

# Replacement Cartridges for Vel-Max® Housings

O Series Coalescer and SO Separator Remove Water and Dirt from Diesel, Jet Fuel and Avgas

- Reduces free and emulsified water to less than 50 ppm in diesel, and less than 15 ppm in jet fuel/avgas.
- Used in place of Aquacon® cartridges for continuous removal of free water
- For use in the Parker Velcon Vel-Max® housings

## DESCRIPTION

Parker Velcon coalescer and separator are installed together in the Vel-Max® housing to remove water and dirt from fuel. The fuel passes from the outside to the inside through the coalescer. Dirt is filtered out of the fuel and free/emulsified water in fuel is coalesced. The coalesced water droplets, which form on the inside of the coalescer, are repelled from going further down-stream by the separator. The water settles down to the sump where it is manually drained.



O-81588 and SO-415VX5 Separator

## SPECIFICATIONS

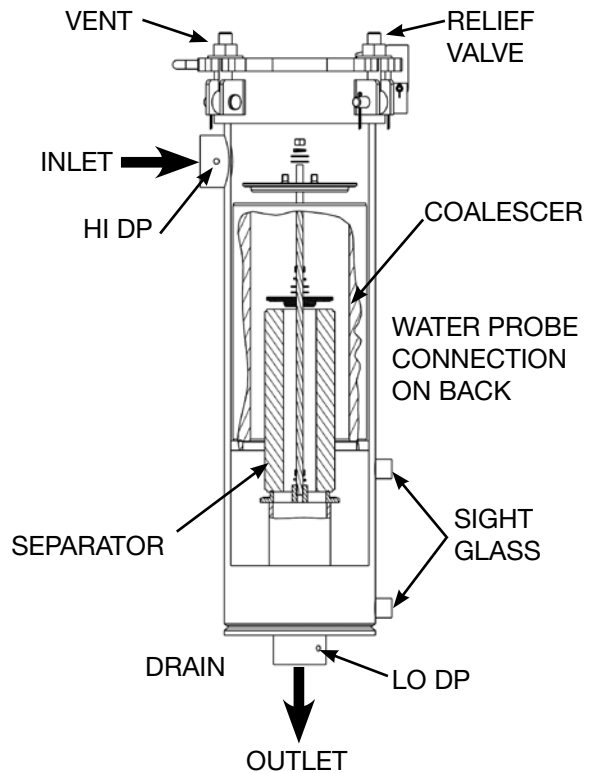
- Maximum Operating Temperature is 250°F (121.1°C)
- Flow direction: outside to inside
- pH range: 5 to 9
- Coalescer Changeout at 15 psid

## MAXIMUM RECOMMENDED FLOW RATES

Housing with Cartridges	Jet		Avgas		Diesel	
	gpm	lpm	gpm	lpm	gpm	lpm
VX-1	37	140	55	208	25	95
VX-2	75	284	100	378	50	189
VX-3	112	424	168	636	75	284

For more information on the Vel-Max® Filter Vessel please refer to data sheet VEL1961. Vel-Max® and Aquacon® are registered trademarks of Parker Hannifin.

## VEL-MAX® FILTER/SEPARATOR CONFIGURATION



**CARTRIDGE SELECTION TABLES FOR VEL-MAX® HOUSINGS**

**JET & AVGAS APPLICATIONS**

Model	Cartridge	Model #	Micron Rating	Dimensions (in.)		
				OAL	ID	OD
VX-1	Coalescer	O-81588	0.5	15.0	5.625	7.625
	Separator	SO-415VX5	N/A	15.0	1.875	4.0
VX-2	Coalescer	O-83088	0.5	30.0	5.625	7.625
	Separator	SO-430VX5	N/A	30.0	1.875	4.0
VX-3	Coalescer	O-84488	0.5	44.0	5.625	7.625
	Separator	SO-444C	N/A	44.0	1.875	4.0

**NOTES:**

1. If converting from Parker Velcon **Aquacon**® water absorbing cartridges to coalescer/separator cartridges, please order **Part Number EA35** end seal plate.
2. Separators used for jet fuel and avgas applications (SO-4xxVX5) are PTFE-coated and can be cleaned and re-used. See page 24 for cleaning and maintenance instructions.
3. Separators used for diesel applications (SO-4xxPL) are made with pleated media. Changeout at 15 psid.

**DIESEL APPLICATIONS**

Model	Cartridge	Model #	Micron Rating	Dimensions (in.)		
				OAL	ID	OD
VX-1	Coalescer	O-8150	25	15.0	5.625	7.625
	Coalescer	O-8152	5			
	Coalescer	O-8156	2			
	Separator	SO-415PL	N/A	15.0	1.875	4.0
VX-2	Coalescer	O-8300	25	30.0	5.625	7.625
	Coalescer	O-8304	3			
	Coalescer	O-8306	2			
	Separator	SO-430PL	N/A	30.0	1.875	4.0
VX-3	Coalescer	O-8440	25	44.0	5.625	7.625
	Coalescer	O-8444	3			
	Coalescer	O-8446	2			
	Separator	SO-444PL	N/A	44.0	1.875	4.0

For information on other types of Parker Velcon filter cartridges that can be used in the Vel-Max® Housing, see below and corresponding data sheet as marked.

Application Type		1-High	2-High	3-High
Micronic Filter Cartridges	Pleated Paper	FO-614PLFxx*	FO-629PLFxx	FO-644PLFxx
	Fiberglass Depth	FO-614FGxx	FO-629FGxx	FO-644FGxx
<b>Aquacon</b> ® Cartridges	Jet Fuel/Avgas	ACO-61401R	ACO-62901R	ACO-64401R
	Gasoline	AC-61405	AC-62905	AC-64405
	Diesel	AD-61425	AD-62925	AD-64425
CDF®	Jet Fuel	CDF-215P	CDF-230P	N/A



\*The suffix "xx" on the part number denotes the micron rating of the cartridge.  
 Example: FO-614PLF5 is a 5 micron filter.

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