

● Reverse Cartridge Filter  
TCG-R Type



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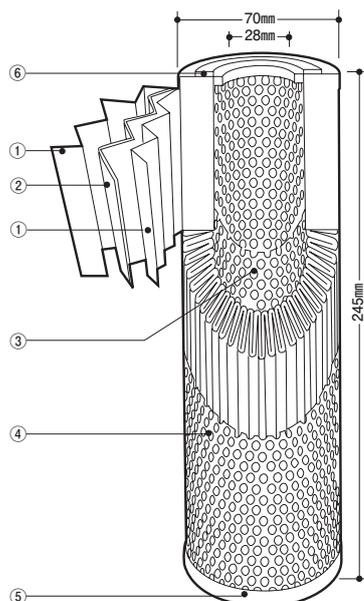
# REVERSE CARTRIDGE FILTER

## TCG-R Type

The filter employs a high-performance glass filtration paper, designed to filter from the inside out of the cartridge filter to the outside as opposed to a regular cartridge filter.

Efficiently remove oil mist and moisture in compressed air and gas.

### Structure of TCG-R Type



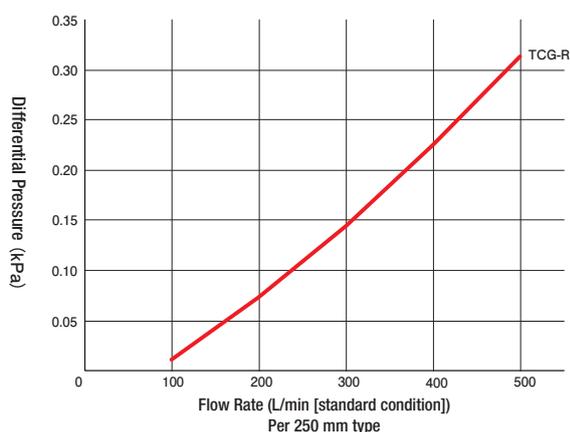
### Features

- The filter employs a high-performance glass filtration paper, which excels in capturing oil mist and moisture.
- Its low resistance achieves high filtration speed.
- It is molded into a pleated shape with polyethylene terephthalate support media. This allows for a large filtration area and excellent durability for use over a long period.

### Oil Mist and Moisture Removal Mechanism

First, fine mists are captured on the inner surface of the filter, and then, they collect and coalesce as they move through the filter. Therefore, when they leak out to the filter surface, they form water droplets or oil droplets, falling to the bottom of the housing by gravity. Periodically remove water and oil collected at the bottom of the housing through the drain at the bottom (to save this process, use the auto-drain trap, TD-1B (sold separately)).

### Typical Flow Rate (AIR)



Conditions Piping: 3/4B Housing: 1RA-1S  
Supply air: 0.49 MPa

### Specifications

Product Name	TCG-R-S4CB	TCG-R-D4CB
Effective Filtration Area (cm <sup>2</sup> )	2,800	5,700
Maximum Differential Pressure*	0.30MPa (25°C)	
Maximum Operating Temperature*	120°C	
Collection Efficiency	99.999% (0.3μmPAO)	
Length (mm)	250	500

\* Maximum differential pressure and maximum operating temperature are set based on the results of tests conducted with oil. These may differ depending on the combination of chemicals, differential pressure, temperature, and time; therefore, we recommend testing before use.

### Materials

- ① Support Media : Polyethylene terephthalate
- ② Filter : Glass fiber and acrylic resin
- ③ Core : SUS304
- ④ Protector : SUS304
- ⑤ Endcap : SUS304
- Sealant : Silicone resin
- ⑥ Gasket : NBR

## Auto Drain Trap

### Features

- When a TCG-R type filter is used with a 1RA type housing, oil mist and moisture in compressed air accumulate at the bottom of the housing.

A TD-1B unit automatically drains oil mist and moisture from the bottom, saving the process of draining them with a drain valve.

### Specifications

Product Name		TD-1B
Product Code		26806010*
Inlet		Rc1/2
Length	H	178mm
	W	63mm
Operating Pressure Range		0.1 to 1.0 MPa
Operating Temperature Range		2 to 60°C
Weight		0.4kg

- To connect the trap to a 1RA type unit, use a fitting for connecting 1RA and TD-1B (Code No. 28912109).
- Substances such as organic solvents and acids may be present in a remaining liquid or atmosphere. The bowl may crack in direct sunlight.
- Ensure to install the piping so that the drain outlet faces downward. This product cannot be used otherwise.
- Use thread-sealing tape on tapered inlet and outlet.
- To change the drain outlet to a screw, please contact us separately.



- Specifications listed in this brochure are subject to change without notice.
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