





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 press	0.5	
Working temperature	Standard ℃	-10 ∼ 90
	High temperature *1 °C	-10 ∼ 150
Indicator working p	Not available	
Cracking pressure	Not available	
Allowable different element	0.7	
Flow direction/Extra	OUT → IN / Downward	

Inner diameter		10	12	16	20	24	
Standard flow rate ☆ ℓ/min		170	185	300	570	610	
Main material	Upper o	over	AC				
iviaii i i i ateriai	Lower o	over	SPCE				
Coating	Upper o	cover	Non-coating				
Coating	Lower o	over	Plating				
Weight kg			2	.6	4.0	7.	8

[☆] Standard flow rate is estimated by the condition of density: 0.86, kinematic viscosity: 32mm²/s, filtration rating: 10U, pressure drop: lower than 0.05 MPa

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

MODEL CODE

(Model code example)

Blank Mineral oil

W

High water base

(Kerosene, Gas oil, Diesel oil)

	Fluid type	Code	Inner d
	Mineral oil	10	Rc1 1/4
	Phosphate ester	12	Rc1 1/2
_	fluid	16	Rc2
_	Water glycol fluid	20	Rc2 1/2
	Fatty ester fluid	24	Rc3

Code	Inner diameter
10	Rc1 1/4
12	Rc1 1/2
16	Rc2
20	Rc2 1/2
24	Rc3

Code	Filtration rating	Code	Filtration rating	
C-F	iber	Wire gauze		
8C	8 µ m	5UW	5μm	
25C	25 μ m	10UW	10 μ m	
Pa	per	20UW	20 µ m	
10U	10 μm	40UW	40 μ m	
20U*2	20 μm	50UW	50 μm	
40U*2	40 μ m	200W	200Mesh	
Refer to P.15 -	16 for detail	150W	150Mesh	
information o	of filter	100W	100Mesh	
element.		60W	60Mesh	
		Notch wire		
		(Dimple wire)		
		50UK	50 μm	
		200K	200Mesh	
		150K	150Mesh	
		100K	100Mesh	

60Mesh

Code	Option	
Magnet		
Blank Non		
М	Magnet	

FLOW RATE GRAPH

■ Condition

Fluid type: ISO VG32 Oil temperature: 40°C

/Density: 0.86, Kinematic viscosity: 32mm²/s

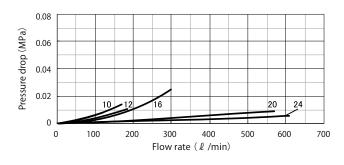
■ How to calculate of pressure drop

• Estimate pressure drop of filter assembly by following equation:

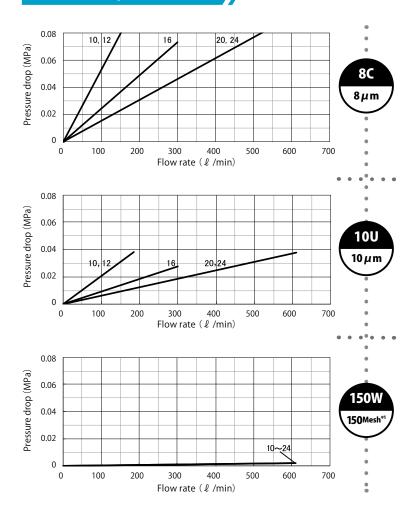
Pressure drop of filter assembly = ① Pressure drop of filter housing + ② Pressure drop of filter element

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

1 Pressure drop of filter housing

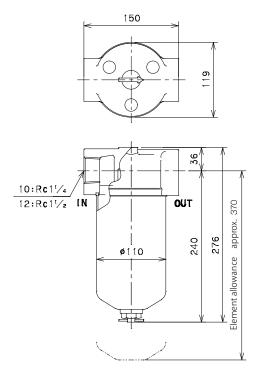


2 Pressure drop of filter element

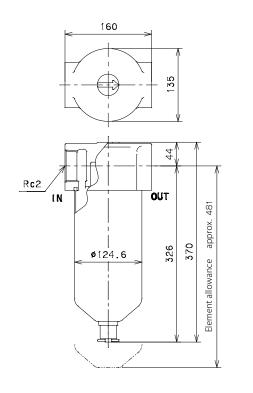


[★] Pressure drop of filter housing is proportional to fluid density, and pressure drop of filter element is proportional to fluid density and kinematic viscosity.

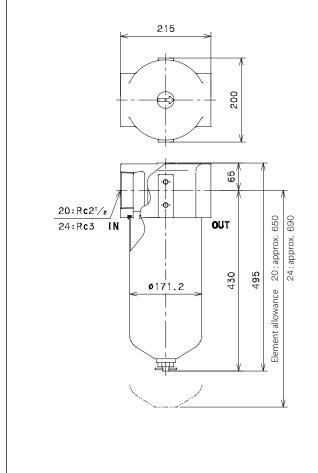
LN-10,12 - ...

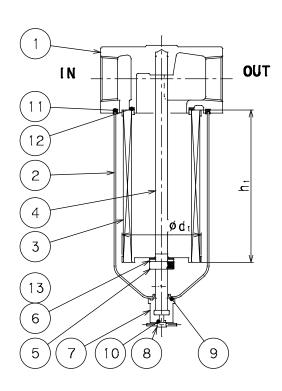


LN-16 -□□-□



LN-20,24 -□□-□





PARTS LIST

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

ELEMENT SIZE

Element	Size(Weight*1	
Model code	ϕd_1	h ₁	(kg)
P-LN-10,12	83	150 (152)	0.37
P-LN-16	104	200	0.72
P-LN-20	124	260	1.00
P-LN-24	124	300	1.13

^{*} In case of Notch wire element, size is in ().

SEALING PARTS LIST

No.	9	10	11	12	13	Item code of sealing parts set *3	
Standard *2 Model code	JIS B2401 1A		Special packing			Material	SA No.∶9 ~ 13
LN-10	P25		t4xφ111.7/φ104.3	t3xφ58/φ48	t2xφ26/φ12	NBR	SSF000043
LN-12		P25 P7	[ι+χψ111.//ψ104.5]	ισχψυσ, ψ4σ		FKM	SSF000410
LN-16			t6xφ126.6/φ116	t3xφ85/φ72	t2xφ32/φ16	NBR FKM	SSF000044 SSF000411
LN-20	- P34	P9	+2v.4101/4165	+2v 4110 / 402	+2×440/420	NBR	SSF000609
LN-24		F9	t3xφ181/φ165	t3xφ110/φ92	t2xφ40/φ20	FKM	SSF000923

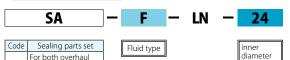
MODEL CODE OF SPARE PARTS





Sealing parts set \(\langle \text{Model code example} \rangle

and element replacement



- ★ 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".

Weight of "Paper" element * 2 Standard for NBR. For other material, conform to the standard.

st 3 Sealing parts are available as "Sealing parts set" only. We do not provide single part individually.