



KayMax[®] 9020 and 9021 Series High Efficiency Filters

Kaydon Filtration knows what it takes to keep your lubrication oils, hydraulic oils, and fuels clean and your critical machinery in service. Pulp & Paper, Power Generation, Mining, Oil & Gas, Heavy Equipment, and Military are just a few of the critical markets we have protected and kept fit for duty.

KayMax[®] filters use an inert, fixed pore, impregnated fiber matrix media for maximum strength and increased dirt capacity. Our media represents the latest state-of-the-art construction technology. These high efficiency elements are integrated with upstream support layers and downstream drainage layers for pleat strength, geometric rigidity, and maximum dirt capacity for industry leading reliability. KayMax elements provide consistent performance from initial installation to their rated terminal pressure drop in accordance with stated ISO standards.



KayMax High Efficiency Filters :

- **Resistant to Severe Operating Conditions**
- **Reliable and Consistent Performance**
- **Lower Maintenance Costs**
- **Extend Service Life**

KayMax High Efficiency High-Pressure Filters:

- **Reinforced Media Side Seam**
- **Reinforced Media Pleat Block**
- **High Strength Center Tube**
- **Heavy Duty Machined End Caps**

KayMax High Efficiency Filters

Meet or exceed OEM requirements
ISO 9001:2008 Design, Manufacturing, and Quality Management System
ISO 2942 Fabrication Integrity
ISO 16889 Multi-Pass Performance Efficiency
ISO 2943 Fluid Compatibility
ISO 3724 Flow Fatigue
ISO2941 Collapse Resistance

Specifications

Micron Ratings and Filtration Efficiency:

1 μ m, 3 μ m, 6 μ m, 12 μ m, or 25 μ m
 $b_x=200$ (ISO 4572)
 $b_{x(c)}=1000$ (ISO 16889)

O-Ring Seal:

Nitrile (B) (-45°F to 225°F)
Fluorocarbon (V) (-20°F to 250°F)

Element Capacity and Construction:

9020—Standard Capacity

Inert Fixed Pore Media
Epoxy Coated Wire
Endcap and Center Tube: Corrosion Protected Steel

9021—High-Pressure

Inert Fixed Pore Media - Polymer Support
Endcap: Machined Corrosion Protected Steel
Center Tube: Welded Heavy Duty Spiral

Element Dimensions

1.77" (4.4958 cm) Diameter x Length:

Available Lengths:

4 = 4" (10.160 cm)

8 = 8" (20.320 cm)

Collapse Pressure

9020 \geq 150 psid (10 bar)

9021 \geq 3000 psid (208 bar)

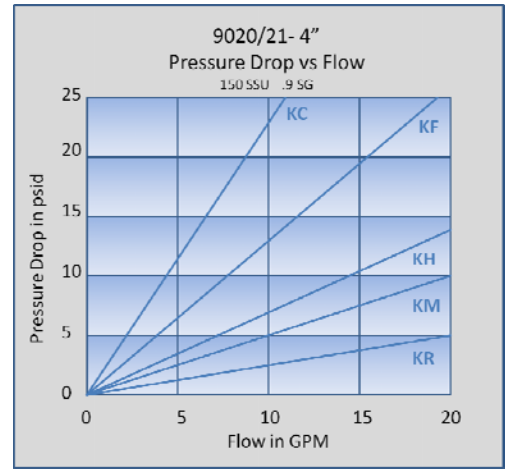
Fluid Compatibility (ISO 2943)

Petroleum oils, water glycols, water-oil emulsions with nitrile seals.

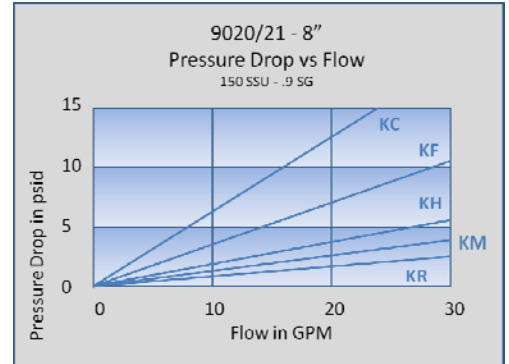
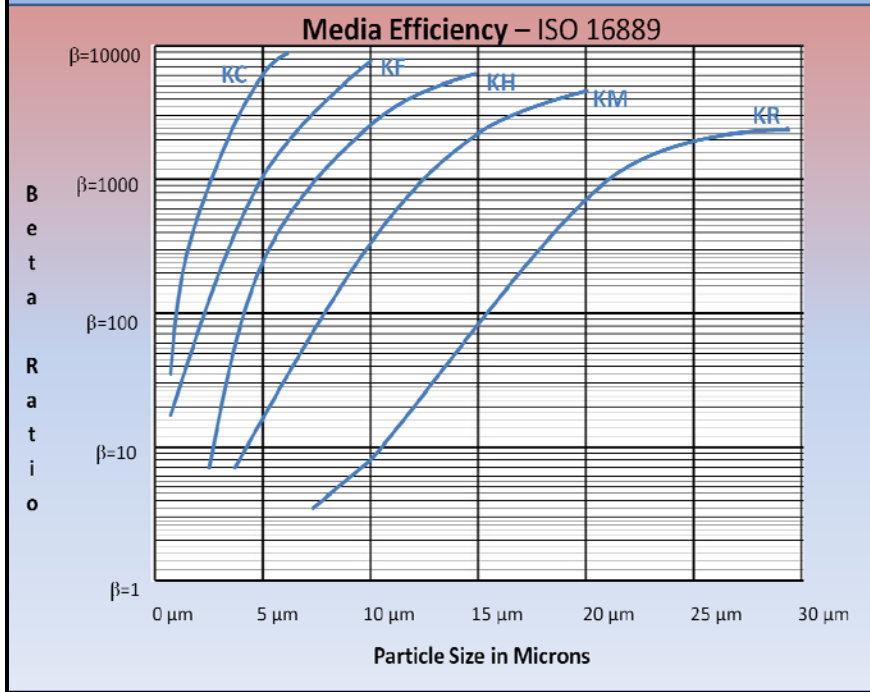
Phosphate esters, diesters, and many other synthetic fluids with fluorocarbon seals.

KayMax® Filter Media Efficiency Table

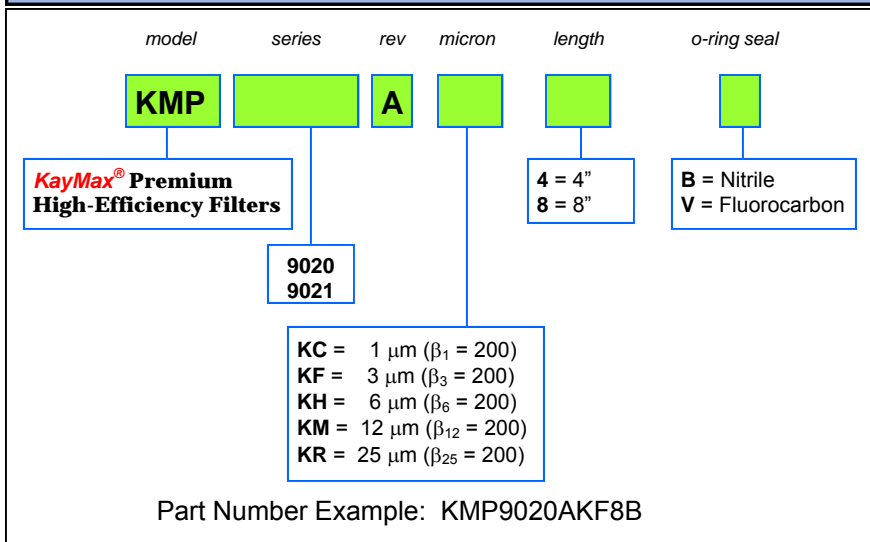
Filter Code	ISO 4572	ISO 16889			
	B _x =200	B _{x(c)} =2	B _{x(c)} =10	B _{x(c)} =200	B _{x(c)} =1000
KC	1	<2	<2	2	2.5
KF	3	<2	<2	3.8	5
KH	6	2.1	3.4	5.7	7
KM	12	3.2	5.5	9.7	12
KR	25	7.2	11	18.2	22



KayMax® Filter Media Beta Ratio Curves



KayMax® 9020/9021 Filter Part Number Structure



Data tables and graphs may have interpolation and/or rounding variances. Specifications are subject to change and/or revision without notice.

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