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

Standard Specifications

Model			Auto fe	ed lube				Auto fee	ed 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	3/4	3/4	1	1 ¹ / ₄	2		AIR:		
. 0.1 0.20	3/ ₈ 1/ ₂	/4	1		1 1/2	_		OIL:	3/8	
Fluid					Α	ir				
Proof pressure					1.5 l	MРа				
Max. operating pressure			0.7 [MРа				1.0 N	ИРа	
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 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 (cm³) ^(Note 3) (Capacity between levels)							5000 (4400)	5000 (3400)	9000 (7800)	9000 (6000)
Recommended lubricant			Tu	rbine oil Cla	ass 1 (With	no additive	es), ISO VO	332		
Ambient and fluid temperature	−5 to 60°C (No freezing)									
Bowl material	Polycarbonate Metal (Steel tubing for a					machine co	onstruction)			
Mass (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.

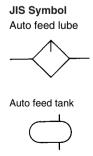
11			Part	no.		
Description Mode/	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900
Bracket	B44P	B44-1P	³ ⁄ ₄ : B45-1P 1: B45-2P	B46P	_	_

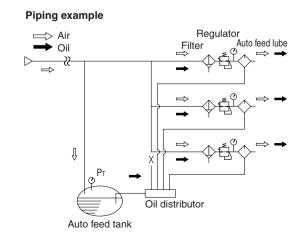
Note) A float switch can not be mounted on "ALT-5" or "ALT-9" afterwards.











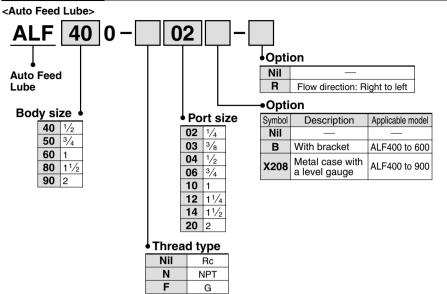
ALD ALB

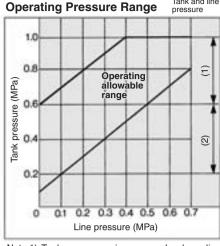
LMU **ALIP**



Series ALF400 to 900/ALT-5, -9

How to Order



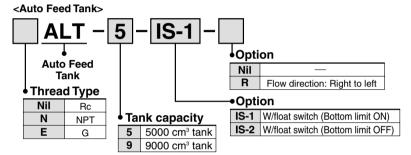


Tank and line

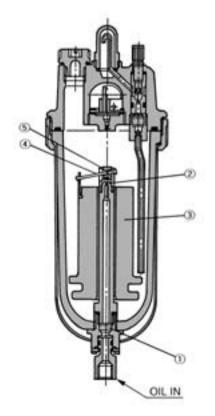
Note 1) Tank pressure is removed when line

pressure is stopped.

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



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 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).

Precautions

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Precautions and pages 287 to 291 for Precautions on every series.

Mounting

∆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

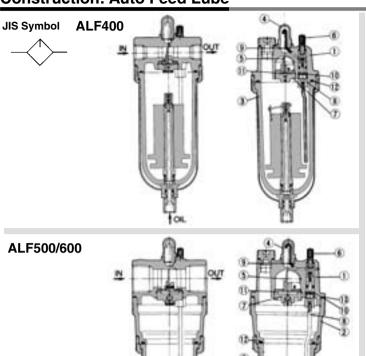
∧ Caution

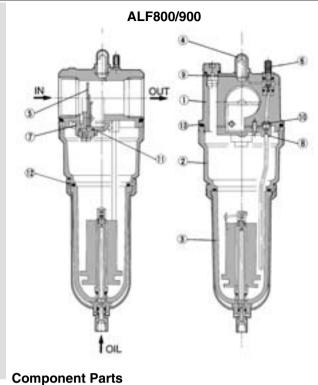
Oil cannot be fed into Auto Feed Lube under being pressurized. We recommend oil is supplied from cam handle (plug for oil supply) of an auto feed tank.



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

Construction: Auto Feed Lube





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

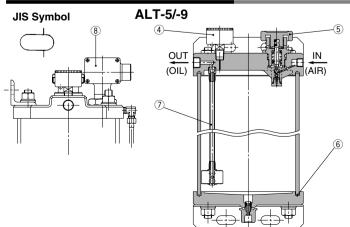
No.	Deceri	ntion	Matarial	Material Part no.								
INO.	o. Description		Material	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	Qty.		
3	Auto feed	Standard		ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	1		
	Auto leed	X208		ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208	ALF-3-X208			
4	Sight dome		Polycarbonate	12316	12316	12316	12316	12316	12316	1		
5	Bumper asse	embly	_	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 ass	embly		123182 Note1)	123182 Note1)	12325A	12335A	123032 Note1)	_	1		
8	Siphon tube	assembly	_	124230A	124230A	124231A	124232A	124232A	124232A	1		
9	Sight dome s	seal	Urethane rubber	12318	12318	12318	12318	12318	12318	1		
10	Siphon nut s	eal	Urethane rubber	123111	123111	123111	123111	123111	123111	1		
11	Bumper reta	iner seal	NBR	123126	123126	123213	123313	123011	_	2 (1) Note2)		
12	Bowl O-ring		NBR	113136	113136	113136	113136	113136	113136	1		
13	Housing O-ri	ng	NBR	_	_	JIS B2401 G80	JIS B2401 G90	JIS B2401 G90	JIS B2401 G90	1		

Note 1) Description: Bumper retainer, Material: POM

Note 2) (): Qty. for ALF800 only

Replacement Parts

Construction: Auto Feed Tank



Working principle/Auto Feed Tank

By turning cam handle @ 90° 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° counterclockwise stops the air from the IN side, thus stopping the feeding of the oil.

Component Parts

_										
Ī	No.	Description	Motorial	Part no. (N, E) ALT-5 (N, E) ALT-5-IS-1, 2 (N, E) ALT-9 (N, E) ALT-9-IS-						
	INO.	Description	Malenai	(N, E) ALT-5	(N, E) ALT-5-IS-1, 2	(N, E) ALT-9	(N, E) ALT-9-IS-1, 2	Qty.		
	4	Pressure gauge			G46-10-	02(Nil, E	Ξ)	4		
	4	riessure gauge	_	G46-P10-N02(N)						
	5	Cam handle assembly	_		1237	74AP		1		
	6	Seal	NBR	12377 12384			2384	2		
	7	Siphon tube assembly	_	123712A				1		
-	8	Float switch	_	_	IS410-1, 2	_	IS410-1, 2	1		

AL800 AL900

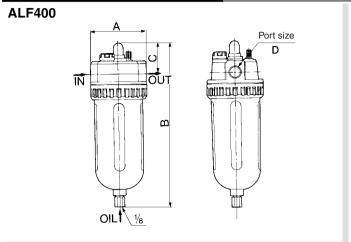
ALD

ALB LMU

ALIP

Series ALF400 to 900/ALT-5, -9

Dimensions: Auto Feed Lube



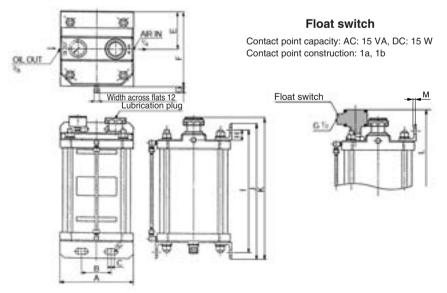
ALF500/600 Port size D OIL 1/8

Port size D

ALF800/900

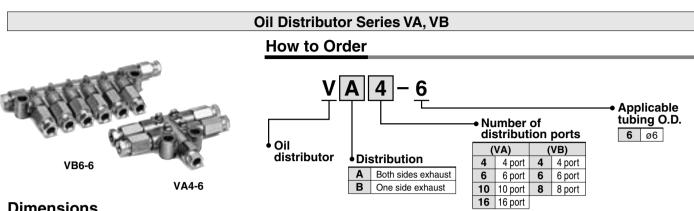
Model	Port size D	Α	В	С
ALF400	1/4, 3/8, 1/2	80	239	44
ALF400-06	3/4	85	247	46
ALF500	3/4, 1	90	296	48
ALF600	1	100	320	51
ALF800	11/4, 11/2	100	339	59
ALF900	2	100	345	63

Dimensions: Auto Feed Tank

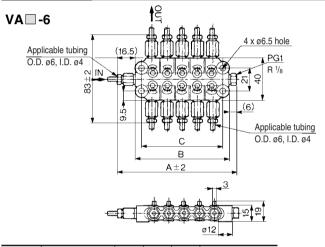


Model	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
ALT-5	174	70	16	7	91	182	15	24	382	414	428	_	5
ALT-5-IS	174	70	16	7	91	182	15	24	382	414	428	449	5
ALT-9	234	108	30	7	121	242	16	40	422	472	_	_	5
ALT-9-IS	234	108	30	7	121	242	16	40	422	472	_	482	5

Oil Distributor VA, VB/Nylon Tubing **Related Products:**



Dimensions



Model	Number of distribution ports	Α	В	С	Applicable tubing
VA4-6	4	_	36.5	_	
VA6-6	6	82.5	60	48	ø6
VA10-6	10	110.5	88	76	00
VA16-6	16	152.5	130	118	

Note) Insert seal plug (PG1) into the distribution port which is not used.

VB **□** -6 2 x ø6.5 R 1/8 팅

Model	Number of distribution ports	Α	В	С	Applicable tubing
VB4-6	4	96.5	74	62	
VB6-6	6	124.5	102	90	ø6
VB8-6	8	152.5	130	118	

Nylon Tubing



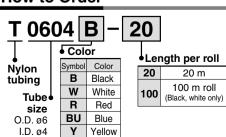
Specifications

T0604				
1.5 MPa				
Refer to the burst pressure characteristics curve.				
24				
−20°C to 60°C				
Nylon 12				

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

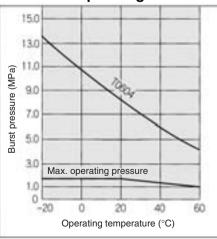
How to Order

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.

AL800 AL900 ALF

ALD

ALB

LMU

ALIP

