51	
540K	30.00	PT 3"	207	762	55	200	11.05	
750K	41.67	PT 3"	207	892	55	200	12.50	
1080K	60.00	4" FLG	510	1076	190	485	186	
1500K	83.33	6" FLG	580	1248	222	650	247	
2250K	125.00	8" FLG	800	1410	282	650	271	
3000K	166.66	8" FLG	800	1410	282	650	275	
4500K	250.00	10" FLG	1000	1530	332	650	403	
6000K	333.33	12" FLG	1091	1700	455	650	641	
Filter Element			GF	PF	HF	DF	CF	
Initial Pressure Drop (Dry)			0.03	0.03	0.08	0.03	0.03	barg
Initial Pressure Drop (Wet)			-	0.14	0.19	-	-	barg
Element Change-Out at			0.40	0.40	0.40	0.40	-	barg
Color			Transparent	Green	Blue	Red	Silver	
Multiplier for different inlet pressures in barg								
barg	2.1	2.8	4.1	5.5	6.9	8.3	10.3	13.8
Multiplier	0.39	0.48	0.65	0.82	1.00	1.17	1.43	1.87