Auto Feed Lube, Auto Feed Tank ALF400 to 900, ALT-5/-9

Standard Specifications

Model	Auto feed lube							Auto feed tank		
wodei	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	ALT-5	ALT-5-IS-1	ALT-9	ALT-9-IS-1
Port size	1/4 3/8 1/2	3/4	3/ ₄	1	1 1/4 1 1/2	2		AIR:		
Fluid	1/2					ir		OIL.	76	
Proof pressure						MPa				
Max. operating pressure			0.7 I	МРа				1.0 N	/IPa	
Operating pressure differential range (Note 1) (Difference between tank pressure and line pressure)			0.1 to 0	.6 MPa			_			
Vibration resistance (Pressure differential 0.3 MPa)		1	G (9.81 m/	sec²) or les	ss			_	_	
Min. operating flow (Note 2) (L/min (ANR))	1/4: 65 3/8: 100 1/2: 120	120	190	220	1 ¹ / ₄ : 460 1 ¹ / ₂ : 650	1800	_			
Bowl capacity (cm³) (Note 3) (Capacity between levels)							9000 (6000)			
Recommended lubricant	Turbine oil Class 1 (With no additives), ISO VG32									
Ambient and fluid temperature	−5 to 60°C (No freezing)									
Bowl material	Polycarbonate Metal (Steel tubing for machine construction							onstruction)		
Weight (kg)	0.85	0.88	1	1.15	1.85	1.9	12.6	13.2	26.0	26.6
Accessory (Standard) Bowl guard	•	•	•	•	•	•			_	

Note 1) Tank pressure is the pressure of Auto Feed Tank and line pressure is the pressure of Auto Feed Lube.

Note 2) Conditions: Inlet pressure 0.5 MPa, 5 drops/min, Turbine oil class 1 (with no additives) ISO VG32, Temperature 20°C, Needle fully open. Use air consumption rate for minimum operating flow.

Note 3) Capacity between levels: in the case of float switch equipped model, the capacity is measured in levels between the level gauge upper limit and the lower limit of the float switch detective range.

The problem of running out of oil is prevented because the oil is fed automatically.

This system makes lubrication work unnecessary, thus significantly reducing the amount of maintenance labor.

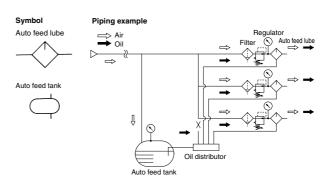
Accessory (Option) Part No.

	Part no.							
Description Mode/	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900		
Bracket	B44P	B44-1P	³ ⁄ ₄ : B45-1P 1: B45-2P	B46P	_	1		

significantly Note) A float switch can not be mounted on "ALT-5" or "ALT-9" afterwards.





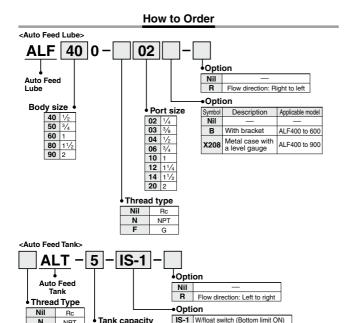


ØSMC

AL800 AL900

ALD LMU ALIP

ALF400 to 900, ALT-5/-9 Series



Working Principle/Auto Feed Lube

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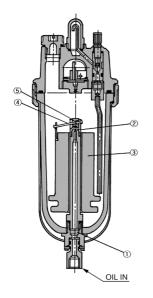
Tank capacity

5000 cm3 tank 9 9000 cm³ tank

N

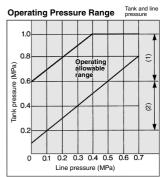
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The oil that has been pumped from the tank passes through felt (1) where it is filtered, and is fed into the case through nozzle 2. When the volume of oil reaches a certain level, float 3 ascends, valve 5 descends via lever 4, nozzle 2 closes, and the feeding of oil stops, thus completing the oil feeding process. When the oil inside the case is consumed, float 3 descends, valve 5 ascends via lever 4, allowing oil to be fed from nozzle 2.

IS-2 W/float switch (Bottom limit OFF)



Note 1) Tank pressure is removed when line

pressure is stopped. Note 2) Tank pressure is kept same when line pressure is stopped possible to use.

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 387 to 391 for Precautions on every series.

Mounting

If the pressure is discharged, the oil could flow back if the operating pressure differential range (the differential between the tank and line pressures) exceeds 0.6 MPa. Therefore, make sure to also discharge the tank pressure.

∆ Caution

Install the float vertically inside the bowl so that it will not come into contact with the siphon tube, preventing the oil from dripping poorly.

Maintenance

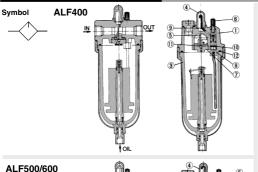
∆ Caution

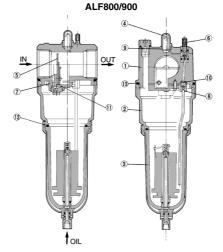
Oil cannot be fed into Auto Feed Lube under being pressurized. We recommend oil is supplied from cam handle (plug for oil supply) of an auto feed tank.



Auto Feed Lube ALF400 to 900 Series Auto Feed Tank ALT-5/-9 Series

Construction: Auto Feed Lube



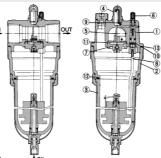


AL800 AL900 ALF ALT ALD ALB

ALIP

AEP HEP

ALF500/600 (The figure shows the ALF600.)



Component Parts

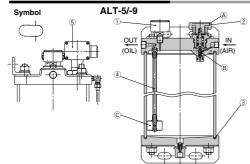
NI-			Note		
No.	Description	ALF400, 400-06	ALF500, 600	ALF800, 900	Note
1	Body	Aluminum			Platinum silver painted
2	Housing	_	Aluminum	die-casted	Platinum silver painted

Replacement Parts

NI-	No. Description		Matarial	Part no.								
IVO.	No. Description	puon	Material	ALF400	ALF400 ALF400-06 ALF500 ALF60		ALF600	ALF800	ALF900	Qty.		
3	Auto feed Standard			ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	1		
<u> </u>	Auto leed	X208		ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208			
4	Sight dome		Polycarbonate	12316	12316	12316	12316	12316	12316	1		
5	Bumper assembly		_	123122-3A (04) 123122-2A (03) 123122-1A (02)	123122-3A	123210A	123310A	123417A (12) 123416A (14)	12356A	1		
6	Needle stud assembly		_	123128PA	123128PA	123128PA	123128PA	123128PA	123128PA	1		
7	Retainer assembly		_	123182 Note1)	123182 Note1)	12325 Note2)	12335A-1	123032 Note 1)		1		
8	Siphon tube assembly		_	124230A	124230A	124231A	124232A	124232A	124232A	1		
9	Sight dome seal		Urethane rubber	12318	12318	12318	12318	12318	12318	1		
10	Siphon nut seal		Urethane rubber	123111	123111	123111	123111	123111	123111	1		
11	Bumper retainer seal		NBR	123126	123126	123213	123313	123011	_	2 (1) ^{Note3)}		
12	Bowl O-ring		NBR	113136	113136	113136	113136	113136	113136	1		
13	Housing O-ri	ng	NBR	_	_	KA00465	KA00466	KA00466	KA00466	1		

Note 1) Description: Bumper retainer, Material: POM Note 2) Description: Bumper retainer, Material: Aluminum alloy Note 3) (): Qty. for ALF800 only

Construction: Auto Feed Tank



Working principle/Auto Feed Tank

By turning cam handle $_{\textcircled{\tiny 0}}$ 90° clockwise, valve $_{\textcircled{\tiny 0}}$ opens, allowing the air that has entered from the IN side to be introduced into the tank. Due to the air pressure, the oil in the tank passes through felt $_{\textcircled{\tiny 0}}$ and exits from the OUT side. Turning cam handle $_{\textcircled{\tiny 0}}$ 90° counterclockwise stops the air from the IN side, thus stopping the feeding of the oil.

Component Parts

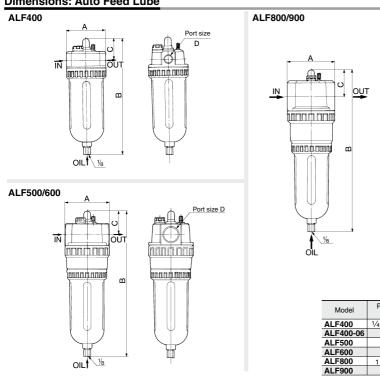
No.	Dii		Part no.						
No. De	Description	Malenai	(N, E) ALT-5	N, E) ALT-5 (N, E) ALT-5-IS-1, 2 (N, E) ALT-9 (N, E) ALT-9-IS-1, 2					
			G46-10-02(Nil, E)						
٠.	1 Pressure gauge	_		G46-P10-N02-X03(N)					
2	Cam handle assembly	_	12374AP				1		
3	Seal	NBR	12377 12384		2384	2			
4	Siphon tube assembly	_	123712A				1		
5	Float switch	_	_	IS410-1, 2	_	IS410-1, 2	1		

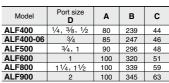
^{*} IS410-1: Bottom limit ON IS410-2: Bottom limit OFF



ALF400 to 900, ALT-5/-9 Series

Dimensions: Auto Feed Lube

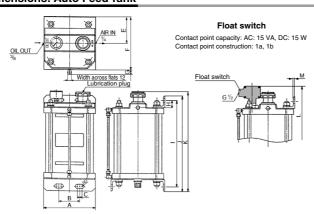




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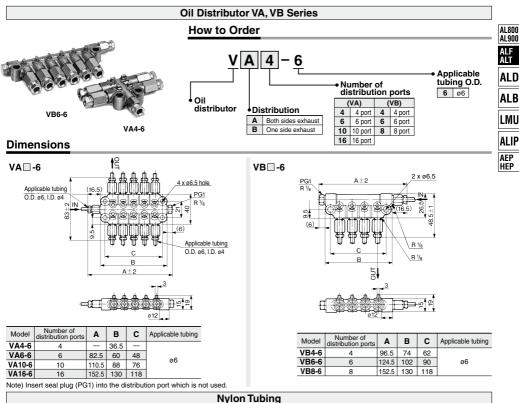
Port size D

Dimensions: Auto Feed Tank



Model	Α	В	С	D	E	F	G	Н	ı	J	K	L	M
ALT-5	174	70	16	7	91	182	15	24	382	414	428	_	5
ALT-5-IS	174	70	16	7	91	182	15	24	382	414	428	449	5
ALT-9	234	108	30	7	121	242	16	40	422	472	_	_	5
ALT-9-IS	234	108	30	7	121	242	16	40	422	472	_	482	5

ALF400 to 900, ALT-5/-9 **Related Products:**





Specifications

Model	T0604
Max. operating pressure	1.5 MPa
Burst pressure	Refer to the burst pressure characteristics curve.
Min. bending radius (mm) Note)	24
Operating temperature	-20°C to 60°C
Material	Nylon 12

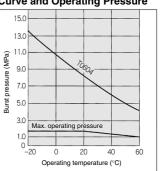
Note) The value at temp. of 20°C and with O.D. variable rate 10% max

How to Order

G Green



Burst Pressure Characteristics Curve and Operating Pressure



* Maximum operating pressure is 1/3 max. of burst pressure at 60°C, considering the safety ratio.