

D.P. Lube

Series *ALD600/900*

Centralized control of
multi-point lubrication
Low oil consumption volume

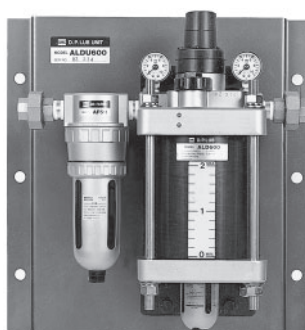
Simplified oil feeding
volume setting in which only
the pressure differential is
adjusted

Oil can be replenished by
merely opening and closing
the oil filler plug without
stopping the air line

The condition of the
generation of micromist can
be checked from the oil filler
port



ALD600



ALDU600 (With panel)

Standard Specifications

Model name	D.P. Lube		D.P. Lube Unit ⁽¹⁾	
Model	ALD600	ALD900	ALDU600	ALDU900
Port size Rc(PT) ⁽²⁾	^{3/4} 1	^{1 1/4} ^{1 1/2} 2	^{3/4} 1	^{1 1/4} ^{1 1/2} 2
Fluid	Air			
Proof pressure	1.5MPa			
Operating pressure range	0.1 to 1.0MPa		0.15 to 1.0MPa	
Operating press. differential range	0.03 to 0.1MPa			
Recommended press. differential	0.05MPa			
Press. differential setting min. flow ⁽³⁾	102 ℓ/min (ANR)			
Bowl capacity between levels	2000	5000	2000	5000
Recommended oil	Turbine oil class 1 (ISO VG32)			
Ambient and fluid temperature	5 to 60C			
Bowl material	Epoxy resin with glass fiber, Polycarbonate			
Weight (kg)	8.9	21.3	11.1(18.6) ⁽⁴⁾	31.6(48.1) ⁽⁴⁾



Note 1) D.P. Lube unit has an attached filter at primary side of D.P. Lube.

Note 2) Port of D.P. Lube unit is union.

Note 3) Condition: Primary pressure = 0.5MPa, Pressure differential = 0.05MPa

Note 4) () is weight with panel.

Accessory (Options) Part No.

Description	Model	Part No.			
		ALD600	ALD900	ALDU600	ALDU900
Bracket		126130P	126044P	126130P	126044P 113449 ⁽¹⁾ 113543 ⁽²⁾
Panel		—	—	12661P	12651-1P



Note 1) Bracket for filter mounting: For Rc(PT) $\frac{1}{4}$, $\frac{1}{2}$ } Thread machining on filter body is needed.

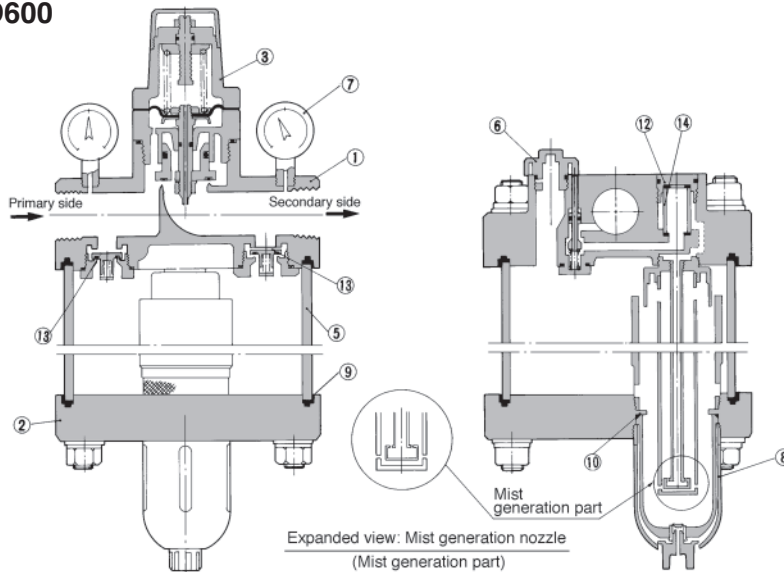
Note 2) Bracket for filter mounting: For Rc(PT) $\frac{1}{2}$

How to Order

EALD		9	00	—	20	
Style						
ALD	D.P. Lube (Single unit)					
ALDU	D.P. Lube unit					
Body size						
6	1B					
9	2B					
Thread						
—	Rc(PT)					
N	NPT					
Port size						
06	$\frac{3}{4}$					
10	1					
12	$1\frac{1}{4}$					
14	$1\frac{1}{2}$					
20	2					
Option						
—	—					
B	Bracket					
P	Panel					

Construction

ALD600



⚠ Precautions

Be sure to read before handling.
Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products in this catalogue, and refer to p.1.0-2 and 1.0-3 for precautions on every series.

Design

⚠ Warning

- ① Epoxy resin containing glass fiber and polycarbonate is used in some parts of the D.P. Lube and the D.P. Lube Unit. These units cannot be used in an environment or in a location that is exposed to synthetic oil, thinner, acetone, alcohol, organic solvents such as ethylene chloride, chemicals such as sulphuric acid or nitric acid, cutting oil, kerosene, gasoline, or a threadlock agent, etc., because they will be damaged.

Mounting/Adjustment

⚠ Caution

- ① Provide about 30cm of space above and below the D.P. Lube or the D.P. Lube Unit to facilitate their maintenance inspection.
- ② When the line is stopped, do not adjust or set the differential pressure, as it could cause the differential adjustment valve to break.
- ③ When setting the pressure differential, if there is a fluctuation in the operating flow rate, set the pressure differential at the lower flow rate range.

Piping

⚠ Warning

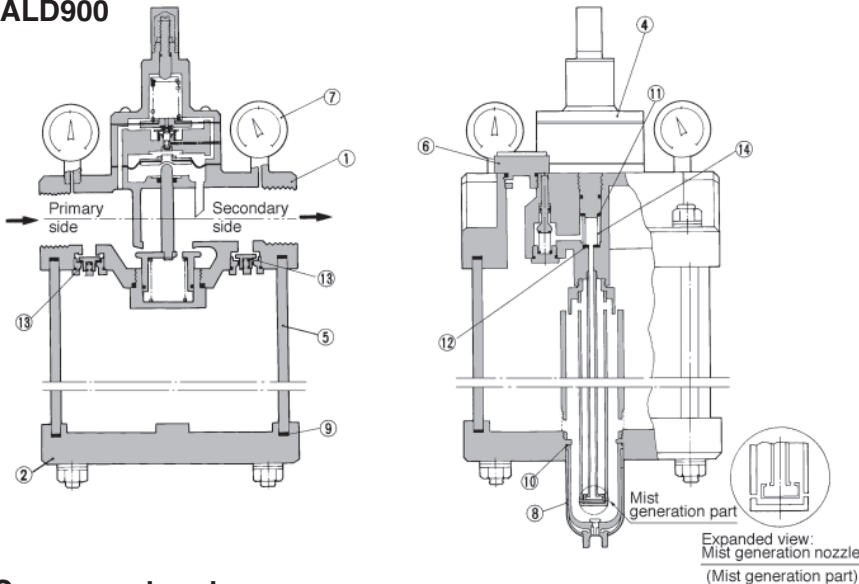
- ① The drain pipe for the air filter in the D.P. Lube Unit must have a minimum pipe bore of $\phi 10$, and a maximum length of 5m. Avoid using a riser pipe because it could cause the auto drain to malfunction.
- ② If installing an air tank, install it on the IN side of the D.P. Lube Unit. If it is installed on the OUT side, the micromist could be arrested by the air tank, which could lead to insufficient feeding of oil.

Maintenance

⚠ Warning

- ① Before removing the oil filler plug, loosen it two and half turns to completely release the pressure inside the case. This will prevent the oil filler plug from flying out.

ALD900



Component parts

No.	Description	Material	
		ALD600	ALD900
①	Body	Aluminum die cast	Aluminum die cast
②	Bottom cover	Aluminum die cast	Aluminum die cast

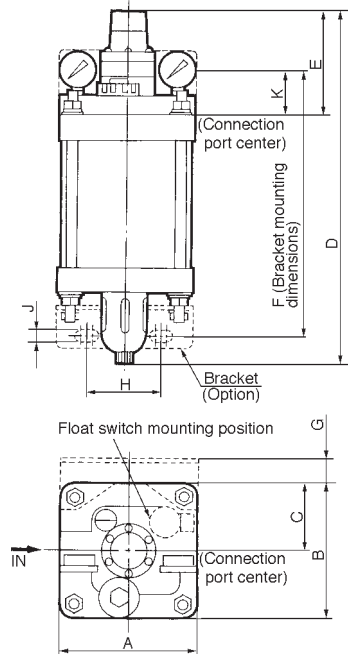
Replacement parts

No.	Description	Material	Part No.	
			ALD600	ALD900
③	Valve guide assembly	—	12612AP	—
④	Pilot body assembly	—	—	12609AP
⑤	Bowl assembly	Epoxy resin with glass fibre	126139-1A	126059-1A
⑥	Lubrication plug assembly	Zinc die cast, NBR	126115AP	126115AP
⑦	Pressure gauge (2 pcs.)	—	GA46-10-01	GA46-10-02
⑧	Bowl assembly	—	AF11-3	AF11-3
⑨	Sealing (2 pcs.)	NBR	126140	126060
⑩	O ring	NBR	11307	11307
⑪	Seal	NBR	—	126046
⑫	Seal	NBR	126047(2)	126047
⑬	Check valve assembly (2 pcs.)	—	126127A	126022A
⑭	Filter element	Bronze	11294-70B	11294-70B

ALD600/900

Dimensions

D.P. Lube **ALD600-□06 to 10. ALD900-□12 to 20**

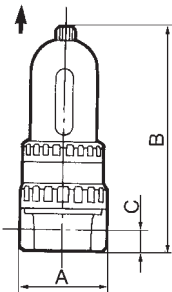


Model	Port size	A	B	C	D	E	Bracket dimensions				
							F	G	H	J	K
ALD600-□06 to 10	3/4, 1	175	175	87.5	460	135	345	32.5	95	14	57
ALD900-□12 to 20	1 1/4, 1 1/2, 2	250	250	125	613	209	419.2	0	120	14	49.6

Related equipment/Strainer

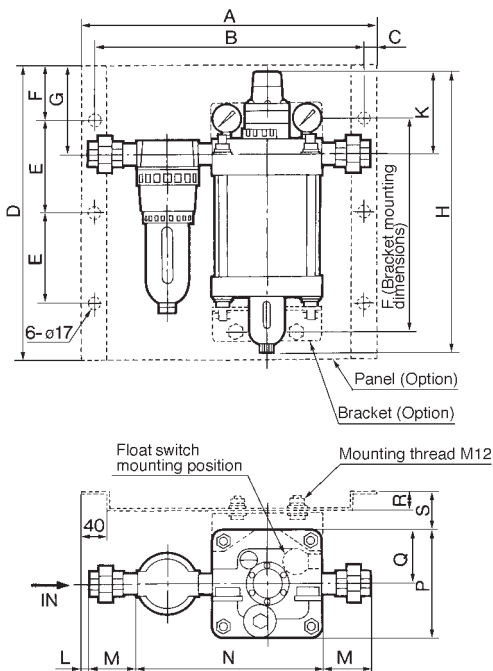
At the terminal of an air pressure line in which a D.P. Lube is used, install a strainer (filtration rate of 5μm) upstream with a metal seal solenoid valve, which is susceptible to dust.

Mounting orientation is Upper direction



Model	Port size Rc(PT)	A	B	C
INA-11-402	1/4	63	141	15
INA-11-403	3/8	63	164.5	15
INA-11-404	1/4, 3/8, 1/2	80	170	15
INA-11-405	3/4	85	180	20
INA-11-406	3/4, 1	90	230	22
INA-11-407	1	100	251	22

D.P. Lube Unit **ALDU600-□06 to 10, ALDU900-□12 to 20**



Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
ALDU600-□06	3/4	470	430	20	480	150	90	145	460	345	135	43	67	283	175	87.5	30	62.5
ALDU600-□10	1											10	77	296				
ALDU900-□12	1 1/4	710	670	20	700	230	120	222	615	419.2	209	57	85	424	250	125	33.2	33.2
ALDU900-□14	1 1/2								615			51	90	424				
ALDU900-□20	1								682			16	100	476				