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

Standard Specifications

Model			Auto fe	ed 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 ½ 1½	2	AIR: 1/4 OIL: 3/8			
Fluid	-/2		-			l		OIL.	70	
Proof pressure					1.5	MPa				
Max. operating pressure			0.7	MPa				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)			_				5000 (4400)	5000 (3400)	9000 (7800)	9000 (6000)
Recommended lubricant			Tu	rbine oil Cl	ass 1 (With	no additive	s), ISO V	G32		
Ambient and fluid temperature	−5 to 60°C (No freezing)									
Bowl material			Polyca	rbonate			Metal (Ste	eel tubing for i	machine co	onstruction)
Weight (kg)	t (kg) 0.85 0.88 1 1.15 1.85 1.9 12.6 13.2 26.0			26.6						
Accessory (Standard) Bowl guard	•	•	•	•	•	•		<u> </u>		

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.

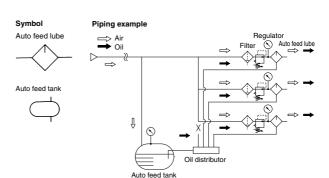
ØSMC

	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.





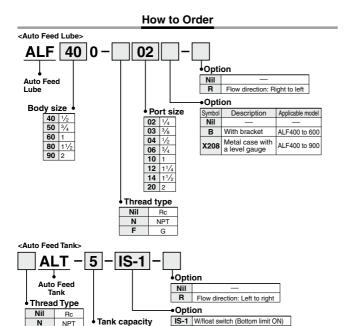


ALE ALT ALD

ALB

ALIP AEP HEP

ALF400 to 900, ALT-5/-9 Series



Working Principle/Auto Feed Lube

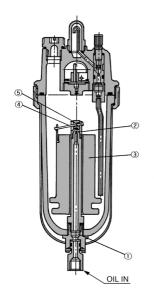
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5000 cm3 tank 9 9000 cm³ tank

N

Е

G



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)

Tank and line pressure Operating Pressure Range 1.0 0.8 Operating pressure (MPa) range 8 Fank 0.2 0.3 0.4 0.5 0.6 0.7 Line pressure (MPa)

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

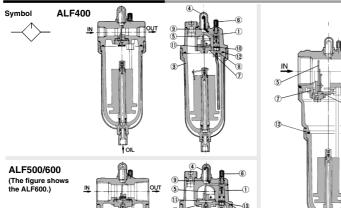
∆ Caution

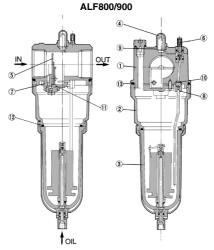
Oil cannot be fed into Auto Feed Lube under being pressurized. We recommend oil is supplied from cam handle (plug for oil supply) of an auto feed tank.



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

Component Parts

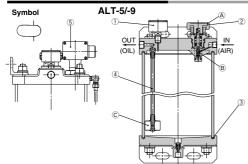
NI-			Note		
No.	Description	ALF400, 400-06	ALF500, 600	ALF800, 900	Note
1	Body				Platinum silver painted
2	Housing	_	Aluminum	die-casted	Platinum silver painted

Replacement Parts

	piacomonic		10.2							
NI-	D		Material			Part	no.			Otto
No.	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 ieeu	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 asso	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)	12325 Note2)	12335A-1	123032 Note1)	_	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 s	eal	Urethane rubber	123111	123111	123111	123111	123111	123111	1
11	Bumper reta	iner 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-r	ing	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.

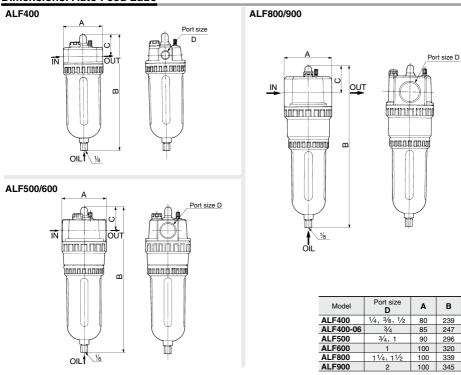
Component Parts

No.	Dii				Qtv.				
IVO.	Description	Materiai	(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					
	Pressure gauge			G46-10-02(Nil, E)					
'	Pressure gauge	_		G46-P10-N02-X03(N)					
2	Cam handle assembly	_	12374AP				1		
3	Seal	NBR	1	12377		12384			
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

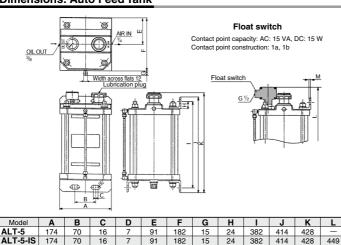
ALF400 to 900, ALT-5/-9 Series

Dimensions: Auto Feed Lube



В С

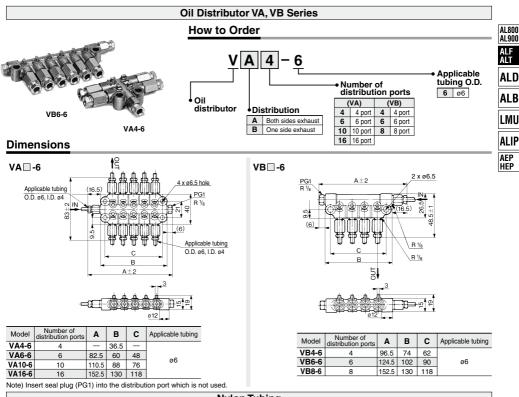
Dimensions: Auto Feed Tank



ALT-9

ALT-9-IS

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



Nylon Tubing



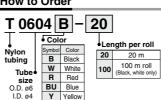
Specifications

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		

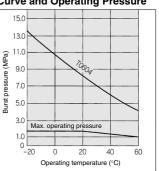
Note) The value at temp. of 20°C and with O.D. variable rate 10% max

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.

Specialty Lubricators NALF Series

Auto Feed Lubricators NALF400, 400-06, 500, 600, 800, 900





Lubricator NALF400

Tank NALT-5

Specifications

Auto Feed Lube NALF	NALF400	NALF400-N06	NALF500	NALF600	NALF800	NALF900
Max. supply pressure psig (MPa)	220 (1.5)					
Max. operating pressure psig (MPa)	100 (0.7)					
Pressure differential operating range* psig (MPa)	15~90 (0.1~0.6)					
Operating temp. range	40° ~140° F					
Recommended lubricant	Turbine Oil #1 (ISO VG32)					
Bowl	Polycarbonate					

Auto Feed Tank NALT	NALT-5	NALT-5-1S-*1	NALT-9	NALT-9-1S-*1		
Max. supply pressure psig (MPa)	220 (1.5)					
Max. operating pressure psig (MPa)	150 (1.0)					
Operating temp. range	23° ~140° F (-5° ~60° C)					
Recommended lubricant	Turbine Oil #1 (ISO VG32)					
Body	ADC					

^{*}Between tank and line pressure

Auto Feed Lubricator NALF Series

Model	N.	ALF4	00	NALF400-N06	NALF500		NALF600	NAL	F800	NALF900
Pipe size	1/8	3/8	1/2	3/4	3/4	1	1	1-1/4	1-1/2	2
Min. flow for oil drip scfm	2.2	3.5	4.2	4.2	6	.6	7.7	16.1	23	63
Weight lbs (kgf)	1.8	37 (0.8	35)	1.94 (0.88)	2.21	(1.0)	2.54 (1.15)	4.08	(1.85)	4.19 (1.9)
Bowl guard (standard)		•		•	•	•	•	•	•	•
Bracket		B44P		B44-1P	B45-1P	B45-2P	B46P	-	_	_

 $^{^{\}star}$ With supply pressure of 73 psig oil drip rate 5 drops/min, use turbine oil #1 VG32, Temperature 68 $^{\circ}$ F

Auto Feed Tank NALT Series

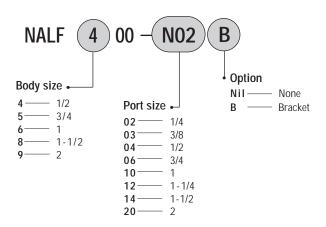
Model	NALT-5	NALT-5-IS-*1~2	NALT-9	NALT-9-IS-*1~2
Pipe size		Air IN: 1/4	, OUT: 3/8	
Oil capacity oz (cm3)	169 (5000)	169 (5000)	304 (9000)	304 (9000)
Weight lbs (kgf)	27.8 (12.6)	29.1 (13.2)	57.3 (26.0)	58.7 (26.6)
Float switch specification*	_		_	
Voltage	_	100V 0.25A	_	100V 0.25A

^{*}Float switch: Both a low level and high level float switch is available. Add Suffix 1 for a low level (Float down ON), 2 for high level switch (Float down OFF).

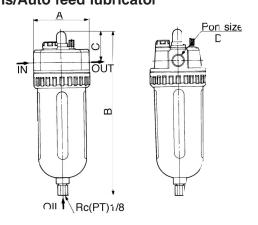


Auto Feed Lubricators NALF400, 400-06, 500, 600, 800, 900

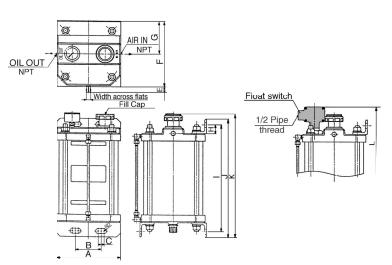
How To Order



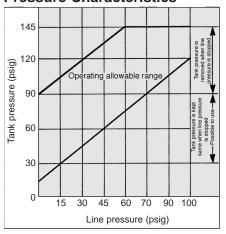
Dimensions/Auto feed lubricator



Dimensions/Auto feed tank



Pressure Characteristics



Model	А	В	С	Port Size D
NALF400	3.15	9.39	1.73	1/4 • 3/8 • 1/2
	(80)	(238.5)	(44)	17 1 0/0 1/2
NALF400-N06	3.35	9.70	1.81	3/4
NALI 400-1100	(85)	(246.5)	(46)	3/4
NALF500	3.54	11.63	1.89	3/4 • 1
NALI 300	(90)	(295.5)	(48)	3/4 • 1
NALF600	3.94	12.58	2.01	1
NALFOOD	(100)	(319.5)	(51)	l I
NALF800	3.94	13.33	2.32	1-1/4 • 1-1/2
NALI 000	(100)	(338.5)	(59)	1-1/4 • 1-1/2
NALF900	3.94	13.56	2.48	2
NALFSOO	(100)	(344.5)	(63)	

Oil Distributor

Model	Number of oil outlets	Remark
VA4	4	Both ends
VA6	6	Both ends
VA10	10	Both ends
VA16	16	Both ends
VB4	4	One side
VB6	6	One side
VB8	8	One side

Float Switch Specifications

IS410-1~2
AC: 15VA, DC: 15W
AC100V, DC250V
220 (1.5)
150 (1.0)
Water, Oil
40~140° F (5~60° C)

Model	А	В	С	D	Е	F	G	Н	1	J	K	L
ALT-5	6.85 (174)	2.76 (70)	.63 (16)	.28 (7)	3.58 (91)	4.17 (106)	7.76 (197)	.94 (24)	15.04 (382)	16.30 (414)	16.85 (428)	_
ALT-5-IS	6.85 (174)	2.76 (70)	.63 (16)	.28 (7)	3.58 (91)	4.17 (106)	7.76 (197)	.94 (24)	15.04 (382)	16.30 (414)	16.85 (428)	17.68 (449)
ALT-9	9.21 (234)	4.25 (108)	1.18 (30)	.28 (7)	4.76 (121)	5.39 (137)	10.16 (258)	1.57 (40)	16.61 (422)	18.58 (472)	_	_
ALT-9-IS	9.21 (234)	4.25 (108)	1.18 (30)	.28 (7)	4.76 (121)	5.39 (137)	10.16 (258)	1.57 (40)	16.61 (422)	18.58 (472)	_	18.98 (482)