

Kidney Loop - Compact

Introduction

Schroeder's series of Kidney Loop- Compact (KLC) filters are designed to filter highly contaminated hydraulic oils efficiently and cost effectively offline. The KLC is designed for use containing up to 100 gallons and is perfect for retrofit situations when additional filtration is required. This compact filter is easy to install and ideal for gear boxes. They are supplied as ready to install offline unit complete with pump/motor assembly.



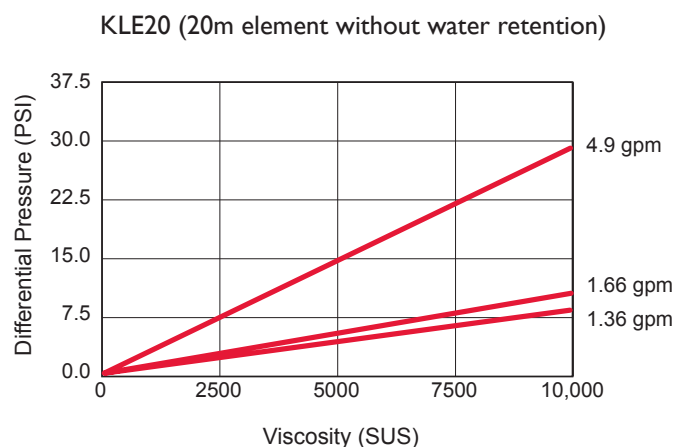
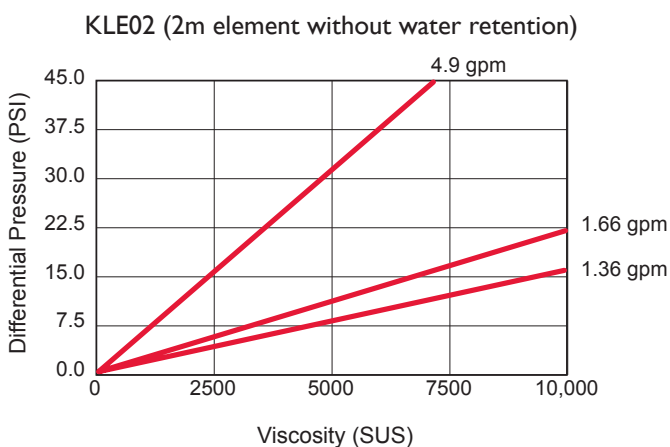
Features and Benefits

- Lower operating costs
- Extended element service life
- Extended fluid life
- Cleaner and more efficient systems
- Incinerable elements
- Easy Installation
- High dirt holding capacity
- Require low volume of oil

Applications

- Injection molding machines
- Machine tools
- Gear boxes
- Mobile equipment
- Filtration of fluids for intermittently operated hydraulic systems and test stands

Pressure Drop Curves



Schroeder
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Specifications

Operating Range

Viscosity:
 KLC04 to 10,000 SUS
 KLC05 to 700 SUS
 KLC15 to 3,000 SUS

Operating Pressure: 45 psi (3 bar) max.

Suction Pressure: 11" Hg (-0.4 to 0.6 bar) max

Fluid Temperature: 32 to 175° F (0 to 80° C)

Ambient Temperature: -4 to 104° F (-20 to 40° C)

Seals: NBR (standard)

Maximum Flow Rate:

KLC04 1.3 gpm
 KLC05 1.6 gpm
 KLC15 4.9 gpm

Fluids: Standard Mineral Oils, Water/Oil Based Fluids (min. 40% oil in fluid), Consult Factory for Other Fluids

Element

Media Dimicron With or Without Water Removal Capability - (2µm, 20µm)

Dirt Holding Capacity 200g ISO MTD (N5DM...) / 185g ISO MTD (N5AM...)

Water Retention Approximately 0.5 quarts (0.5 liters)

Beta Ratio $\beta_x > 1000$

Maximum ΔP 45 psi (3 bar)

Connections with pump/motor

KLC04 Inlet & Outlet: SAE 16 (BSPP G1)
 KLC05 Inlet & Outlet: 3/4 SAE 8 (BSPP G1/2)
 KLC15 Inlet & Outlet: SAE 8 (BSPP G1)

Weight

KLC04 24.3 lbs (11.0 kg)
 KLC05 15.5 lbs (7.0 kg)
 KLC15 24.3 lbs (11.0 kg)

Note: SAE connections when using supplied adapters; BSPP connections when supplied adapters are not used. Housing drain standard on all models.

Model Number Selection

Model	Pump Type	Voltage	Element	Indicator
KLC04 KLC15	V= Vane Pump	1= 12VDC 2= 24VDC 3= 115V single phase 4= 220V single phase 5= 220/440V 3 phase	2= 2 micron 20= 20 micron A02= 2 micron w/ water removal A20= 20 micron w/ water removal	F= Static Electrical Switch VD= Differential Visual ED= Differential Electrical EVD= Differential Visual/Electrical
KLC05	V= Vane Pump F= Flow Control Valve (pump & motor not included)	1= 12VDC 2= 24VDC 3= 115V single phase 4= 220V single phase 5= 220/440V 3 phase	2= 2 micron 20= 20 micron A02= 2 micron w/ water removal A20= 20 micron w/ water removal	G= Standard Gauge F= Static Electrical Switch

Example: KLC04-V-3-20-VD