

PARTICULATE AND COALESCING FILTRATION

Kaydon designs and manufactures oil and fuel filtration vessels applicable for almost any low-pressure hydrocarbon filtration application.

The Model 980 and 981 are durable and robust inline pressure or return line (1,200 psig maximum) filter assemblies used for oil and fuel filtration applications. The Model 980/981 vessels are suitable for use with hydraulic systems used in small industrial hydraulic power units, small lube systems, and diesel fuel transfer where larger filtration assemblies are not practical. The Model 980/981 series is a substitute for spin-on type filters where extra protection and a more rugged design are desired.

The Model 111 and Model 112 oil and fuel filtration filter vessels are designed to offer a cost-effective solution for general purpose industrial oil and fuel filtration applications. The vessels are constructed of aluminum, making them lightweight and easy to install, yet rugged and durable to withstand corrosive environments. The Model 111 and Model 112 filtration vessels provide an economical solution for general purpose oil and fuel filtration applications.

The Model V-618 and V-636 oil and fuel filtration filter vessels are engineered to offer a high quality solution for industrial oil and fuel filtration applications. The V Vessels are rugged, heavy-duty, carbon steel constructed. The Model V vessels are designed to provide oil filtration or fuel filtration for a wide range of industrial applications.

The VKS Vessel family of filtration vessels are all carbon steel construction and designed to the latest edition of the ASME pressure vessel code. VKS filtration vessels are designed for in-line flow applications where a heavy-duty design, rugged construction, and long-term durability are required. Operating conditions, such as repeated shock and vibration, do not affect the filtration element or its secure seating.



V-618 and V-636 Oil and Fuel Filter Vessels

The Model V oil and fuel filtration filter vessels are designed to offer a high-quality solution for industrial oil and fuel filtration applications. The V Vessels are rugged, heavy-duty, carbon steel constructed. The lid is designed with swing eye-bolts for simple and easy removal so that elements can be changed out quickly. The V vessel element seal design prevents fluid by-pass by providing element alignment in addition to secure sealing. The V style knife-edge seal digs into the element flat gaskets to create a tight, no-bypass seal for the top and bottom of the element.

The Model V vessels are designed to protect components in oil systems and guard against contamination entering diesel engines through the fuel. The Model V vessels can be used to provide oil filtration or fuel filtration for a wide range of industrial applications:

Applications

Power Plants –	turbine oil, gear oil, and diesel fuel
Pulp and Paper Mills –	paper machine oil and hydraulic oil
Steel and Aluminum Mills –	rolling mill lube system oil, gear oil, hydraulic oil, and cutting oil
Marine –	engine oil and diesel fuel
Mining –	crusher lube system oil and diesel fuel
Refinery and Chemical Plants –	compressor and turbine oil
Fueling Terminals –	diesel fuel
General Industry –	industrial oils and diesel fuel

Features

User-friendly lid with swing eye-bolts designed for quick, simple and easy removal

Simple, secure element alignment and sealing design

Benefits

Equipment protection in oil or diesel fuel applications

Protects critical components and guards against harmful contamination



Specifications and Details

System Pressure / Temperature	150 PSIG / 10.3 BAR at 250° F / 121° C (maximum)			
Environmental Parameters	Minimum Ambient Temperature: 0° F / -17° C Maximum Ambient Temperature: 120° F / 49° C			
Materials of Construction	Metals: Carbon Steel Elastomers: Viton Exterior Paint: Epoxy Interior Coating: Epoxy			
Inlet/Outlet Connections	Type: 2" NPT			
Fluid Compatibility	Mineral base oils and fuels (diesel #1 and #2)			
Performance ¹	Particulate: ISO Cleanliness Codes			
	Model	ISO	Model	ISO
	KF60XX-05	15/13/11	KM60XX-02	15/13/10
	KF60XX-5	18/16/13	KM60XX-05	15/13/11
	KF60XX-10	19/17/14	KM60XX-2	16/14/12
	KF60XX-25	19/18/15	KM60XX-3	16/15/13
	KQD60XX-5	18/16/13	KM60XX-8	18/17/14
			KM60XX-15	19/18/15
Weight (approximate)	V-618: 85 lbs / V-636: 120 lbs			
Dimensions (approximate inches)	V-618: 11 L x 11 W x 28 H V-636: 11 L x 11 W x 46 H			
Vessel Lid Seal ²	A629015 (Model V-618 and V-636)			

Element Selection for Model V-618

Description	Element
General Purpose Oil or Fuel Filtration	KF6018-05 KF6018-5 KF6018-10 KF6018-25
Critical Purpose Oil or Fuel Filtration	KM6018-02 KM6018-05 KM6018-2 KM6018-3 KM6018-8 KM6018-15
Water Absorption from Oils or Fuels	KQD6018-6NS (max flow for KQD6018-6NS: 15 gpm with ISO 32 oil)

Element Selection for Model V-636

Description	Element
General Purpose Oil or Fuel Filtration	KF6036-05 KF6036-5 KF6036-10
Critical Purpose Oil or Fuel Filtration	KM6036-02 KM6036-05 KM6036-2 KM6036-3 KM6036-8 KM6036-15
Water Absorption from Oils or Fuels	KQD6036-6NS (max flow for KQD6036-6NS: 30 gpm with ISO 32 oil)

1. As measured with in-line automatic particle monitor calibrated to ISO 11171 and influent no greater than ISO 19/18/16

2. Required for element changes.

All design specifications are subject to change without notice.