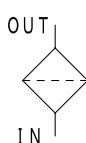


### Simple Line Filter with filtration function only

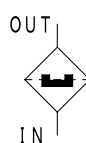


#### Characteristics

- Suitable for various fluid: hydraulic oil, fuel oil, and so on
- Less components, Simple, Light
- Magnet is installable for magnetic particle removal (option)
- Pipe connection type is "Rc threaded" only



Oil filter



Magnet

### SPECIFICATION

Max working pressure	MPa	0.5
Working temperature	Standard	°C -10 ~ 90
	High temperature *1	°C -10 ~ 150
Indicator working pressure	MPa	Not available
Cracking pressure	MPa	Not available
Allowable differential pressure of filter element	MPa	0.7
Flow direction/Extract direction of filter element		OUT → IN / Downward

Inner diameter		02	03	04	06	08
Standard flow rate ☆	ℓ /min	15	30	45	70	85
Main material	Upper cover	ADC				
	Lower cover	SPCE				
Coating	Upper cover	Non-coating				
	Lower cover	Plating				
Weight	kg	0.85	0.85	0.95	1.0	

☆ Standard flow rate is estimated by the condition of density: 0.86, kinematic viscosity: 32mm<sup>2</sup>/s, filtration rating: 10U, pressure drop: lower than 0.05MPa.  
(Since it is adjusted by characteristic of each product, value can be different in some cases.)

### MODEL CODE

<Model code example>

**F** - **LND** - **08** - **10U** - **M**

Code	Fluid type
Blank	Mineral oil
F	Phosphate ester fluid
G	Water glycol fluid
C	Fatty ester fluid
W	High water base fluid
S	Fuel (Kerosene, Gas oil, Diesel oil)

Code	Inner diameter
02	Rc 1/4
03	Rc 3/8
04	Rc 1/2
06	Rc 3/4
08	Rc1

Code	Filtration rating	Code	Filtration rating
C-Fiber		Wire gauze	
8C	8 μm	5UW	5 μm
25C	25 μm	10UW	10 μm
Paper		20UW	20 μm
10U	10 μm	40UW	40 μm
20U *2	20 μm	50UW	50 μm
40U *2	40 μm	200W	200Mesh
		150W	150Mesh
		100W	100Mesh
		60W	60Mesh
		Notch wire (Dimple wire)	
		50UK	50 μm
		200K	200Mesh
		150K	150Mesh
		100K	100Mesh
		60K	60Mesh

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

Code	Option
	Magnet
Blank	Non
M	Magnet

# FLOW RATE GRAPH

## Condition

Fluid type : ISO VG32  
Oil temperature : 40°C

(Density: 0.86,  
Kinematic  
viscosity: 32mm<sup>2</sup>/s)

## How to calculate of pressure drop

Estimate pressure drop of filter assembly by following equation:

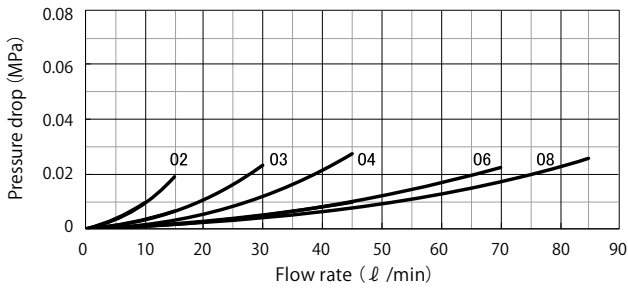
$$\text{Pressure drop of filter assembly} = \text{① Pressure drop of filter housing} + \text{② Pressure drop of filter element}$$

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

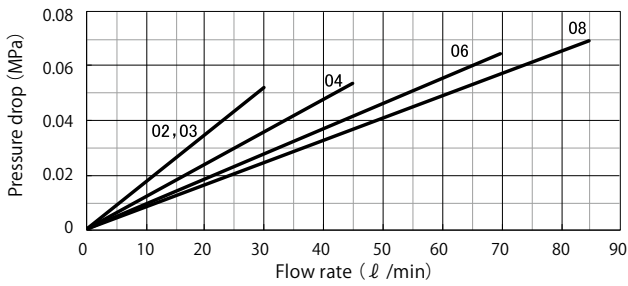
$$\begin{aligned} \text{Pressure drop of filter housing} &= \frac{\text{Fluid density}}{0.86} \times \text{Pressure drop of filter housing at density of 0.86} \\ \text{Pressure drop of filter element} &= \frac{\text{Fluid density}}{0.86} \times \frac{\text{Kinematic viscosity}}{32} \times \text{Pressure drop of filter element at density of 0.86, kinematic viscosity of 32} \end{aligned}$$

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

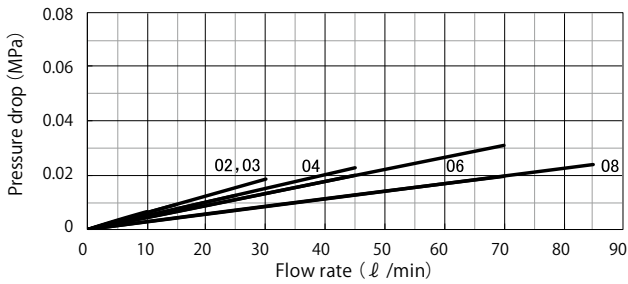
### ① Pressure drop of filter housing



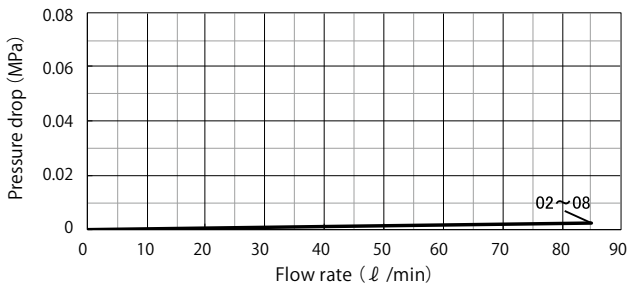
### ② Pressure drop of filter element



**8C**  
8 μm



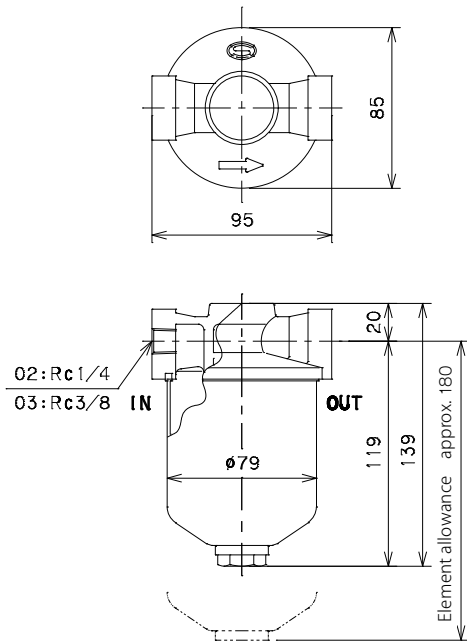
**10U**  
10 μm



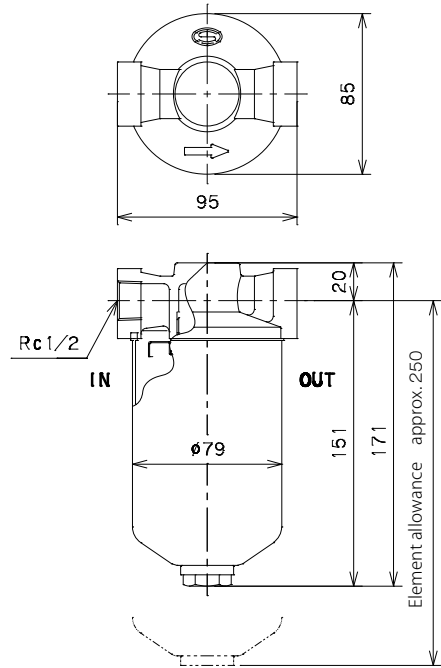
**150W**  
150 Mesh\*

\* 1 Pressure drop of wire gauze element is described with one line since the value is low and there is no difference at each filter size.

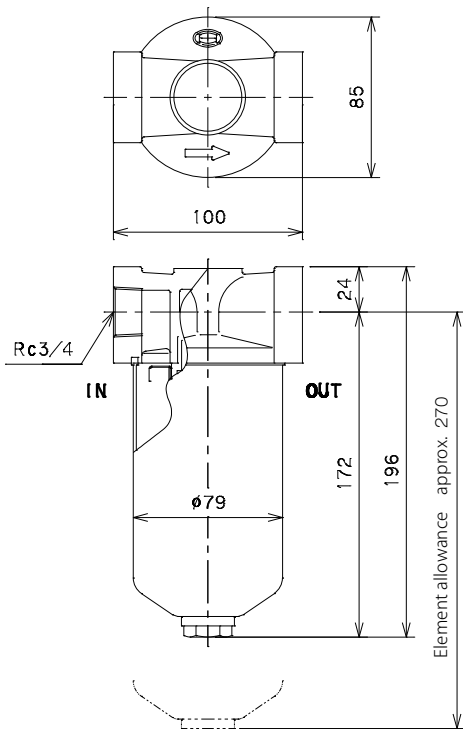
LND-02,03 - □□-□



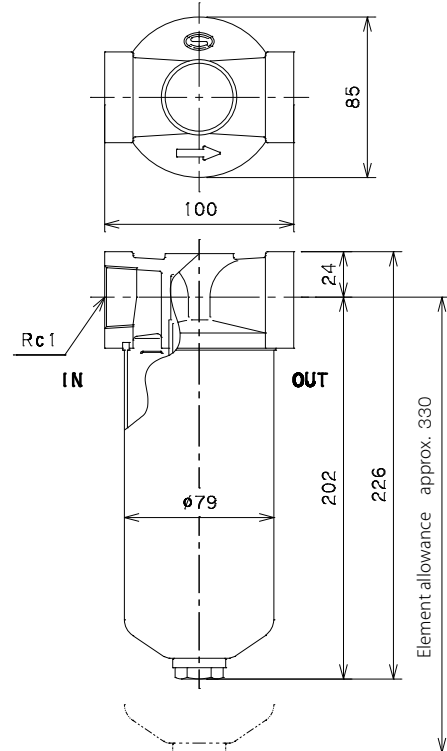
LND-04 - □□-□

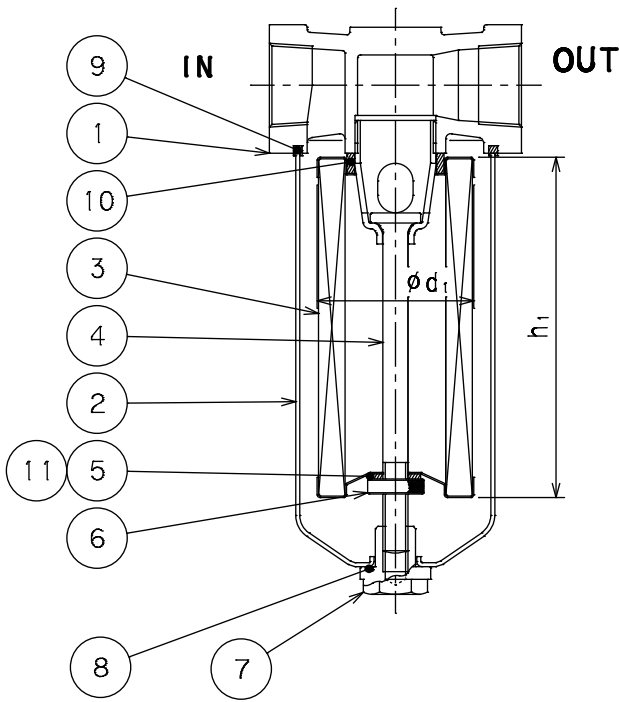


LND-06 - □□-□



LND-08 - □□-□





No.	Item	Qty
1	Upper cover	1
2	Lower cover	1
3	Element	1
4	Center rod	1
5	Washer	1
6	Round nut	1
7	Nut	1
8	O-ring	1
9	Packing	1
10	Packing	1
11	Packing	1

ELEMENT SIZE

Element Model code	Size(mm)		Weight*1 (kg)
	φ d <sub>1</sub>	h <sub>1</sub>	
P-LND-02,03	62.2	66	0.13
P-LND-04		95	0.18
P-LND-06		105	0.19
P-LND-08		135	0.22

SEALING PARTS LIST

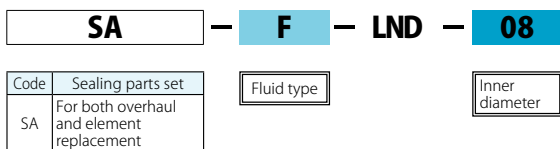
No.	8	9	10	11	Item code of sealing parts set*3	
Standard*2	JIS B2401 1A	Special packing			Material	SA No. : 8 ~ 11
Model code						
LND-02					NBR	SSF000041
LND-03						
LND-04	P20	t4xφ80.7/φ74.3	t8xφ38.5/φ32.5	t2xφ20/φ10	FKM	SSF000408
LND-06						
LND-08						

MODEL CODE OF SPARE PARTS

Replacement element (Model code example)



Sealing parts set (Model code example)



★ Model code of replacement element exists two types: "Individual code" and "Common code", however it represents same product.

"Individual code": Used in drawings and nameplate as shown in <Model code example>.

"Common code": Used in vouchers and tag

Refer to [Spare Element List] on P.152 for "Common code".

★ Refer to the [MODEL CODE] table on the previous page for code selection.

★ Sealing parts set is available for both overhaul and element replacement. Model code is represented as "SA".

\* 1 Weight of "Paper" element \* 2 Standard for NBR. For other material, conform to the standard.  
 \* 3 Sealing parts are available as "Sealing parts set" only. We do not provide single part individually.