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

Standard Specifications

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N 1 - 1 - 1	Auto feed lube						Auto feed tank			ALI	
Model	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	ALT-5	ALT-5-IS-2	ALT-9	ALT-9-IS-2	ALD
Port size	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						ALB				
Fluid		Air					LMU				
Proof pressure		1.5 MPa					LIVIU				
Max. operating pressure			0.7	MPa				1.0	ИРа		ALIP
Operating pressure differential range (Note 1) (Difference between tank pressure and line pressure)	0.1 to 0.6 MPa						AEP				
Vibration resistance (Pressure differential 0.3 MPa)		1 G (9.81 m/sec ²) or less									
Min. operating flow ^(Note 2) (L/min (ANR))	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
Bowl capacity (cm ³) ^(Note 3) (Capacity between levels)											
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	$\bullet \bullet \bullet \bullet \bullet \bullet -$										

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.

Description Mode/	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900
Bracket	B44P	B44-1P	³ ⁄4: B45-1P 1: B45-2P	B46P	_	—

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



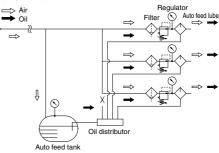










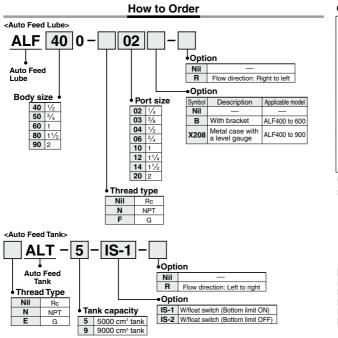


SMC

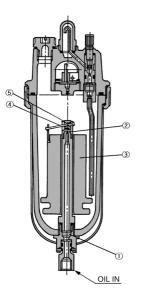
AL800 AL900

ALF ALT

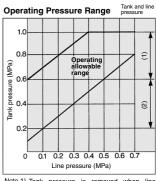
Series ALF400 to 900, ALT-5/-9



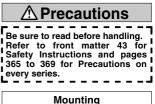
Working Principle/Auto Feed Lube



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 ③, 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 ③, allowing oil to be fed from nozzle ②.



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.



∧Warning

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.

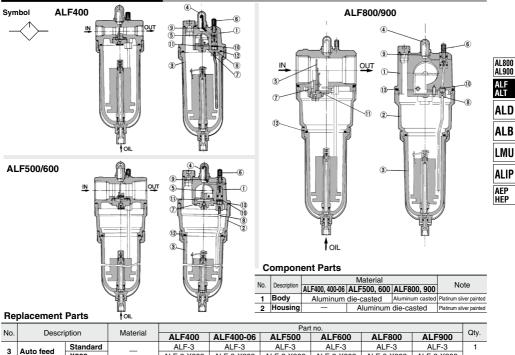
Maintenance

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

Construction: Auto Feed Lube

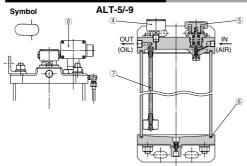


	No. Description									
INO.			Material	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	Qty.
~	3 Auto feed Standard X208			ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	1
3				ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	
4	4 Sight dome		Polycarbonate	12316	12316	12316	12316	12316	12316	1
5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

Note 1) Description: Bumper retainer, Material: POM

Note 2) (): Qty. for ALF800 only

Construction: Auto Feed Tank



Working principle/Auto Feed Tank

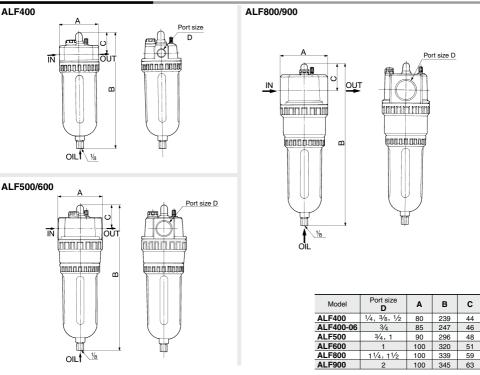
By turning cam handle $@90^\circ$ clockwise, valve @ opens, allowing the air that has entered from the IN side to be introduced into the tank. Due to the air pressure, the oil in the tank passes through felt @and exits from the OUT side. Turning cam handle $@90^\circ$ counterclockwise stops the air from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

Component Parts

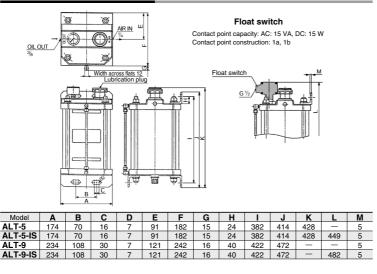
			Part no. (N, E) ALT-5 (N, E) ALT-5-IS-1, 2 (N, E) ALT-9 (N, E) ALT-9-IS-1, 2					
No.	Description	material	(N, E) ALT-5	(N, E) ALT-5-IS-1, 2	(N, E) ALT-9	(N, E) ALT-9-IS-1, 2	Qty.	
4			G46-10-02(Nil, E)					
4	Pressure gauge	-	G46-P10-N02(N)					
5	Cam handle assembly	—	12374AP					
6	Seal	NBR	12377 12384			2384	2	
7	Siphon tube assembly	—	123712A		1			
8	Float switch	-	-	IS410-1, 2	_	IS410-1, 2	1	

Series ALF400 to 900, ALT-5/-9

Dimensions: Auto Feed Lube

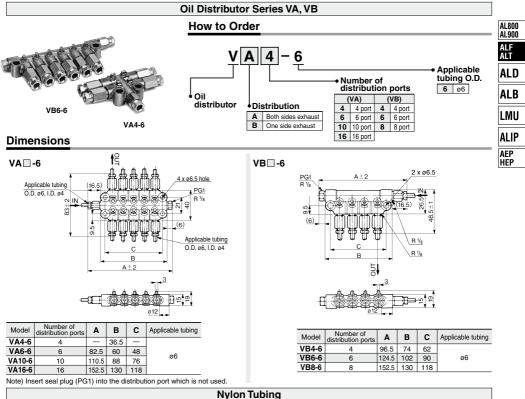


Dimensions: Auto Feed Tank





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

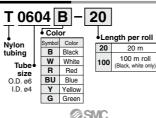




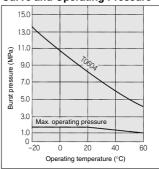
Specifications

opcomoutions						
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.						

How to Order



Burst Pressure Characteristics Curve and Operating Pressure



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