



Ez-Change™  
Capsule Filter Cartridge

# WK Type

## Major Applications

- Coating liquids
- Slurry
- Ink
- Paste

## Related Videos (YouTube)

Click on the QR code to watch the video on You Tube.



Ez-Change introduction video

### Features

- Polypropylene capsule filter for easy replacement
- Built-in check valve
- Minimum hold up volume
- Air venting mechanism at downstream
- Can be dismantled for liquid recovery.

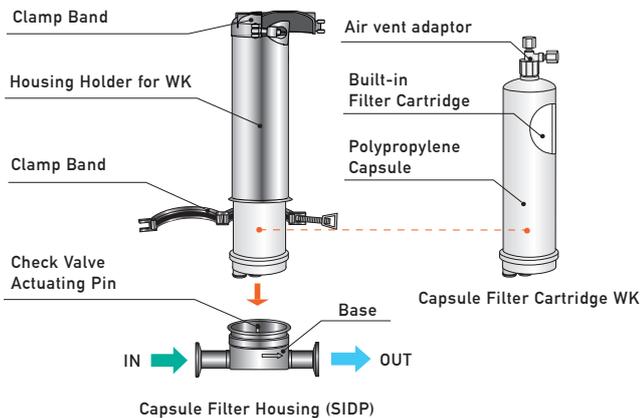
### Advantages

- Significantly reduces operation time
- Liquid is confined, limits exposure.
- Minimal dripping
- Reduction of liquid loss
- Reduction of initial outflow bubbles
- Collection of liquid remaining inside the capsule is possible.

### Structure

	Number of Built in Filters	Air vent	Length of built-in filter cartridge			
			62.5	125	250	500
X B	1pc	-	○	○	○	○
A D	1pc	Upstream	○	○	○	○
W K	1pc	Upstream + Downstream	○	○	○	○
X W	7pcs	-		○	○	○
A W	7pcs	Upstream		○	○	○

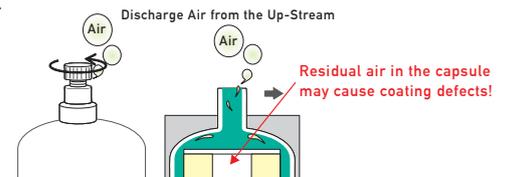
## Internal structure



- The WK capsule can be dismantled using a special jig, making it possible to collect the used liquid remaining inside the capsule and dispose of it separately. (Disassemble design)
- By connecting a tube or other piping to the vent section, residual liquid can be collected during air venting. This prevents air leakage during operation and contributes to stable yield. (Tubes and other piping are not included.)

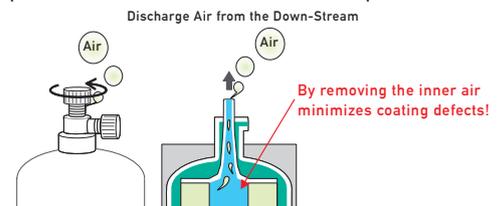
### Up-stream air vent

Air on the outside of the filter (Up-stream side) can be easily discharged from the Up-stream air vent, but air at the top of the filter (Down-stream side) is difficult to remove, which may result in air accumulation.



### With down-stream air vent

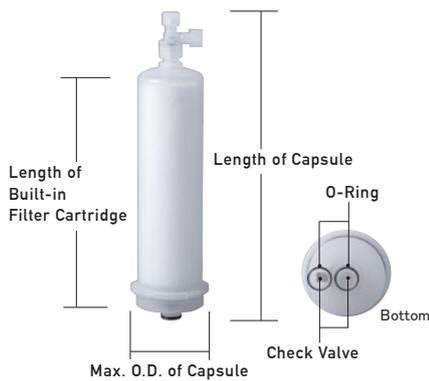
The air inside the filter (Down-stream side) can also be discharged to prevent air accumulation at the start of operation.



## Capsule Filter Cartridge Specifications

### WK

(Up-Stream and Down-Stream Air Vent / Dome-Shaped Design)



Length of Built-in Filter Cartridge	62.5 / 125 / 250 / 500 mm
No. of built-in filters	1pc
Length of Capsule	170 / 236 / 360 / 610 mm
Max. O.D. of Capsule	φ 93mm
Capsule material	Polypropylene
Check valve material	Seal = Polypropylene / Spring = SUS
O-Ring material	EPDM / Silicone / NBR / FKM
Air vent function	Up-Stream and Down-Stream Air Vent
Screw size of air vent cap	R 1/4
Maximum Operating Pressure	Refer to housing design pressure.
Maximum Δ P (Capsule Filter)	Refer to the maximum Δ P in the built-in filter cartridge catalog. However, cannot be used above the maximum operating pressure.
Maximum Operating Temp (Capsule Filter)	40°C (104°F)

\*When using Ez-change capsules, be sure to use the holder.

## Capsule Filter Cartridge Ordering Information

Length	Filter Cartridge Product Type	Micron Rating	O-Ring	Product Type of Capsule Filter Cartridge
2 5 0 L	- S H P -	0 3 0	S	WK
62.5 = 62.5 mm 125 = 125 mm 250 = 250 mm 500 = 500 mm	Please check the "Applicable capsules list for each product type" for compatible part numbers.		None= EPDM S = Silicone N = NBR V = FKM	

## Capsule Filter Housing Specifications

### SIDP for WK



Capsule filter cartridge type	WK	
Length of built in cartridge (mm)	62.5 / 125 / 250 / 500	
No of built in filters	1pc	
Length of housing (mm)	213 / 279 / 403 / 653	
Length between inlet & outlet (mm)	181	
Connecting diameter & configuration	ISO 1S•Ferrule	
Clamp band	SCS13	
Housing material	Base	SIDP: SCS13 • SUS304
	Holder	SIDPB/SIDPE : SCS16 • 316LSS
	Check valve	SCS13 • SUS304
Surface finishing	Base	SIDP/SMDP: Inner surface (Liquid contact area): Conductive FEP coating
	Check valve	SIDPB: Inside & Outside surface ;Buff polishing (#400)
	Check valve	SIDPE: Inside & Outside surface buffing + Electropolishing
Designed operating pressure (Housing)	SIDP / SMDP: Liquid contact area: Conductive FEP coating	
Designed operating temperature (Housing)	SIDPB / SIDPE: Non-coating	
Designed operating pressure (Housing)	0.69MPa (100psi)	
Designed operating temperature (Housing)	40°C (104°F)	

\*By replacing each type of holder, capsule filter cartridges of different lengths and shapes can be used.

\*For other connection shapes, diameters, dimensions, please contact us.

\*When using Ez-change capsules, be sure to use the holder.

# Capsule Filter Housing Ordering Information

Base material & surface finishing  
on liquid contact area

S I D P B -

- SIDP = SUS304,  
Conductive FEP coating
- SIDPB = 316LSS, Buffing #400
- SIDPE = 316LSS,  
Buffing + Electropolishing

Length of  
Built-in Filter Cartridge

2 5 0

- 62.5 = 62.5 mm
- 125 = 125 mm
- 250 = 250 mm
- 500 = 500 mm

Number of  
Built-in Filters

-01-

- 01 = 1pc

Connecting  
diameter/configuration

1S-

- 1S = ISO 1S•Ferrule

Capsule  
Filter Cartridge Type

WK



【Dedicated Jig】

Product name:  
WK Disassembly Jig  
(H4342000)

\*When disassembling  
the product after use for  
the purpose of liquid  
recovery or separate  
disposal,  
use the dedicated jig.

\*The contents of the catalog are subject to change without notice.

\*When used for filtration of organic solvents, antistatic measures may be required.

\*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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information,  
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Manufacturing is based on  
our Quality Management Systems  
that meet ISO9001 standards.

Scope

Design, Development, manufacture,  
and sales of filter cartridges, housings  
and filtration equipment.



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MS  
CM009

28th Issue  
WK210321E