# VKS Series
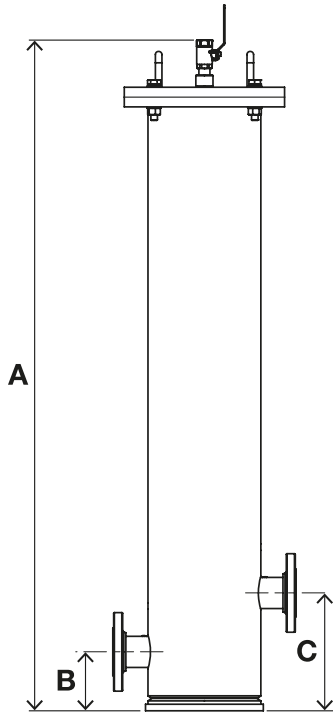## Particulate Removal Vessels

**DIESEL PURIFICATION SYSTEMS**



### Particulate Filtration

Designed and built to ASME Section VIII standards, the VKS fuel filtration filter assemblies provide rugged, code-compliant filtration performance for applications requiring certified pressure vessels. Ideal for regulated environments, it includes inlet/outlet gauges, a Coast Guard-compliant configuration, and ships with a high-efficiency Kaydon filter element.

| Model # | Target Flowrate | | Approx. Dimensions (in)[2] | | | | Approx. Weight (lbs) | | Inlet / Oulet Connections | Element Quantity |
|---------|-----|-----|----|-----|----|----|------|------|-----------|----------|
| | GPM | LPM | A | B | C | Ø | Dry | Full | | |
| VKS-1[5] | 50 | 189 | 33 | 3.5 | 8.5 | 9 | 150 | 225 | 1.5" | 1[3] |
| VKS-2[5] | 100 | 378 | 51 | 4.5 | 9 | 9 | 200 | 300 | 2" | 1 |
| VKS-6[5] | 300 | 1135 | 59 | 5 | 10 | 16 | 600 | 875 | 3" | 3 |

| Specifications | |
|---|---|
| Fluid Compatibility | #2 Diesel Bio-Diesel Blends (< B20) Hydrotreated Vegetable Oil (HVO) |
| Max Design Flow Rate[1] | 300 gpm / 1135 lpm |
| Design Pressure | 150 psi / 10.3 Bar |
| Materials of Construction | Carbon Steel or Stainless Steel |
| Exterior Coating | C4 Classification Paint (ISO 12944) |
| Interior Coating | Epoxy |
| Vessel Design | ASME Sec. VIII, Div. I U-Stamped |
| Inlet/Outlet Connection | Flanged or NPT |
| Pressure Gauge Ports | ¼" NPT |
| Drain Ports | ¾" NPT |
| Performance (Single-Pass) | ISO Cleanliness: tbd |

| Elements | | | | |
|---|---|---|---|---|
| PN | Ø (in) | Length (in) | $\beta_\mu \geq 1000$ | ISO Cleanliness |
| KM6036-3 | 6 | 36 | 7.1 | 18/16/13 |
| KM6036-02 | 6 | 36 | 4.2 | 15/13/11 |

### Optional Features

- Automatic Air Relief Valve
- Automatic Pressure Relief Valve
- Pressure Gauges (pre-installed or shipped loose)
- Elements pre-installed
- Higher design pressures and flow rates available upon request
- Non-Stamped (U) Vessels available to ship from stock[4]

1. For Bio-Diesel blends, flowrates and performance may be reduced. Contact Kaydon for more detail
2. Actual dimensions to be confirmed with customer approval drawing
3. Uses single 6" x 18" element
4. Available in 50 gpm and 100 gpm.
5. Non-ASME vessel weights and dimensions may vary. Contact Kaydon for more detail