

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

Standard Specifications

Model	Auto feed lube						Auto feed tank			
woder	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	ALT-5	ALT-5-IS-12	ALT-9	ALT-9-IS-12
Port size	1/4 3/8	3/4	3/4	1	1 1/4	2		AIR:		
	1/2	/4	1		1 ¹ /2	2		OIL :	3/8	
Fluid					A	ir				
Proof pressure	1.5 MPa									
Max. operating pressure	0.7 MPa 1.0 MPa									
Operating pressure differential range (Note 1) (Difference between tank pressure and line pressure)			0.1 to 0	0.1 to 0.6 MPa						
Vibration resistance (Pressure differential 0.3 MPa)	1 G (9.81 m/sec ²) or less									
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 (cm ³) ^(Note 3) (Capacity between levels)						5000 (4400)	5000 (3400)	9000 (7800)	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 construct					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.

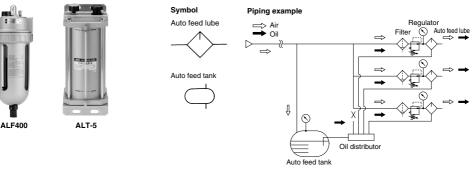
The problem of running out of oil is prevented because the oil is fed automatically.

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	-	-		

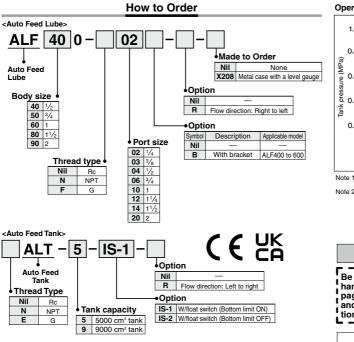
significantly Note) A float switch can not be mounted on "ALT-5" or "ALT-9" afterwards.



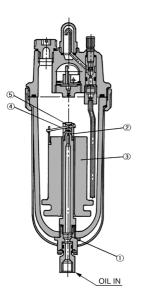
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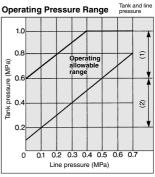
Auto Feed Lube ALF400 to 900 Series Auto Feed Tank ALT-5/-9 Series



Working Principle/Auto Feed Lube

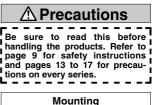


The oil that has been pumped from the tank passes through felt 0 where it is filtered, and is fed into the case through nozzle 0. When the volume of oil reaches a certain level, float 0 ascends, valve 0 descends via lever 0, nozzle 0 closes, and the feeding of oil stops, thus completing the oil feeding process. When the oil inside the case is consumed, float 0 descends, valve 0 ascends via lever 0, nozzle 0.



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.

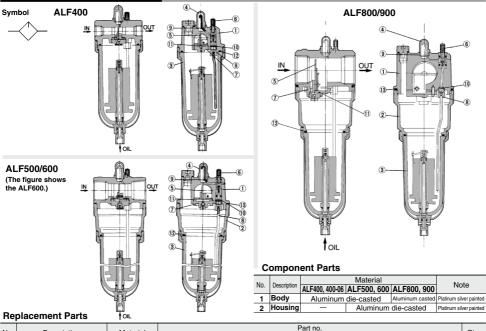
Maintenance

▲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.

ALF400 to 900/ALT-5,-9

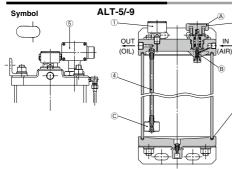
Construction: Auto Feed Lube



N	No. Description		Material	Part no.						
INO.			Iviaterial	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 Note 1)	123182 Note1)	12325 Note2)	12335A-1	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) Note3)
12	2 Bowl O-ring		NBR	113136	113136	113136	113136	113136	113136	1
13	3 Housing O-ring NBR		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 $\bigotimes 90^\circ$ clockwise, valve $\bigotimes 0$ 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 $\bigotimes and$ exits from the OUT side. Turning cam handle $\bigotimes 90^\circ$ counterclockwise stops the air from the IN side, thus stopping the feeding of the oil.

Component Parts

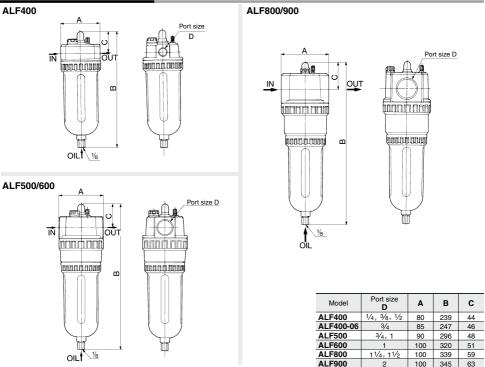
No.	D		Part no. (N, E) ALT-5 (N, E) ALT-5-IS-1, 2 (N, E) ALT-9 (N, E) ALT-9-IS-1, 2							
No. Description		materiai	(N, E) ALT-5	(N, E) ALT-5-IS-1, 2	(N, E) ALT-9	(N, E) ALT-9-IS-1, 2	Qty.			
	1 Pressure gauge		G46-10-02(Nil, E)							
1				G46-P10-N02-X03(N)						
2	Cam handle assembly	-	12374AP							
3	3 Seal		12377 12384							
4	Siphon tube assembly -		123712A							
5	5 Float switch		—	IS410-1, 2	—	IS410-1, 2	1			
÷ 10	S410.1: Bottom limit ON									

IS410-1: Bottom limit ON IS410-2: Bottom limit OFF

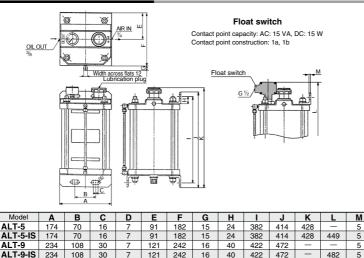
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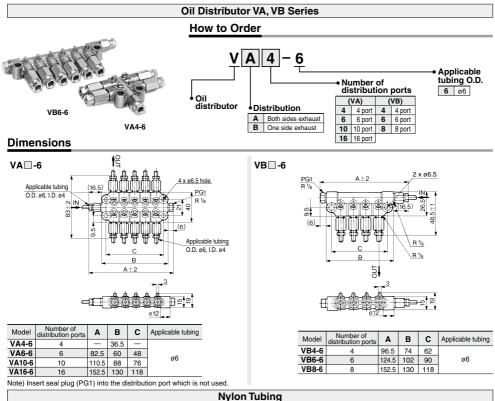
Dimensions: Auto Feed Lube



Dimensions: Auto Feed Tank



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

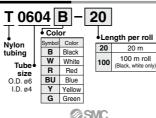




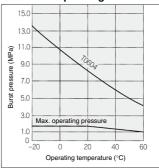
Specifications

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.						

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.