

SOLENOID SINGLE STEP PUMP

The SUNTEC **OL** oil pump incorporates a blocking solenoid valve with in-line cut-off function.

COMPATIBILITY

- Fuel oil #2 and lighter, special "V" models for B6-B100 (blends from 6% up to 100% biodiesel, per ASTM D396) and "K" models for Kerosene. - One or two-pipe system.

PUMP OPERATING PRINCIPLE

The gear set draws oil from the tank through the built-in filter and transfers it to the nozzle line via the cut-off solenoid valve . A pressure regulating valve is used to by-pass all oil which is not required at the nozzle.

One-pipe installation

The oil which does not go through the nozzle line is returned directly to the gear inlet and the suction line flow is equal to the nozzle flow. In that case, the by-pass plug must be removed from the return port, and the return port sealed by steel plug and washer.

Two-pipe operation

The by-pass plug is fitted in the return port, which ensures that the oil by-passed by the regulating valve is returned to the tank and the suction line flow is equal to the gear set capacity.

Cut-off

The solenoid valve of the OL pump is of the "normally closed" type and is situated in the nozzle line. This design ensures extremely fast response and the switching can be selected according to the burner operating sequence and is independent of motor speed.

When the solenoid is :

- non-activated, the valve is closed and all oil pressurized by the gear set passes through the regulator to suction or the return line, depending upon pipe arrangement.

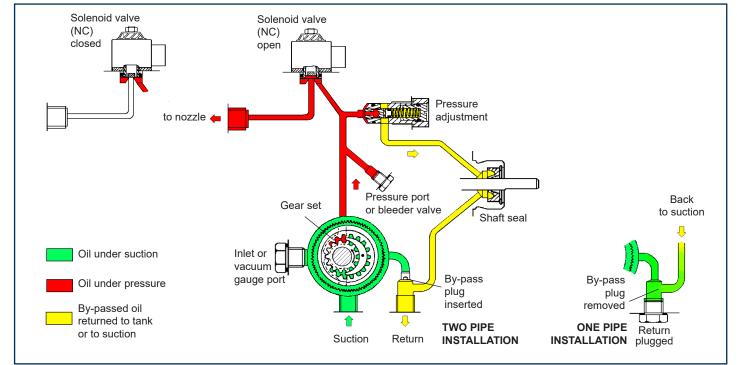
- activated, oil passes to the nozzle line at the pressure set by the pressure regulating valve.

Bleed

In one-pipe operation, the bleeder valve must be loosened (or a pressure port must be opened) until the air is evacuated from the system.

Bleeding in two-pipe operation is automatic : it is assured by a bleed flat on the piston.

(Not all model combinations are available Consult your Suntec representative)
OL: pressure regulation and blocking solenoid valve with in-line cut-off function
└ : B6-B100 applications
Gear set capacity (see pump capacity curves)
Shaft rotation and nozzle location (seen from shaft end) A: clockwise rotation/ right hand nozzle. B: clockwise rotation/ left hand nozzle. C: anti-clockwise rotation left hand nozzle. D: anti-clockwise rotation right hand nozzle.
K: kerosene applications
Pump series Pump series Pump series Pump series Pump series Pump series Pump series Pump series
Model number
OL V 35 C K 9 1 xx 1 P 06
Revision number Installation P : by-pass plug inserted in return port for two-pipe operation M : without by-pass plug, return plugged, for one-pipe operation
Solenoid valve voltage 02 : 24 V AC 06 : 110-120 V AC 230 240 V AC



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OL -	US -	Ed.	7	_	November	2024
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PUMP IDENTIFICATION

TECHNICAL DATA

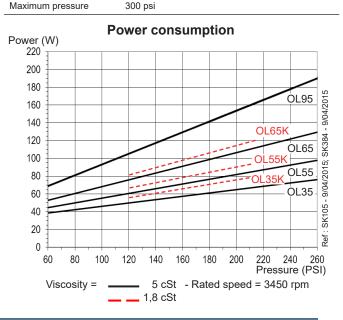
General

Mounting	Flange mounting Hub mounting available for OL 35/55/65				
Connection threads	Conical : Cylindrical (according to ISO 228/1) : 1/4 NPTF G 1/4				
Nozzle outlet	1/8 NPTF G 1/8				
Pressure gauge port	1/8 NPTF G 1/8				
Vacuum gauge	1/4 NPTF G 1/8				
Valve function	Pressure regulation				
Strainer	Open area : 0,93 in²				
	Opening size : 5.90 mil				
Shaft	5/16 " dia.				
By -pass plug	Inserted in return port for 2 pipe system; to be removed with a 3/16" Allen key for 1 pipe system.				
Weight	3.44 IBs				
Certification	B6-B100 : US only				

Hydraulic data

Gear size	Nozzle pressure range	Factory setting*		
35/55 65/95	60 - 260 or 120 - 210 psi @5 cSt 145 - 175 psi @5 cSt	200 or 175 psi 175 psi		
35K/55K/65K (Kerosene models)	120 - 210 psi @ 1,8 cSt	175 psi		
*other ranges available on r particular fuel unit.	equest, refer to the specified ran	ge of the		
Operating viscosity	2 -12 cSt for OL 35/55/65/95			
	1.25 - 12 cSt for OL 35K/55K/	65K		
Oil temperature	32 - 140°F in the pump			
Ambient temperature	32 - 140°F			
Inlet and return pressures 10 psi max. NFPA limits pressures to 3 psi max				
Suction height	Single pipe : 6" Hg max. vacu Two-pipe : 12" Hg max. vacuu separation from oil			
Rated speed	3600 rpm max.			
Torque (@ 45 rpm)	0.88 lb.in (OL 35/35K/55/55K) 1.06 lb.in (OL 65/65K)			

Frequency	50/60 Hz					
Consumption	9 W					
Maximum pressure	300 psi					



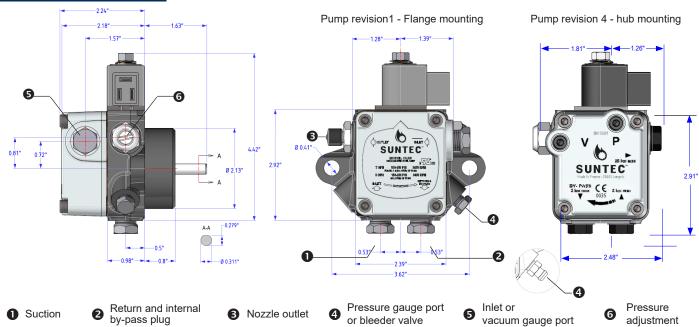
Capacity (GPH) 50 45 SK384 - 9/04/2015 **OL95** 40 35 30 **OL65** 25 9/04/2015; 20 OL55 OL65K 15 **OL35** SK105 -10 OL55K 5 OL35K Ref -0 60 80 100 120 140 160 180 200 220 240 260 Pressure (PSI) 5 cSt - Rated speed = 3450 rpm Viscosity = _ 1,8 cSt

Pump capacity

Data shown take into account a wear margin. Do not oversize the pump when selecting the gear capacity.

PUMP DIMENSIONS (in inches)

Example shows "A" rotation and nozzle outlet



We reserve the right to change specifications without prior notice.