

Lubricator

AL10-A to AL60-A

Symbol



AL10-A

AL20-A

AL40-A

How to Order

AL **30** - **03** **B** - **A**

1 2 3 4 5

- Option/Semi-standard: Select one each for **a** to **d**.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) AL30-03B-3RW-A

		Symbol	Description	1							
				Body size							
				10	20	30	40	50	60		
2	Pipe thread type	—	Metric thread (M5)	●	—	—	—	—	—		
			Rc	—	●	●	●	●	●		
		N	NPT	—	●	●	●	●	●		
		F	G	—	●	●	●	●	●		
+											
3	Port size	M5	M5 x 0.8	●	—	—	—	—	—		
		01	1/8	—	●	—	—	—	—		
		02	1/4	—	●	●	●	—	—		
		03	3/8	—	—	●	●	—	—		
		04	1/2	—	—	—	●	—	—		
		06	3/4	—	—	—	●	●	—		
		10	1	—	—	—	—	●	●		
+											
4	Option (Mounting)	—	Without mounting option	●	●	●	●	●	●		
		B Note 1)	With bracket	—	●	●	●	●	●		
+											
5	Semi-standard	a	Bowl Note 2)	—	Polycarbonate bowl	●	●	●	●	●	●
				2	Metal bowl	●	●	●	●	●	●
				6	Nylon bowl	●	●	●	●	●	●
				8	Metal bowl with level gauge	—	—	●	●	●	●
				C	With bowl guard	—	●	Note 3)	Note 3)	Note 3)	Note 3)
				6C	With bowl guard (Nylon bowl)	—	●	Note 4)	Note 4)	Note 4)	Note 4)
		+									
		b	Lubricant exhaust port	—	Without drain cock	●	●	●	●	●	●
				3	With drain cock	●	●	●	●	●	●
				3W Note 5)	Drain cock with barb fitting	—	—	●	●	●	●
		+									
		c	Flow direction	—	Flow direction: Left to right	●	●	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●	●	●
+											
d	Pressure unit	—	Name plate and caution plate: MPa	●	●	●	●	●	●		
		Z Note 6)	Name plate and caution plate: psi, °F	○ Note 7)	○ Note 7)	○ Note 7)	○ Note 7)	○ Note 7)	○ Note 7)		

Note 1) Option is not assembled and supplied loose at the time of shipment.

Note 2) Refer to Chemical data on page 68 for chemical resistance of the bowl.

Note 3) A bowl guard is provided as standard equipment (polycarbonate).

Note 4) A bowl guard is provided as standard equipment (nylon).

Note 5) The combination of metal bowl: 2 and 8 is not available.

Note 6) For pipe thread type: M5, NPT.

Note 7) ○: For pipe thread type: M5, NPT only

Standard Specifications

Model	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1
Fluid	Air						
Ambient and fluid temperature	−5 to 60°C (with no freezing)						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Minimum dripping flow rate [L/min (ANR)] ^{Note)}	4	15	1/4: 30 3/8: 40	1/4: 30 3/8: 40 1/2: 50	50	190	220
Oil capacity [cm³]	7	25	55	135			
Recommended lubricant	Class 1 turbine oil (ISO VG32)						
Bowl material	Polycarbonate						
Bowl guard	—	Semi-standard (Steel)	Standard (Polycarbonate)				
Weight [kg]	0.07	0.10	0.20	0.38	0.43	0.94	1.09

Note) · The flow rate is 5 drops or greater/min under the following conditions: Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.

· For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.

Option/Part No.

Optional specifications	Model						
	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A
Bracket assembly ^{Note)}	—	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P-050AS	

Note) Assembly of a bracket and 2 mounting screws

Bowl Assembly/Part No.

Bowl material	Lubricant exhaust port	Other	Model						
			AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A
Polycarbonate bowl	Without drain cock	—	C1SL-A	C2SL-A	—	—			
		With bowl guard	—	C2SL-C-A	C3SL-A	C4SL-A			
	With drain cock	—	C1SL-3-A	C2SL-3-A	—	—			
		With bowl guard	—	C2SL-3C-A	C3SL-3-A	C4SL-3-A			
	Drain cock with barb fitting	With bowl guard	—	—	C3SL-3W-A	C4SL-3W-A			
Nylon bowl	Without drain cock	—	C1SL-6-A	C2SL-6-A	—	—			
		With bowl guard	—	C2SL-6C-A	C3SL-6-A	C4SL-6-A			
	With drain cock	—	C1SL-36-A	C2SL-36-A	—	—			
		With bowl guard	—	C2SL-36C-A	C3SL-36-A	C4SL-36-A			
	Drain cock with barb fitting	With bowl guard	—	—	C3SL-36W-A	C4SL-36W-A			
Metal bowl	Without drain cock	—	C1SL-2-A	C2SL-2-A	C3SL-2-A	C4SL-2-A			
		With level gauge	—	—	C3LL-8-A	C4LL-8-A			
	With drain cock	—	C1SL-23-A	C2SL-23-A	C3SL-23-A	C4SL-23-A			
		With level gauge	—	—	C3LL-38-A	C4LL-38-A			

Note) · Bowl assembly for the AL20-A to AL60-A models comes with a bowl seal.

· Please consult with SMC separately for psi and °F unit display specifications.