



- Compact
- Flexible Filtration
- Multipurpose Design
- Simplified Maintenance

DESCRIPTION

The compact Vel-Max[®] Filter Vessel is suitable for flowrates up to 204 USGPM with micronic cartridges, up to 198 USGPM as a filter/separator, and up to 150 USGPM with CDF[®] monitor cartridges. The Vel-Max[®] can be used on mobile refueling equipment, fueling cabinets and for fixed fueling installations. Vel-Max[®] is designed for easy maintenance and easy conversion to a prefilter, filter/separator, or monitor.

APPLICATIONS

- Jet Fuel
- Avgas
- Diesel Fuel
- Biodiesel Blends
- Motor Gasoline
- Kerosene
- Turbine Lube Oil
- Insulating Oil

STANDARD FEATURES

- Carbon steel construction
- 250 psi design pressure
- · Epoxy powder coated interior & exterior
- 2" NPT female inlet/outlet
- 1/2 " NPT drain connection
- 3/4" NPT vent and relief connection
- 1/2" NPT sight glass connections
- 1" NPT water probe connection
- 1/8" NPT differential pressure gauge connections
- Lid Gasket: G-2052 (Buna N)



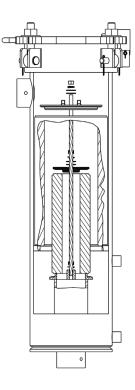
Vel-Max[®] Filter Vessel, VX-2, showing optional leg assembly, differential pressure gauge, sight glass assembly, and air eliminator.

OPTIONAL FEATURES

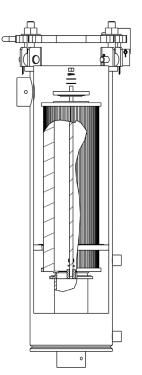
- Air eliminator
- Drain valve
- Pressure relief valve
- Water probe
- Sight gauge
- · Leg assembly with adjustable height
- ASME Code Stamp
- CE Mark
- Differential pressure gauge assembly
- Lid Gasket: G-2052V (Viton)

Vel-Max® Filter Vessel Configurations/Applications

Filter/Separator Configuration

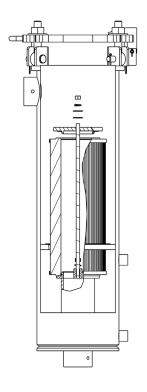


Vel-Max[®] Series for liquid/ liquid separation uses a 2-stage coalescer separator cartridge combination to remove free and emulsified water from a liquid product stream. The first stage coalescing cartridge provides filtration as well as coalescing of free and emulsified water. The second stage separator is a hydrophobic barrier designed to repel the coalesced water droplets. The water droplets will fall and collect in the sump for removal through the manual drain.

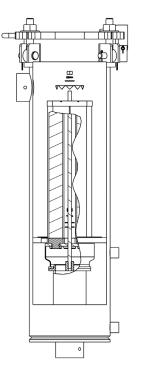


Vel-Max[®] Series for 6" or 6.25" OD x 2.625" ID cartridges can be used in several ways. To remove solid contaminants from a flow stream, use the vessel with a pleated media filter. When used with Aquacon® cartridges the Vel-Max® will remove solids and free water by absorption from a fuel or industrial oil flow stream. Using Vel-Max[®] with clay cartridges will remove surfactants, color and other impurities by adsorption from a fuel or industrial oil system.

6" OD x 3.5" ID Configuration



Vel-Max[®] Series with 6" OD x 3.5" ID cartridges can be used in two ways. To remove solid contaminants from a flow stream, use the vessel with a pleated media filter. When used with Aquacon[®] cartridges* the Vel-Max[®] will remove solid contaminants and free water by absorption from a jet fuel or aviation gasoline flow stream.



CDF® Monitor Configuration

Vel-Max[®] Series can be adapted to use 2" diameter CDF[®] type monitor cartridges* for removing solid contaminants and free water by absorption from jet fuel or aviation gasoline flow streams.

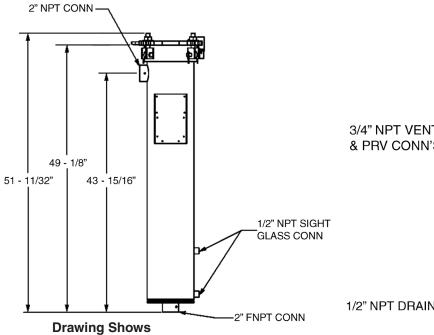
*CAUTION: Do not use *Aquacon*[®] or CDF[®] water absorbing monitor cartridges in pre-mixed jet fuel containing anti-icing additives (DiEGME, FIZZY[®], Prist[®], FSII)

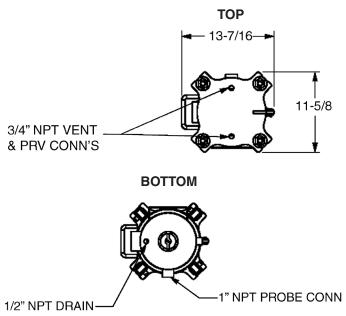
6" or 6.25" OD x 2.625" ID Configuration

Vel-Max® Filter Vessel Specifications

DIMENSIONS

Model	Height		Cover Width		Cover Length		Dry Weight	
	Inches	mm	Inches	mm	Inches	mm	lbs	kgs
VX-1	36	914	13 7/16	341	11 5/8	295	110	50
VX-2	51	1295	13 7/16	341	11 5/8	295	125	57
VX-3	66	1676	13 7/16	341	11 5/8	295	150	68





Drawing Shows Dimensions for VX-2

Dimensions shown are for estimating purposes only. For exact dimensional detail, obtain certified copy of vessel drawing.

FLOW RATES (USGPM)

CONFIGURATION	APPLICATIONS	VX-1	VX-2	VX-3
	TURBINE LUBE OIL (ISO 32, 100°F)	3.5	7.5	11.5
	INSULATING OIL (80°F)	6.1	13.5	20.0
FILTER / SEPARATOR	DIESEL FUEL	25	50	75
	GASOLINE / AVIATION GASOLINE	66	132	198
	JET FUEL / KEROSENE	50	100	150
	OILS	CONTACT FACTORY		RY
MICRONIC CARTRIDGES 6"	DIESEL FUEL	50	100	150
OD x 3.5" ID	GASOLINE / AVIATION GASOLINE	68	136	204
	JET FUEL / KEROSENE	66	132	198
AVIATION Aquacon® CARTRIDGES 6" OD x 3.5" ID	JET FUEL / KEROSENE	58	115	176
INDUSTRIAL MICRONIC &	OILS	CONTACT FACTORY		RY
Aquacon [®] CARTRIDGES 6" or 6.25" OD x 2.625" ID	DIESEL / GASOLINE / AV GAS / JET FUEL / KEROSENE	50	100	150
CLAY CARTRIDGES	INSULATING OIL	1	N/A	2
(LA-61801B)		7.5	IN/A	15
CDF [®] MONITOR CARTRIDGES	JET FUEL / KEROSENE / GASOLINE	75	150	N/A

Vel-Max® Cartridge Selection Table

CARTRIDGES

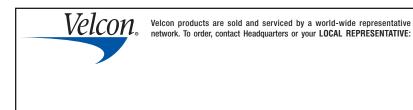
FILTER/SEPARATOR CONFIGURATION				
FIRST STAGE COALESCERS FOR:	MICRON RATING	VX-1	VX-2	VX-3
DIESEL FUEL	25	O-8150	O-8300	O-8440
DIESEL FOEL	3	O-8154	O-8304	O-8444
DIESEL FUEL / GASOLINE	2	O-8156	O-8306	O-8446
JET FUEL / KEROSENE / DIESEL FUEL / TURBINE LUBE OIL / INSULATING OIL	0.5	O-81588	O-83088	O-84488
SECOND STAGE SEPARATORS FOR:	ТҮРЕ	VX-1	VX-2	VX-3
DIESEL	PAPER	SO-415PL	SO-430PL	SO-444PL
JET / KERO / GAS / OILS	TCS	SO-415VX5	SO-430VX5	SO-444C
6" OD X 3.5" ID CONFIGURATION	ТҮРЕ	VX-1	VX-2	VX-3
	PLEATED PAPER	FO-614PLF <i>xx</i>	FO-614PLF <i>xx</i> (STACK OF 2)	FO-614PLF <i>xx</i> (STACK OF 3)
MICRONIC CARTRIDGES			FO-629PLF <i>xx</i>	FO-644PLF <i>xx</i>
MICHONIC CATTRIDUES	FIBERGLASS DEPTH	FO-614FGxx	FO-614FG <i>xx</i> (STACK OF 2)	FO-614FG <i>xx</i> (STACK OF 3)
			FO-629FGxx	FO-644FGxx
AVIATION Aguacon® CARTRIDGES*	ACO-61401L	ACO-61401L (STACK OF 2)	ACO-61405 (STACK OF 3)	
		ACO-62901L	ACO-64401L	
		AC-61405	A(C/D)-614xx	A(C/D)-614xx
INDUSTRIAL Aquacon® CARTRIDGES	[AD-61410	(STACK OF 2)	(STACK OF 3)
		AD-61425	AC-62905	AC-64405
6" OR 6.25" OD X 2.5625" ID CONFIGURA	ΓΙΟΝ	VX-1	VX-2	VX-3
	PLEATED PAPER (FO) &	FO-718PLxx		(FO/FOS)-718xx (STACK OF 2)
		FOS-618PLxx]	
	PLEATED SYNTHETIC (FOS)			FO-736PLxx
MICRONIC CARTRIDGES		F03-718PLXX		FOS-636PLxx
	FIBERGLASS DEPTH	FO-618FGA <i>xx</i>	N/A	FO-618FGAxx (STACK OF 2)
				FO-636FGAxx
INDUSTRIAL Aquacon® CARTRIDGES	AC-718 <i>xx</i>		AC-718xx (STACK OF 2)	
•			AC-736xx	
CLAY (FULLER'S EARTH) CARTRIDGES	LA-61801B	1	LA-61801B (STACK OF 2)	
CDF® MONITOR CONFIGURATION	VX-1	VX-2	VX-3	
CDF [®] CARTRIDO	CDF-215N	CDF-230N	N/A	

HARDWARE KITS

The suffix "xx" on the part number of cartridges denotes the micron rating of the cartridge. Contact Velcon Filters, LLC for available micron ratings.

CONFIGURATION	VX-1	VX-2	VX-3
FILTER / SEPARATOR (COALESCER + SEPARATOR)	VX1-FSKIT	VX2-FSKIT	VX3-FSKIT
6" OD X 3.5" ID CARTRIDGE(S)	VX1-AVKIT	VX2-AVKIT	VX3-AVKIT
6" OR 6.25" OD X 2.5625" ID CARTRIDGE(S)	VX1-INKIT	N/A	VX3-INKIT
CDF® MONITOR CARTRIDGES	VX1-CDKIT	VX2-CDKIT	N/A

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MANUFACTURING PLANTS LOCATED AT: Colorado Springs, Colorado Sylacauga, Alabama Henryetta, Oklahoma

OFFICES AND AFFILIATES IN: Canada, Germany, Singapore, & Spain





Liquid Filtration and Separation Specialists

Due to Velcon Filters' continuing product improvement, drawings, specifications and pictures are subject to change without notice.