Option

Reservoir

Model		FNR100N-10	FNR100V-10	FNR101N-10	FNR101V-10
Tank capacity		1.1ℓ		1.8ℓ	
Port size		Rc 1			
Material	Bowl & Cover	Stainless steel SUS304			
	O-ring	NBR	FPM	NBR	FPM
Weight		1.5kg		1.9kg	
Applicable filter		FN11□1□ (Element 250mm)		FN11□2□ (Element 500mm)	

Dust recovery filter

Model		FND100N-10-M149X0	FND100V-10-M149X0
Port size		R1	
Material	Bowl & Cover	Stainless steel SUS304	
	O-ring	NBR	FPM
	Element	Stainless steel SUS304	
Element filtration		149μm	
Weight		7.5kg	

Note) Produced upon receipt of order.

Fluid Compatibility (Guide)

Seal material \ Fluid		Water			Coolant		Petroleum		Alkali	
		Potable water	Industrial water	Distilled water	Water soluble	Oil-based	Gas oil Kerosene	Xylene	Ammonium hydroxide	Sodium hydroxide
Nitrile rubber	NBR	◎	◎	◎	◎	◎	◎	×	◎	◎
Fluoro rubber	FPM	○	○	○	○	○	○	◎	×	×

◎ ··· **Most compatible** ○ ··· **Compatible** × ··· **Not compatible**

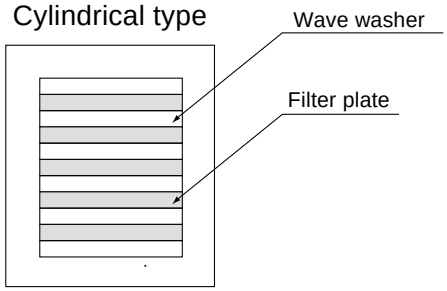
Note 1) Contact SMC when PTFE is required for seal material.
Note 2) Contact SMC regarding the compatibility of the seal and pressure gauge.

Cylindrical Type and Step Type Elements

1. Cylinder type element (5μm, 20μm)

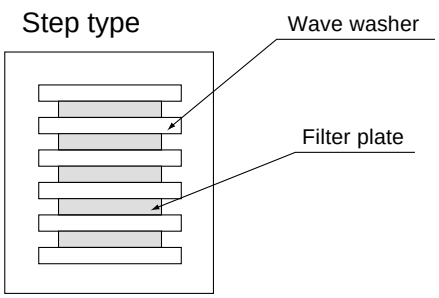
•The cylindrical type construction has a smooth peripheral surface since the dimension of the filter plate and wave washer is the same. The use of the entire peripheral surface of the element to collect dust allows larger filtration area and easy dust separation. For this reason, this type of element is ideal for filtering the fluids that contain dust with the same particle size.
If the cylindrical type element is used for fluids containing dust particles with a great variance in sizes, large-size dust particles can cover the element's peripheral surface. This can clog the element prematurely and thus you may no longer use it.
(Especially for soft and sticky foreign matter)

(Example: the cylindrical type is recommended to filter polishing chips and the step type for cutting chips)



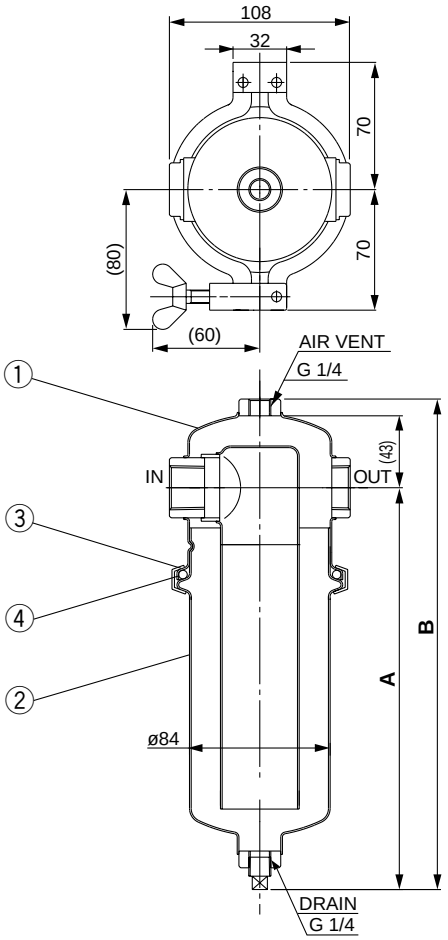
2. Step type element (5μm)

•The step type construction has an uneven (stepped) surface since the dimension of the filter plate is smaller than that of the wave washer. When filtering uneven dust particles, larger particles are caught on the peripheral surface of the wave washers, and smaller particles are filtered out with filter plates. This construction can extend the element life and make the effective filtering possible when filtering fluids containing dust particles with a great variance in sizes.
Select the appropriate element type (cylindrical or step type) depending on the dust size variance in the fluid.

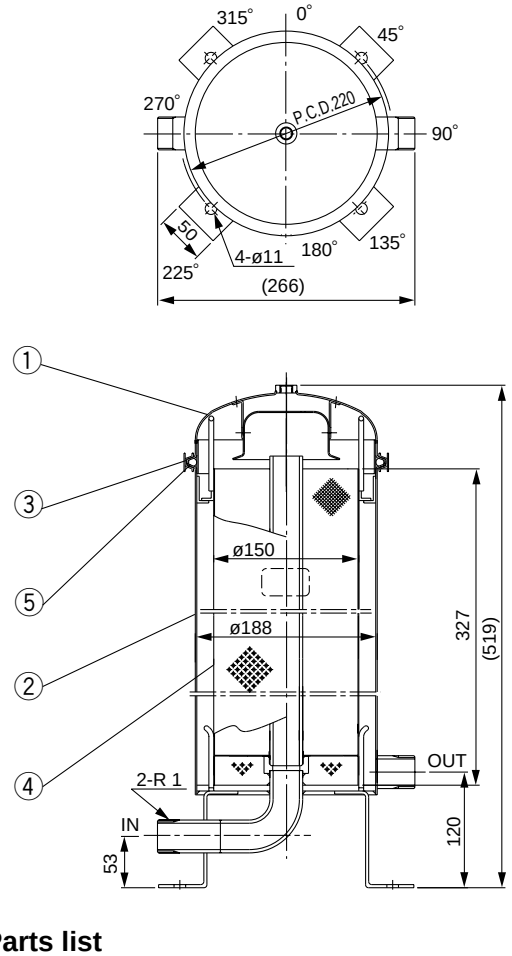


Options

Reservoir



Dust removal filter



Dimensions

(mm)

Model	Bore size (Nominal size B)	A	B
FNR100$^{N}_{V}$-10	Rc 1	194	(257)
FNR101$^{N}_{V}$-10		332	(385)

Parts list

No.	Description	Material	Note
1	**Cover**	Stainless steel SUS304	
2	**Bowl**	Stainless steel SUS304	
3	**V-band**	Stainless steel SUS304	

Replacement parts

No.	Description	Material	Note
4	**O-ring**	NBR	JIS B 2401-1A-P85
		FPM	JIS B 2401-4D-P85

Parts list

No.	Description	Material	Note
1	**Cover**	Stainless steel SUS304	
2	**Bowl**	Stainless steel SUS304	
3	**V-band**	Stainless steel SUS304	

Replacement parts

No.	Description	Material	Note
4	**Element**	Stainless steel SUS304	EZH710AS-149
5	**O-ring**	NBR	JIS B 2401-1A-P185
		FPM	JIS B 2401-4D-P185