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

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Standard Specifications

Model	Auto feed lube						Auto feed tank			
WOUEI	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	ALT-5	ALT-5-IS-2	ALT-9	ALT-9-IS-2
Port size	1/4 3/8 1/2	3/4	³ ⁄4 1	1	1 ¹ /4 1 ¹ /2	2		AIR: OIL:		
Fluid					А	ir				
Proof pressure					1.5	MPa				
Max. operating pressure			0.7	MPa				1.0 N	/IPa	
Operating pressure differential range ⁽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/sec ²) or less -								
Min. operating flow ⁽²⁾ (//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) ⁽³⁾ (Capacity between levels)	_					<u> </u>	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 construction)									
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.

JIS Symbol

Auto feed lube

Auto feed tank

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.

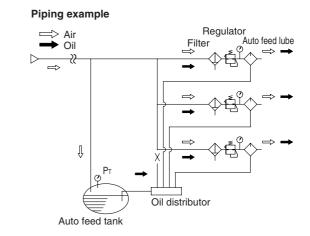
This system makes lubrication work unnecessary, thus significantly reducing the amount of maintenance labor.



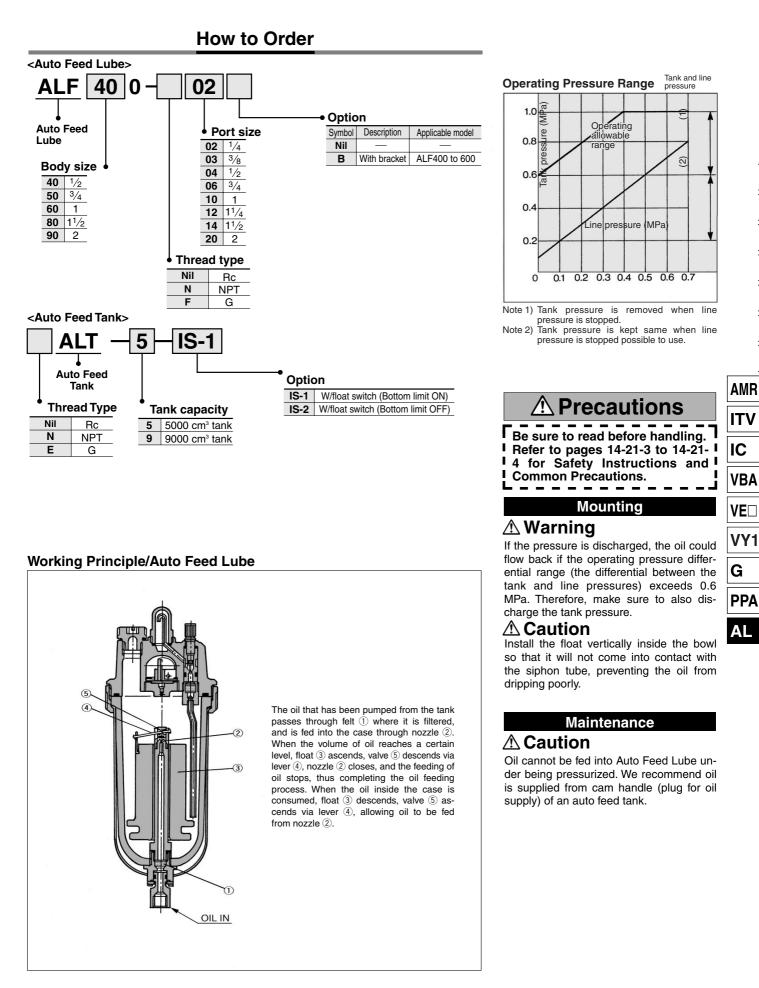
Accessory (Option) Part No.

M	Part no.						
Mode/ Description	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.



SMC

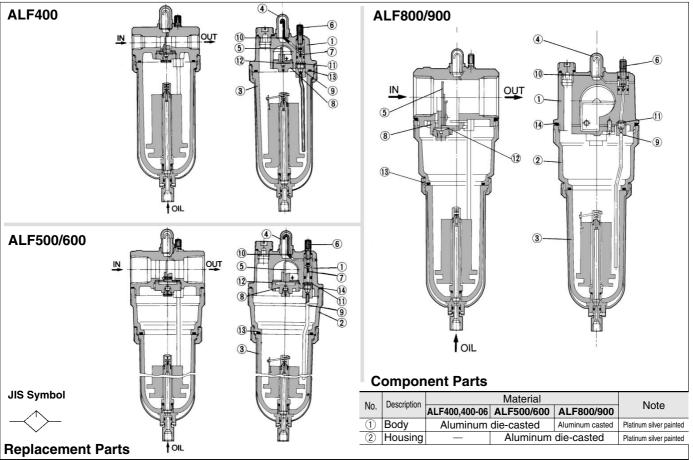


SMC

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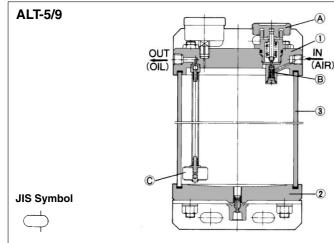
Series ALF400 to 900, ALT-5, -9

Construction: Auto Feed Lube



No. Description		Material	Part no.						
NO.	Description	Iviaterial	ALF400	ALF400-06	ALF500	ALF600	ALF800	ALF900	
3	Auto feed	_	ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	ALF-3	
(4)	Sight dome	Polycarbonate	12316	12316	12316	12316	12316	12316	
(5)	Damper assembly		123122-3A (1/2) 123122-2A (3/8) 123122-1A (1/4)	123122-3A	123210A	123310A	123417A (11/4) 123416A (11/2)	12356A	
6	Needle stud assembly	—	123128PA	123128PA	123128PA	123128PA	123128PA	123128PA	
\bigcirc	Needle guide assembly	_	123129A	123221A	123292A	123314A	_	—	
8	Retainer assembly		123182	123182	12325A	12335A	123032	—	
9	Siphon tube assembly		124230	124230	124231	124232	124232	124232	
10	Sight dome seal	Urethane resin	12318	12318	12318	12318	12318	12318	
11	Siphon nut seal	Urethane resin	123111	123111	123111	123111	123111	123111	
(12)	Damper retainer seal	NBR	123126	123126	123213	123313	123011		
(13)	Bowl O-ring	NBR	113136	113136	113136	113136	113136	113136	
14	Housing O-ring	NBR	_	_	JIS B 2401G80	JIS B 2401G90	JIS B 2401G90	JIS B 2401G90	

Construction: Auto Feed Tank



Working principle/Auto Feed Tank

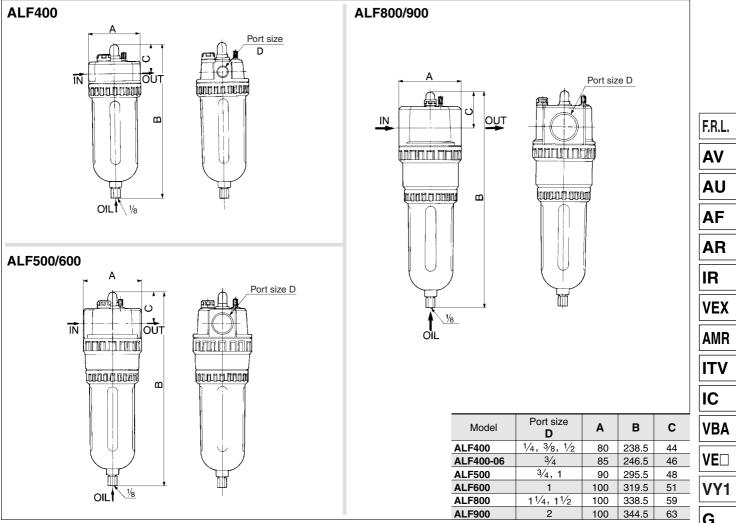
By turning cam handle (B 90° clockwise, valve (B opens, allowing the air that has entered from the IN side to be introduced into the tank. Due to the air pressure, the oil in the tank passes through felt (D and exits from the OUT side. Turning cam handle (A 90° counterclockwise stops the air from the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

Component Parts

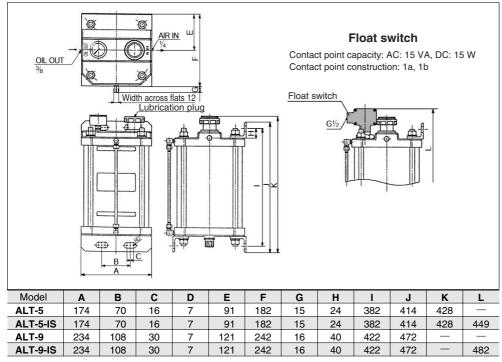
		-		
No.	Description	Material	Note	
1	Top cover	Aluminum casted	Platinum silver painted	
2	Bottom cover	Aluminum casted	Platinum silver painted	
3	Case	STKM	Platinum silver painted	



Dimensions: Auto Feed Lube



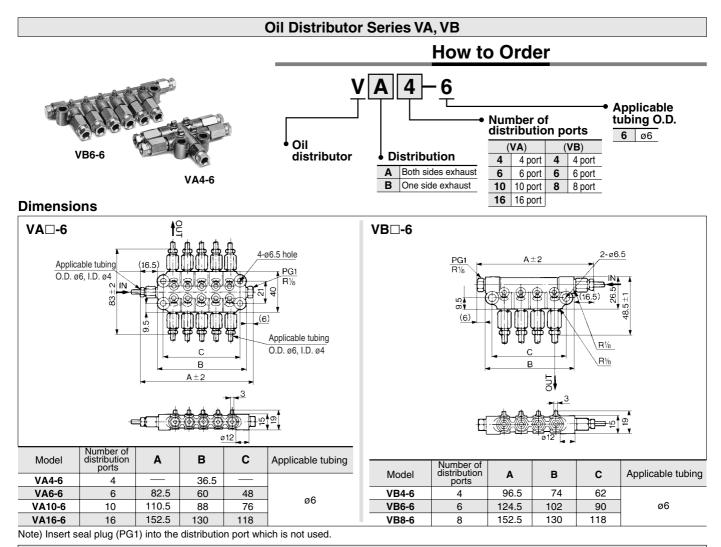
Dimensions: Auto Feed Tank



G PPA AL

4

Oil Distributor VA, VB/Nylon Tubing Related Products:



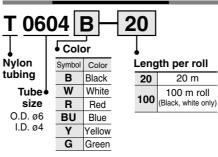
T0604

Nylon Tubing

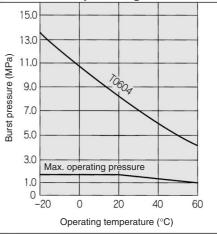
Specifications					
Model	T0604				
Max. operating pressure	1.5 MPa				
Burst pressure	Refer to the burst pressure characteristics curve.				
Min. bending radius (mm) ^{Note)}	24				
Operating temperature	–20°C to 60°C				
Material	Nylon 12				
Note) The value at temp. of 20°C and with O.D.					

variable rate 10% max.

How to Order



Burst Pressure Characteristics Curve and Operating Pressure



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

