

Low Maintenance Filter

FN1/FN4 Series



How to Order

With single element

FN1 1 0 1 N - 10 - S 020

With four elements

FN4 1 0 2 N - 20 - S 020

Housing material

Symbol	Housing material
1	Stainless steel 304

Element type ^{Note)}

Symbol	Element type	Applicable model
0	Cylindrical type (5 μm, 20 μm)	FN1, FN4
1	Step type (5 μm)	FN1

Note) Refer to page 89 for detailed element type.

Element length

Symbol	Element length	Applicable model
1	L 250 mm	FN1
2	L 500 mm	FN1, FN4

Seal material

Symbol	Seal material
N	NBR
V	FKM

Pressure gauge

Symbol	Pressure gauge
Nil	None (With plug)
G ^{Note 1)}	With pressure gauge ^{Note 2)} (Wetted part: Brass)

Note 1) Contact SMC for the pressure gauge specification for stainless steel wetted parts.

Note 2) The FN4 series is equipped with two pressure gauges.

Nominal filtration rating

Symbol	Element material	Symbol	Nominal filtration rating
S	Stainless steel 304	005	5 μm (Cylindrical type, Step type)
		020	20 μm (Cylindrical type)

Port size

Symbol	Port size	Applicable model
10	Rc1	FN1
20	Rc2	FN4

Specifications

Filter

Model	FN1101	FN1111	FN1102	FN1112	FN4102
Element dimension	ø65 x 250 L		ø65 x 500 L		
Fluid	Coolant (oil-based or water-soluble), Weak alkaline cleaning fluid, Cutting oil, Industrial water				
Operating pressure	Max. 1.0 MPa		Max. 1.0 MPa		
Fluid temperature ^{Note 1)}	Max. 80°C (For with pressure gauge: 60°C or less)				
Flow rate ^{Note 2)}	Approx. 40 L/min		Approx. 80 L/min		Approx. 250 L/min
Port size	Rc1 (IN, OUT, DRAIN)			Rc2	
Material	Bowl and Cover: Stainless steel 304, O-ring: NBR/FKM				
Element	Material: Stainless steel 304				
Construction	Cylindrical type	Step type	Cylindrical type	Step type	Cylindrical type
Nominal filtration rating	5 μm, 20 μm	5 μm	5 μm, 20 μm	5 μm	5 μm, 20 μm
Differential pressure proof	0.6 MPa				
Reservoir tank capacity	Approx. 1.1 L (when reservoir is set separately)		Approx. 1.8 L (when reservoir is set separately)		Approx. 6 L
Weight	13 kg	12.5 kg	15 kg	14.5 kg	65 kg

Note 1) The temperature will be 0°C to 60°C when the auto switch is mounted on the cylinder.

Note 2) Fluid: Water; Nominal filtration: 20 μm; Pressure drop: 0.02 MPa or less.

Operating Part

Model	CDLQB63-□D-F(FN1), CDLQA100-50-F(FN4)
Auto switch	None (Built-in magnet) ^{Note)}
Fluid	Air
Introduced pressure	0.25 to 0.3 MPa
Unlocking pressure	0.2 MPa or more
Locking pressure	0.05 MPa or more
Locking direction	Extension locking

Note) Auto switch must be ordered separately. Refer to the CLQ series (Compact Cylinder with Lock) "Best Pneumatics No.2-2" for details.

