UHM series

Description:

UHM series large-flow foldable filter core adopts a large diameter structure of 6.5 inches, with extremely high filtration area. The fluid flows from inside to outside and adopts the gradient filter structure from coarse to fine. The filter aperture gradually decreases along the direction of fluid movement, and the particles with different particle sizes are intercepted by stratification, which has a high pollution capacity and flow resistance, ensuring that all impurities are trapped inside the filter core. The filter elements of this series are the same size as those of 3M's high-flow filter elements. With good high temperature resistance and wide chemical compatibility, the filter and filter system has the advantages of high flow, small size and low investment. The inner and outer skeletons are reinforced with polypropylene to enhance the strength of the filter core, prevent deformation of the filter material and facilitate the replacement of the filter core. The inner filter core is made of polypropylene, and the end cover and filter layer are welded by hot melt. There is no adhesive present. The filter core will not cause secondary pollution to the filter separation medium during the whole process of use.

Feature：

High contamination, Long service life

Integral skeleton, Low weld gap, High degree

The filter system size can be reduced by 50%

The flow direction from inside to outside ensures that all impurities are trapped inside the filter

The deep filter of the polypropylene fiber of the gradient aperture is gradually smaller along the direction of the fluid movement, and the particle of different particles of different particle sizes is layered, so it has excellent discharge pollutant ability and low flow resistance

Sealing interface design reduces the risk of side flow and improves the filtering efficiency

The filtration membrane is not affected by fluid pressure fluctuation

Wide chemical compatibility, low pressure difference, large flow flux

The range of filtration accuracy is wide, the degree of selection is large, and it can satisfy various applications

Application field:

General purpose： Reverse osmosis system prefiltration, purification treatment of water for various processes

General industry: various process fluids, process water, condensate, cooling water, wastewater treatment

Microelectronics industry: pre-filtration of deionized water

Food and beverage industry: process water, etc

Chemical/petrochemical industry: various acids, bases, solvents, cold water, salt water and other chemicals

Power plant: remove iron filter element, supply water, condensation water, cooling water, etc

Technical parameters：

Outer diameter	6.5〃（165mm）
Filter area	7m2/40〃
Sealing ring material	Silicone rubber, Nitrile rubber, Ethylene propylene rubber
The filter material	Pure polypropylene
Support materials	Thermosetting polypropylene non-woven material
Filtration precision（μm）	0.5,1,5.10,20,40
Entrapment efficiency	99.9%
Filter length	20〃,30〃,41〃,61〃
Interface adaptation code	226, standard
Internal skeleton material （Center pole）	Enhanced polypropylene

End cover material	Enhanced polypropylene
External skeleton material (shell)	Enhanced polypropylene
Maximum run temperature	70℃
Maximum operating pressure differential	3.44bar
Recommended pressure differential for filter element replacement（20℃）	3.0bar
Maximum filtration（m3/h）	40〃Filter is 80

Order information:：

Series no.	Core diameter	Filter material	Filtration precision	Filter length	Sealing ring material	Seal ring type
UHM	6.5〃	PP	0050=0.5μm 0100=1μm 0500=5μm 1000=10μm 2000=20μm 4000=40μm	20=20〃 30=30〃 41=41〃 61=61〃	S=silicone rubber E=ethylene propylene rubber	M6=226 S=standard