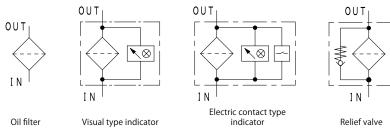


Spin-on type Multi-functional Oil Filter

Characteristics

- Easy maintenance by cartridge replacement
- High performance C-fiber (3μm) and paper (10μm) are selectable for cartridge
- Water absorption element is available
- Clogging indicator and relief valve are selectable as an option
- Pipe connection type is "Rc threaded"



 \bigstar Refer to P.222 for hydraulic graphic symbol of other combination of optional equipment.

SPECIFICATION

Max working pressure MPa		1.0
Repetition durability test		$0\sim$ 1.0MPa x 10^7 times
Working	Standard ℃	-10 ∼ 90
	Working fluid	Mineral oil
Indicator working pressure MPa		0.3
Cracking pressure MPa		0.35
Flow direction/Extract direction of filter element		OUT → IN / Downward

Model code		107-10-2	107-10-3	107-10-W	
Standard flow rate ☆ ℓ /min		150		20 (Max)	
Main material	n material Body		Aluminum		
Body		Non-coating			
Coating	Cartridge		Yellow		Blue
	Cartiluge	10U	Bla	ick	Diue
Weight kg		2.4	2.7	2.8	

[☆]Standard flow rate is estimated by the condition of density: 0.86, kinematic viscosity: 32mm²/s, filtration rating: U10, pressure drop: lower than 0.05MPa.

(Since it is adjusted by characteristic of each product, value can be different in some cases.)

MODEL CODE

 $\langle \mathsf{Model}\,\mathsf{code}\,\mathsf{example}\rangle$



M

Į		
	Code	Inner diameter
ı	10	Rc1 1/4

Code	Cartridge size
2	Approx. 220mm
3	Approx. 300mm

Code	Filtration rating		
C-F	iber		
3C *1 3 μm			
Paper			
10U	10 μ m		
Water absorption			
cartridge			
W	W-1321		
D. C			

Refer to P.15 -16 for detail information of filter element.

Code	Option	
(1 Indicator	
Blank	Closing plug	
-1	Visual type	
F	Electric contact	
ı	type	
	Electric contact	
D	type (Micro	
	capacity)	
2 Relief valve		
K	Non	

Relief valve

FLOW RATE GRAPH

Condition

Fluid type: ISO VG32 Oil temperature:40°C

Density: 0.86, Kinematic viscosity: 32mm²/s

■ How to calculate of pressure drop

Estimate pressure drop of filter assembly by following equation:

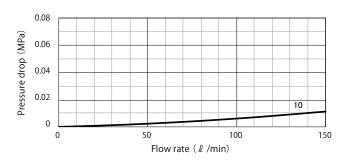
Pressure drop of filter assembly = ① Pressure drop of filter housing + ② Pressure drop of filter element

Estimate pressure drop of filter assembly by following equation if required condition is different:

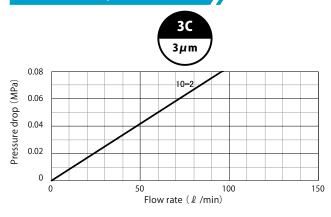
Fluid density Pressure drop of Pressure drop of filter housing at density of 0.86 filter housing 0.86 Pressure drop of filter element at density of 0.86,kinematic viscosity of 32 Kinematic viscosity × Pressure drop of Fluid density filter element 0.86 32

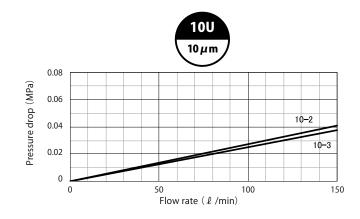
★ Pressure drop of filter housing is proportional to fluid density, and pressure drop of filter element is proportional to fluid density and kinematic viscosity.

1 Pressure drop of filter housing

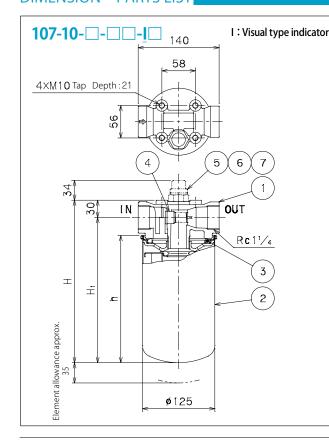


2 Pressure drop of filter element





DIMENSION • PARTS LIST



No.	ltem	Qty
1	Body	1
2	Cartridge	1
3	Relief valve	1
4	Packing	1
5	Indicator	1
6	O-ring	1
7	O-ring	1
	1 2 3 4 5	1 Body 2 Cartridge 3 Relief valve 4 Packing 5 Indicator 6 O-ring

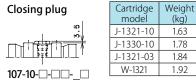
NO.	item	Qty
1	Body	1
2	Cartridge	1
3	Relief valve	1
4	Packing	1
5	Indicator	1
6	O-ring	1
7	O-ring	1

E,D: Electric contact type		
indicator DIN connector		
Outer diameter of		
[EC529(EN60529)	(PE	i5
88 .5.		
		Indic
107-10-□-□□-E,D□		со

Mark Model code	Н	Hı	h
107-10-2	281	251	220
107-10-3	339	309	278
107-10-W	281	251	220

Spare Cartridge				
Filtration rating	10U	3C	W	
Model code	Cartri	dge model	code	
107-10-2	J-1321-10	J-1321-03	W-1321	
107-10-3	J-1330-10			
- The state of the				

Sealing parts No. Standard JIS B2401 1B JIS B2401 1A P18



Indicator	W	orking pressure (MP	'a)
model	Visual obser	Visual observation signal	
code	Caution	Clogging	signal
IA-3	0.2	0.3	
EA-3	0.2	0.3	0.3
FA-3D	0.2	0.5	0.5

(Micro switch specification)		
Model code	Rated canacity	

Model code	Rated capacity		Contact diagram: 1C
EA-3 loa	Resistance	3A,250V AC	
	load	3A,30V DC	O 3.NO
	Inductive	2A,250V AC	1 . CO M ●
	load	2A,30V DC	2.NC
FA-3D	Micro	100mA,125V AC	
EA-3D	capacity	100mA,30V DC	,