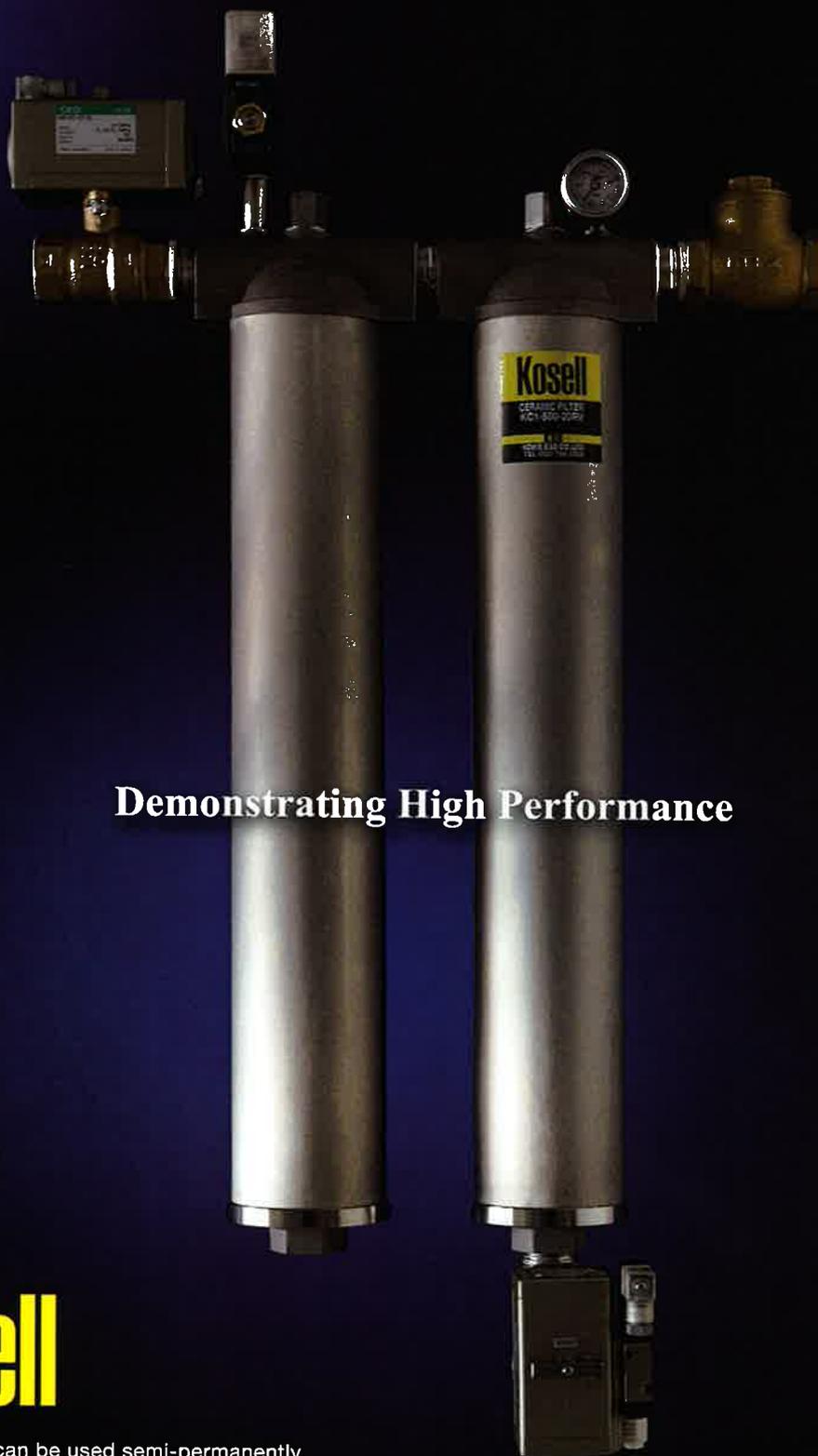




KOIKE BACK WASHING FILTER



Demonstrating High Performance

Kosell

Filter element can be used semi-permanently.
This filter is very friendly to global environment.

Back washing filter of high-precision produces no waste in filter replacement

Kosell realized the two contradicting requirements of “high-precision filtering ability” and being “maintenance free.”

Saving the trouble of filter exchange, it contributes to the reduction of running cost.

KC1-250-20RV · KP1-250-25RV



KC1-500-20RV · KP1-500-25RV



■ Large-capacity type

KC4-250-20RV-1 · KP4-500-25RV-1

KC6-250-20RV-1 · KP6-250-25RV-1

Usage

Being usable for machining centers, grinders, washers, and other machines is one of its characteristics.

Also, compatibility with any machining work materials or fluids makes it possible to install in all kinds of manufacturing scenes.

Kosell elements



<Ceramic filter>

- Filtration precision 20 μm
- Regenerable



<SUS mesh filter>

- Filtration precision 25 μm
- 3-layer sintered wire mesh

Characteristics of Kosell

1 High performance filter element

Made of ceramics or stainless mesh, performing high precision filtration. More stable precision compared to products using cyclonic system.

4 Wide compatibility (fluids)

Compatible with all types of fluids regardless of water-soluble or oleaginous, eliminating filtration trouble related to changes in user fluid types.

2 Back washing system

By backing up clean fluids at one stroke with the plant air supply used as driving force, the element can be washed with efficiency.

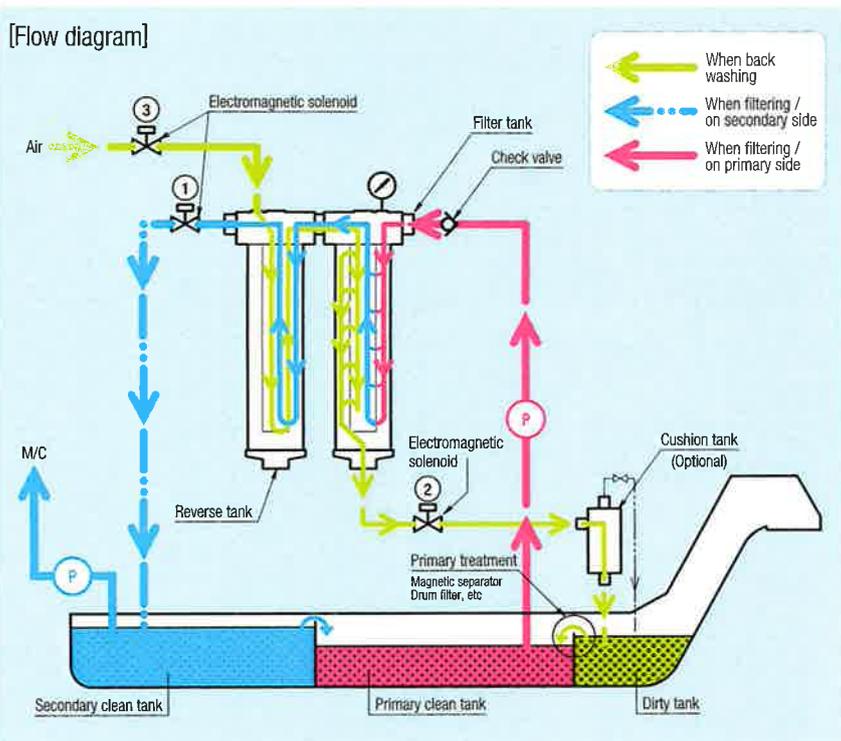
5 Wide compatibility (precision)

We offer elements of precisions other than standard filtration. It is possible to offer higher precision products. (negotiable)

3 No waste (ceramic)

Remaining clogging even after ordinary back washing can be regenerated by our charged service of chemical washing and heat-treatment.

[Flow diagram]

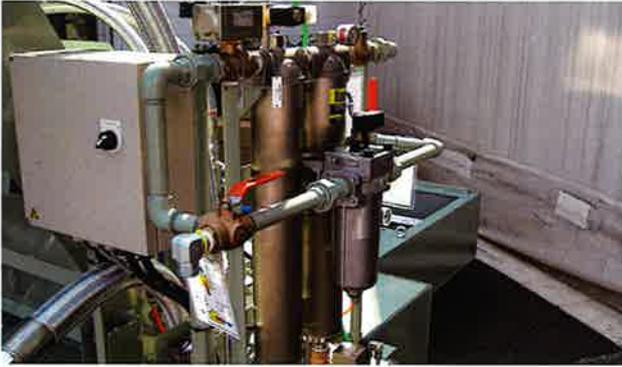


Specifications	Treated flow volume (ℓ/min) Soluble coolant fluids (Clear water)	Inlet pressure (max)	Connector diameter
KC1-250-20RV : KP1-250-25RV	40ℓ (60ℓ)	~0.25MPa	25A
KC1-500-20RV : KP1-500-25RV	60ℓ (90ℓ)	~0.25MPa	25A
KC4-250-20RV-1 : KP4-250-25RV-1	140ℓ (200ℓ)	~0.3MPa	40A
KC6-250-20RV-1 : KP6-250-25RV-1	210ℓ (300ℓ)	~0.3MPa	50A

* Oleaginous coolants can be also used. Contact us for the treated flow volume.

* Be sure to supply fluids after primary treatment with drum filter or magnetic separator.

Effect



- Prevention of wear of rotary joints
- Protection of high-pressure pumps
- Prevention of clogging of oil holes
- Reduction of chucking malfunctions
- Prevention of deterioration of working fluids
- Extension of life of tools and grindstones
- Prevention of stopping machine operation for maintenance

Caution for use of Kosell

① Back washing

Conduct back washing once every 60 seconds for about 5 to 8 seconds. The back washing gushes with considerable force from the drain side. Tightly fix the piping hoses. Do not put the piping in the fluids.

② Supply pump

The supply pump shall be selected carefully for effective back washing. Use pump with total head of 20 to 25 meters. Consider the pump list below (KC4 / KC6 has total head of 25 ~ 30 m).

Model No.	Pump type	Manufacturer	Operation frequency
KC1-250-20RV	MTH4-*/3	Grundfos	50HZ
	MTH4-*/2	Grundfos	60HZ
KC1-500-20RV	SPK8-*/5	Grundfos	50HZ
	SPK8-*/3	Grundfos	60HZ
KC4-250-20RV-1	MTR10-*/3	Grundfos	50HZ
	MTR10-*/2	Grundfos	60HZ
	LPW402A-1.5	Teral Kyokuto Inc.	50-60HZ
KC6-250-20RV-1	MTR15-*/2	Grundfos	50HZ
	MTR10-*/2	Grundfos	60HZ
	LPW402A-1.5	Teral Kyokuto Inc.	50-60HZ

③ Back washing air

Back washing air pressure needs to be over 0.35 MPa (up to max of 0.7 MPa). To ensure sufficient air volume, directly use the plant air supply. The air piping shall be 10 mm or over in internal diameter. The back washing air supplied shall preferably be clean after being filtered. If the air is considerably unclean, it can cause valve malfunctions or defective back washing.

④ Primary treatment

This filter is for secondary treatment. Be sure to conduct primary treatment. Use a magnetic separator for magnetic materials and a drum filter or cyclonic filter for non-magnetic materials before using our filter. In case of using insufficient primary treatment process, the maintenance period can be shorter.

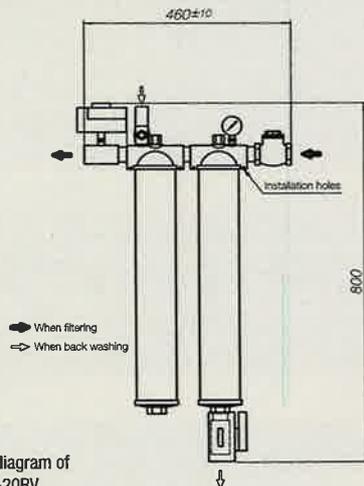
⑤ Mixing of lubricants, etc.

When using soluble coolants (especially emulsions), the oil content in such fluids has an adverse effect on the filter element. Take measures to recover the floated oils to the extent possible by installing an oil skimmer or similar devices.

Detailed diagram

KC1-500-20RV : KP1-500-25RV *

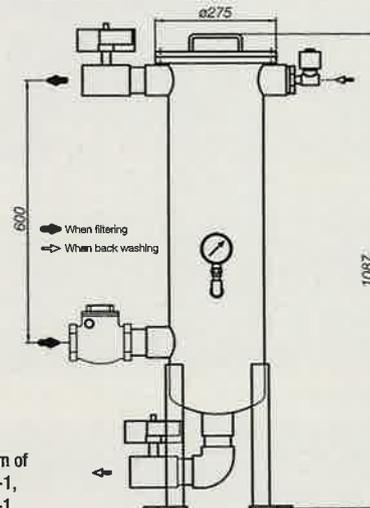
KC1-250-20RV : KP1-250-25RV



*Detailed diagram of
KC1-500-20RV,
KP1-500-25RV

KC6-250-20RV-1 : KP6-250-25RV-1 *

KP4-250-20RV-1 : KP4-250-25RV-1



*Detailed diagram of
KC6-250-20RV-1,
KP6-250-25RV-1

The specifications and designs are subject to change without advance notice. Please contact first.



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