

SOLENOID TWO STAGE WO STEP PUMP

SUNTEC A-8800B model contains two gear sets and a built-in solenoid which provides a twomode pressure operation. The first stage gear set sucks the fuel from the line, and the second stage gear set pressurizes the fuel. This unit is supplied for 1-pipe operation, without by-pass plug installed. Please verify before installation.

COMPATIBILITY

- Fuel oil #2 and lighter, B6-B100 (blends from 6% up to 100% biodiesel, per ASTM D396).

PUMP OPERATING PRINCIPLE

As the motor starts, the fuel from the second stage gearset is transferred to the pressure regulating valve.

The high pressure mode is obtained with the solenoid valve activated (ie. closed); activating this solenoid valve closes the by-pass channel to the return. Oil is then transferred to the nozzle line at the pressure given by the high pressure regulating valve.

The low pressure mode is obtained with the solenoid valve open (ie. non activated); the bypass channel is open, the oil is supplied to the nozzle line via the by-pass hole and the low pressure adjustment is made by the screw on the solenoid tube.

It is preferable to set the high pressure given by the pump valve (with solenoid activated) before the low pressure, with solenoid non activated. Care should be taken not to overtighten the low pressure adjusting screw of the solenoid tube, as this may eliminate the low pressure range.

One pipe installation

The by-pass plug must not be installed. The excess fuel is returned back to the inlet.

Two pipe installation

The steel plug of the return port must be removed and the by-pass plug must be inserted in the return port allowing excess fuel is bypassed back to the tank. The return plug must not be reinstalled.

Bleed

In one pipe operation, the easy flow bleeder valve must be loosened to bleed the system. Bleeding in two pipe operation is automatic, but it may be accelerated by loosening the easy flow bleeder.

Note

Owing to the presence of the nozzle by-pass hole, the pump has no cut-off function; cut-off must be provided by an external solenoid valve.

IDENTIFICATION					
Two stages					
Rated motor seed : 1 : 1725 rpm 2 : 3450 rpm					
Strainer : See technical data					
B 2 T A 8850 B 8 T T T T T T T T T T T T T T T T T T T					
Identification number					
B : B6-B100 applications					
Revision					



B-8800B

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TECHNICAL DATA

General

Mounting	Flange mounting	
Connection threads Inlet Nozzle outlet Pressure gauge port Bleeder valve port	1/4 NPTF 1/8 NPTF 1/8 NPSF 1/8 NPSF	
Valve function	Pressure regulation and cut-off	
Cut-off	Motor speed dependent	
Shaft	5/16 in	
By-pass plug	Not inserted in return port, for one pipe system. To be inserted in return port with a 5/32 Allen key for two-pipe system	

Strainer open area	T = min 10,5 in ²
Cartified	\frown

Certified

B6-B100: US only

Hydraulic data

Oil temperature	32 - 140°F
Ambiant temperature	32 - 140°F
Inlet and return pressures NFPA limits pressures to 3 psi max	10 psi max.
Suction height	Single pipe: 6" Hg max. vacuum, Two-pipe: 17" Hg max. vacuum, to prevent air separation from oil

Nozzle rating

Model number	Nozzle rating	Power consumption at 300 PSI
B2TA-8850B	10 GPH at 300 PSI	250W
B2TA-8851B	16 GPH at 300 PSI	285W
B2TA-8852B	23 GPH at 300 PSI	330W

Solenoid valve characteristics

50/60 Hz	Solenoid coil number system N 6 2 1 L		
9 W	N - NON DELAY X - NO CORDSET	L - L.H LEADS (From shaft end)	
300 psi	COIL VOLTAGE 2 - 12 VDC/24 VAC 6 - 115 VAC	LEADS LENGHTS X1 - NO CORDSET 21 - 13 INCH (PARTIAL JACKET)	
	50/60 Hz 9 W 300 psi	50/60 Hz Solenoid 9 W CORDSET TYPE 300 psi N - NON DELAY X - NO CORDSET COIL VOLTAGE 2 - 12 VDC/24 VAC 6 - 115 VAC 6 - 115 VAC 7 - 220 VAC	

PUMP DIMENSIONS (in inches)



We reserve the right to change specifications without prior notice.