



Oil and Fuel Filter Vessels

Model VKS-1 and VKS-2

The Model VKS oil and fuel filtration filter vessels are designed to offer a high quality solution for industrial oil and fuel filtration applications. The VKS Vessels are rugged, heavy-duty, carbon steel constructed, and designed and built per ASME Code. The Model VKS vessels are designed to provide oil filtration or fuel filtration for a wide range of industrial applications. The Model Model VKS vessels can be used in the following industrial applications:

- Power Plants – turbine oil, gear oil, and diesel fuel
- Pulp & 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



BENEFITS

- ASME Code Construction: Using the trustworthy ASME Code design criteria, the Model VKS vessels are built for reliable and long term use in any industrial environment.
- Equipment Protection: The Model VKS vessel can be used in oil or diesel fuel applications
- Oil - Protects components in your oil system
- Diesel Fuel - Guards against contamination entering your diesel engine.
- Simple, Secure Element Alignment and

Sealing Design: The element standpipe design prevents fluid by-pass by providing element alignment in addition to secure sealing with the single piece element hold-down tool. In addition, the single piece element hold-down tool allows for quick element replacement.

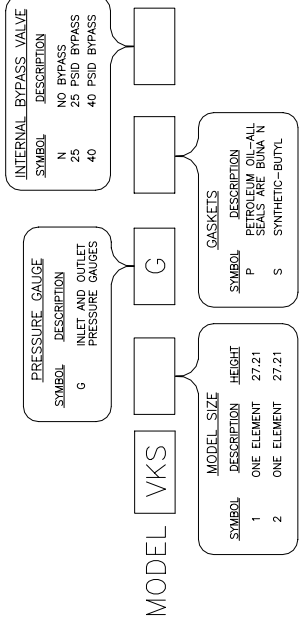
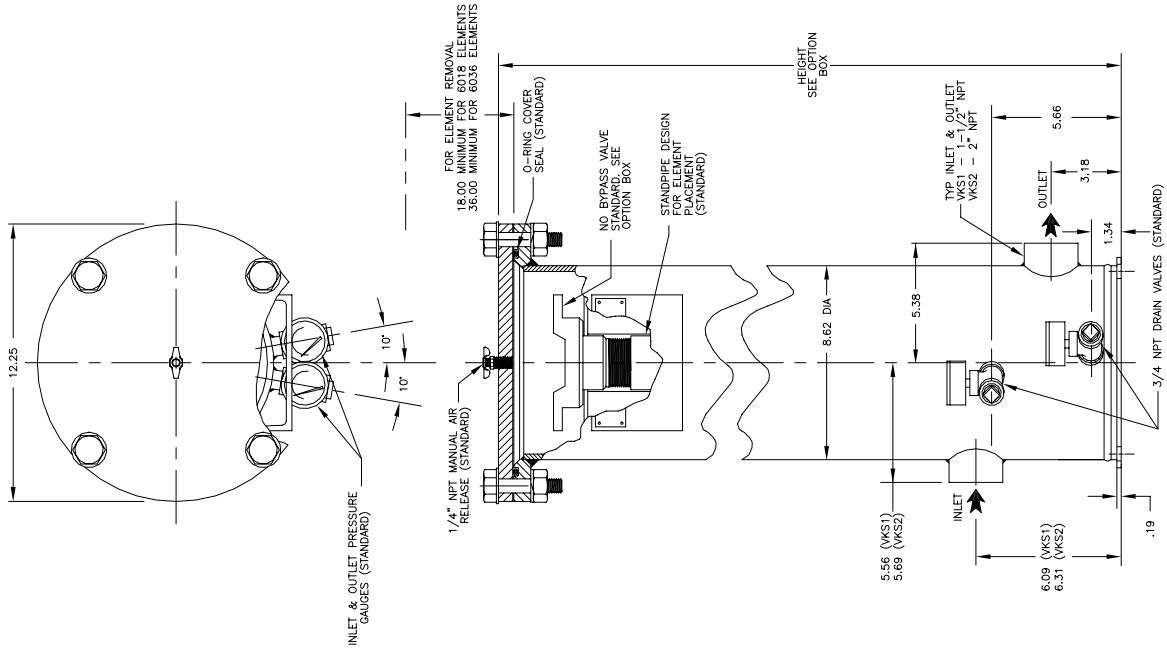
- Pressure Drop Information (Diesel Fuel # 2):
 Model VKS-1 with KM6018-2 at 50 gpm = less than 3 psid
 Model VKS-2 with KM6036-2 at 100 gpm = less than 4 psid



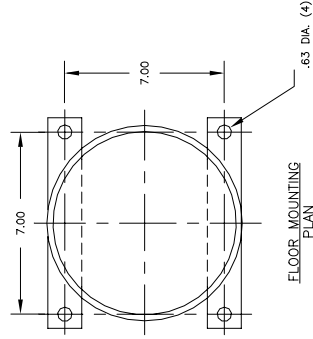
SPECIFICATIONS & DETAILS	
Pressure and Temp.	150 PSIG (10.3 BAR) at 250 F (121 C) ASME Code Section VIII, Div. 1, "UM" Stamp
Environmental Parameters	Minimum Temperature: 0 F (-17 C) Maximum Temperature: 120 F (49 C)
Materials of Construction	Metals: Carbon Steel / Bronze Elastomers: Viton Exterior Coating: Acrylic Urethane Enamel Interior Coating: Rust Preventative
Inlet/Outlet Connections	VKS-1: 1.5 inch NPT VKS-2: 2 inch NPT
Fluid Compatibility	Mineral Base Oils and Fuels (diesel # 1 and #2)
Weight	VKS-1: 100 lbs (46 kgs) / VKS-2: 130 lbs (59 kgs)
Dimensions	VKS-1: 12.25 inches L x 12.25 inches W x 28 inches H (312 mm L x 312 mm W x 715 mm H) VKS-2: 12.25 inches L x 12.25 inches W x 46 inches H (312 mm L x 312 mm W x 1170 mm H)
Element Selection Model VKS-1	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 Fuel: KQD6018-6NS (max. flow for KQD6018-6NS: 15 gpm with ISO 32 oil)
Element Selection Model VKS-2	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 Fuel: KQD6036-6NS (max. flow for KQD6036-6NS: 30 gpm with ISO 32 oil)
Performance ⁽¹⁾	ISO Cleanliness Codes: KF60XX-05 - ISO 15/13/11 KF60XX-5 - ISO 18/16/13 KF60XX-10 - ISO 19/17/14 KF6018-25 - ISO 19/18/15 KQD60XX-5 - ISO 18/16/13 Water Removal to less than 200 ppm ISO Cleanliness Codes: KM60XX-02 - ISO 15/13/10 KM60XX-05 ISO 15/13/11 KM60XX-2 - ISO 16/14/12 KM60XX-3 - ISO 16/15/13 KM60XX-8 - ISO 18/17/14 KM60XX-15 - ISO 19/18/15
Vessel Lid Seal ⁽²⁾	A628009 (Model VKS-1 and VKS-2)

OPTIONS			
Descriptions			
150 # RF Flange Connections	Differential Pressure Device <i>DP Gauge (switch optional)</i>	Automatic Air Release	"U" Stamp
By-Pass Valve (15, 25, or 40 psid)			

FOOTNOTES: (1) As measured with inline automatic particle monitor calibrated to ISO 11171 and influent no greater than ISO 20/19/16 (2) Required for element changes.



- NOTES:**
- DESIGN PRESSURE: 150 P.S.I. AT 250°F.
 - HYDROSTATIC TEST PRESSURE: 225 P.S.I.
 - INTERIOR FINISH --- RUST PREVENTATIVE.
 - EXTERIOR FINISH --- KAYDON BLUE LAQUER PAINT.
 - UNIT SHIPPED WITH ALL OPEN CONNECTIONS PROTECTED WITH UNITS PROTECTORS.
 - VESSEL IS ALL CARBON STEEL DESIGNED, CONSTRUCTED, AND LABELED IN ACCORDANCE WITH PARAGRAPH UW-12(C) OF THE LATEST A.S.M.E. CODE SECTION VIII.
 - UNIT SHIPPED WITHOUT ELEMENT. NO INTERNAL BYPASS VALVE AVAILABLE.
 - VOLUME: APPROXIMATELY 6 GALLONS - VKS1, 10 GALLONS - VKS2.
 - DRY WEIGHT: APPROXIMATELY 100 LBS - VKS1, 130 LBS - VKS2.
 - ALL KAYDON 6018 ELEMENTS (AND FORMER 718 SIZE FIT VKS1 HOUSING, ALL KAYDON 6018/6036 ELEMENTS (AND FORMER 718 SIZE FIT VKS2 HOUSING.



REV.	DATE	BY	CHKD.	DESCRIPTION
G	13270			REDRAWN ON CAD
				MK 3-76-93
				BY DATE
TOLERANCE UNLESS SPECIFIED DIMENSIONS ARE IN INCHES				
KAYDON CORPORATION				
1111 W. 11TH AVENUE, DENVER, CO. 80202-2299				
FORMER	DATE	BY	CHKD.	DESCRIPTION
	7-8-83			FILTER VESSEL ASSEMBLY
REV.	DATE	BY	CHKD.	DESCRIPTION
				VKS1 & VKS2
KAYDON CORPORATION				
1111 W. 11TH AVENUE, DENVER, CO. 80202-2299				
FORMER	DATE	BY	CHKD.	DESCRIPTION
				SD510110
REV.	DATE	BY	CHKD.	DESCRIPTION
				SD510110