

Lubricator Standard White Series

L1000/L3000/L4000/L8000-W Series

Supplies fine oil mist.

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

Item	L1000-W	L3000-W	L4000-W	L8000-W
Appearance				
Working fluid	Compressed air			
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)			
Proof pressure MPa	1.5 (≈220 psi, 15 bar)			
Ambient / fluid temperatures °C	5 (41°F) to 60 (140°F)			
Min. drip flow rate *1 m^3/min(ANR)	0.015	0.03	0.065	0.065
Oil storage capacity cm^3	20	85	170	170(MAX360)
Oil used	Turbine oil Class 1 ISO VG32 (spindle oil cannot be used)			
Port size Rc,NPT,G	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Weight kg	0.1	0.28	0.45	1.4
Standard accessories	Bowl guard			

*1: The min. drip flow is that at which five drops of turbine oil drip per minute at the primary pressure of 0.5 MPa and inlet air temperature of 20°C. (It cannot be used for dry fog.)

Float switch electric specification

Item	
Number of control points	1 points
Actuation	Switch turns OFF when float rises (oil level detected), and turns ON when float lowers (no oil level detected)
Max. working voltage	240 VAC, 200 VDC
Max. open and close capacity	50 VA or 50 W, whichever is smaller
Max. open and close current	0.5 A
Resistance voltage between contacts	400 VDC for one minute and leak current 1 mA or less
Contact resistance	220 mΩ or less (between terminal sections)
Insulation resistance	100 MΩ and over (between terminal section and case, 500 VDC megger)
Withstand voltage	1500 VAC for one minute (between terminal section and case)
Electrical life	10^6 times (at 200 VAC, 200 mA, depending on resistance load)

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge		Bowl material		Pipe adaptor set							Bracket
	C	LL	M	M1	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W	BW
L1000	0				0.09	0.09	0.09					0.1
L3000	0	0.05	0.1	0.1		0.16	0.16	0.16				0.17
L4000	0	0.05	0.1	0.1		0.16	0.16	0.16	0.16			0.21
L8000	0	0.05	0.1	0.1					0.53	0.53	0.53	0.36

How to order

L1000 - 6 ○ - W - C - ○ - A6W ○

* Refer to page 30 for the explanation of the option.

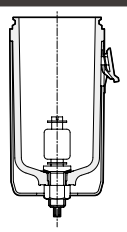
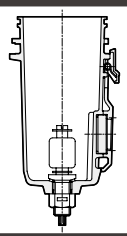
Ⓐ Model No.
Ⓑ Port size
Ⓒ Port thread
Ⓓ Option
Ⓔ Display unit
Ⓕ Pipe adaptor set (included)
Ⓖ Bracket (included)

Code		Description	Ⓐ Model No. L1000	L3000	L4000	L8000
Ⓑ Port size						
6		1/8	●			
8		1/4	●	●	●	
10		3/8		●	●	
15		1/2			●	
20		3/4				●
25		1				●
Ⓒ Port thread						*1
Blank		Rc thread	●	●	●	●
N		NPT thread	●	●	●	●
G		G thread	●	●	●	●
Ⓓ Option						*2
Drain discharge	**Blank**	Without manual cock	●	●	●	●
	C	With manual cock	●	●	●	●
	LL	With float switch		●	●	●
Bowl material *3	**Blank**	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl		●	●	●
	M1	Metal bowl with manual drain cock *4		●	●	●
Flow direction	**Blank**	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●
Ⓔ Display unit						
Blank		MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●
J1		MPa display (NPT, G thread)	●	●	●	●
Ⓕ Pipe adaptor set (included)						*5, *6 Page 350
Blank		Not included	●	●	●	●
A6*W		1/8 pipe adaptor set	●			
A8*W		1/4 pipe adaptor set	●	●	●	
A10*W		3/8 pipe adaptor set	●	●	●	
A15*W		1/2 pipe adaptor set		●	●	
A20*W		3/4 pipe adaptor set			●	●
A25*W		1 pipe adaptor set				●
A32*W		1 1/4 pipe adaptor set				●
*** Adaptor thread**						
Blank		RC thread	●	●	●	●
N		NPT thread	●	●	●	●
G		G thread	●	●	●	●
Ⓖ Bracket (included)						
Blank		Not included	●	●	●	●
BW		C type bracket	●	●	●	●

⚠ Precautions for model No. selection

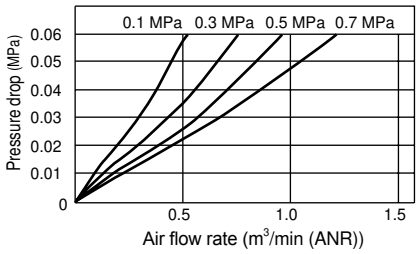
*1: G and NPT threads are available for IN and OUT.
*2: When selecting options for several items, list options in order from the top.
*3: The adjusting dome material will change to nylon resin when the nylon bowl or metal bowl is selected.
*4: When selecting option "M1", select the drain discharge option "C".
*5: The pipe adaptor set and C type bracket cannot be used together.
*6: The joiner set is enclosed with the pipe adaptor set.

Drainage and bowl material combination (Item Ⓓ in How to order)
Option D With float switch

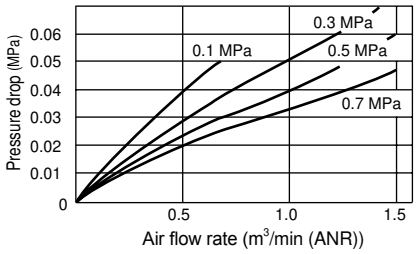
	3000/4000/8000 Series	
Shape		
Material	**Plastic bowl**	**Metal bowl**
	Polycarbonate / **Nylon**	**Aluminum**
Lubricator L*000-W	LL / LLZ	LLM

Flow characteristics

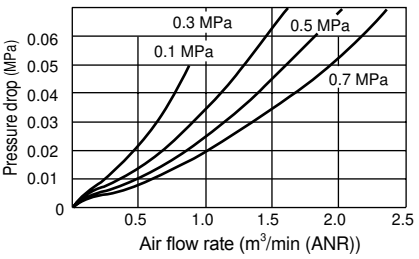
● L1000-6-W



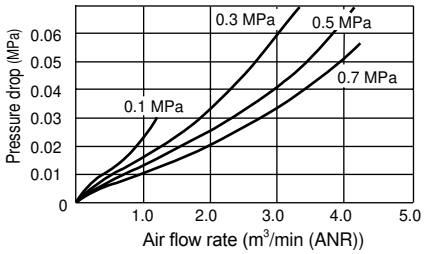
● L1000-8-W



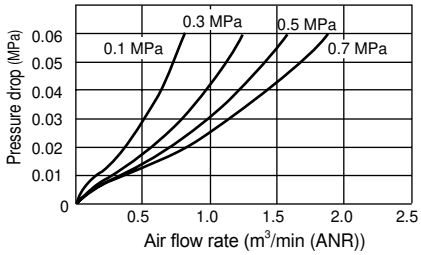
● L3000-8-W



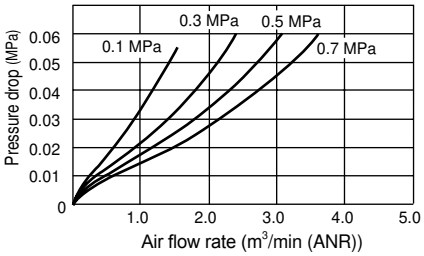
● L3000-10-W



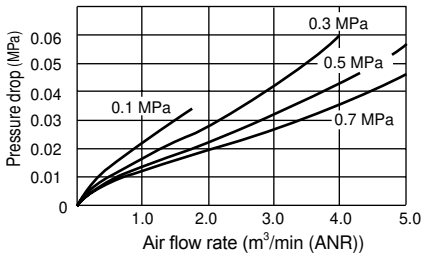
● L4000-8-W



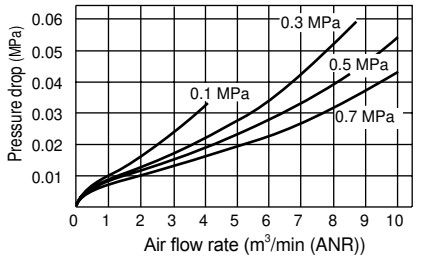
● L4000-10-W



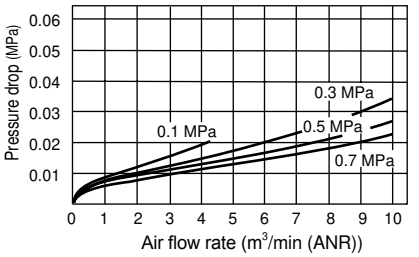
● L4000-15-W



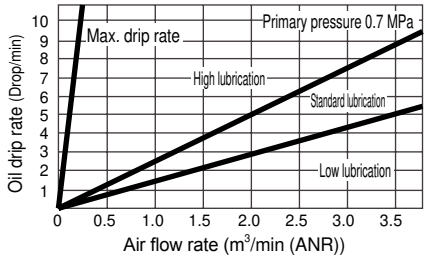
● L8000-20-W



● L8000-25-W

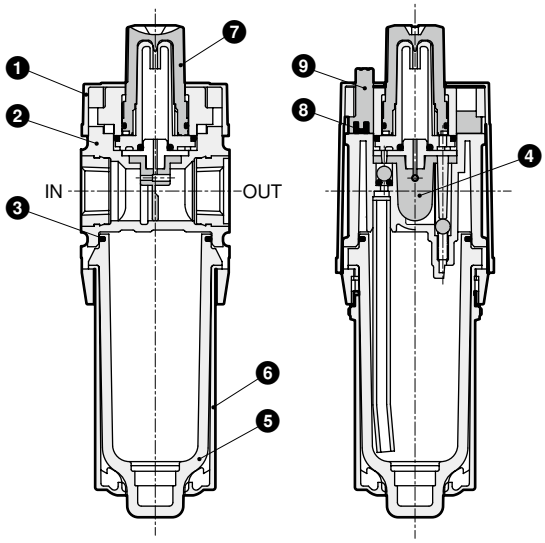


Oil drip rate

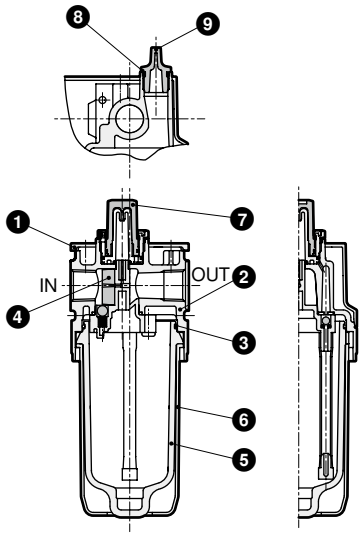


Internal structure and parts list

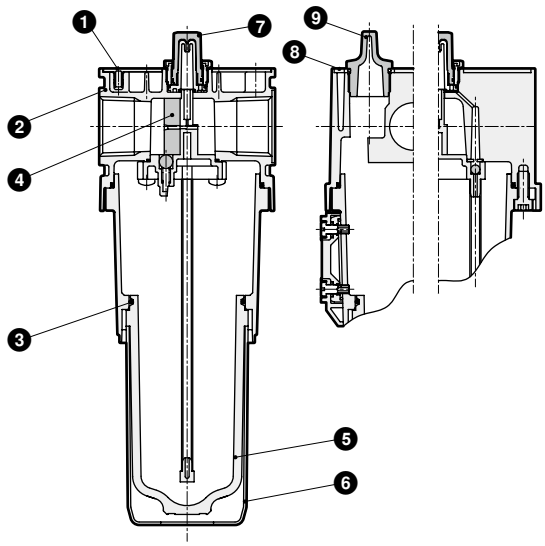
● L1000-W



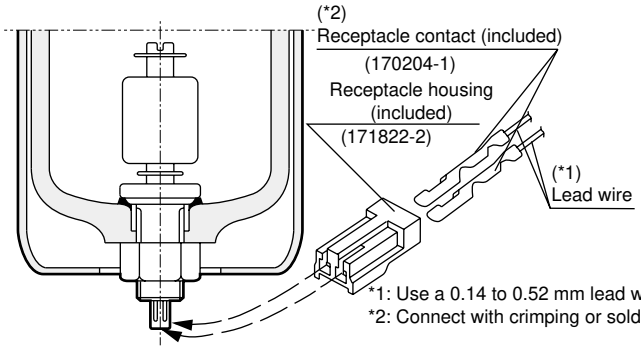
● L3000-W/L4000-W



● L8000-W



● Option float switch



*1: Use a 0.14 to 0.52 mm lead wire.
*2: Connect with crimping or soldering.

A TE Connectivity Ltd. post header (part No. 171825-2) is used for the terminal.
Use an 171822-2 (standard) or 172142-2 (rope file) for the connector.

Note: The degree of protection of terminal sections is equivalent to IP40. Protect the product appropriately if it is exposed to water, salt, dust, and cutting chips. Contact CKD if the degree of protection is required.

No.	Part name	Material			
		L1000-W	L3000-W	L4000-W	L8000-W
1	Plate cover	ABS resin			
2	Body	Polyamide resin, steel	Aluminum alloy die-casting		
3	O-ring *1	Special nitrile rubber			
4	Flow guide	Urethane rubber resin		Nitrile rubber	
5	Bowl	Polycarbonate resin			
6	Bowl guard	Polyamide resin	Polyamide resin, steel		
7	Adjusting dome	Polycarbonate resin			
8	O-ring	Nitrile rubber			
9	Filling plug	Polyacetal resin			

*1: The O-ring of the L1000-W has a special shape.