

PUMP IDENTIFICATION

(Not all model combinations are available. Consult your Suntec representative)
 AS : pressure regulator and piston cut-off valve controlled by integral solenoid valve
 V : B10 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
 1000 : standard
 7000 : with side pressure ports
 4 : hub Ø 54 mm
 5, 6 : hub Ø 32 mm
 Model number

ASV 47 C K 1 5 xx 6 P 05 00

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 coil voltage
 06 : 110 - 120 V ; 50/60 Hz
 02 : 24 V ; 50/60 Hz
 05/07 : 220 - 240 V ; 50/60 Hz
 Connector cable length
 00 : no cable
 35 : 35 cm
 45 : 45 cm
 60 : 60 cm
 - : 10 : 1 m

This is a general specification leaflet; for specific applications not covered herein, contact Suntec.

OIL PUMP TYPE AS
 GEAR SIZES 47-57-67
 insight®



APPLICATIONS

The SUNTEC AS oil pump has a built in solenoid valve which controls the regulator cut-off valve giving fast cut-off and cut-on function independent of the rotational speed.
 - Light oil, B10 heating oil/biofuel blend (as defined in DIN V51603-6) and 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 valve that regulates the oil pressure to the nozzle line. All oil that does not go through the nozzle line will be dumped through the valve back to the return line in two pipe installation or, if it is a one-pipe installation, back to suction port in the gear set. In that case, the by-pass plug must be removed from the return port, and the return port sealed by steel plug and washer.

The solenoid valve of the AS pump is of the "normally opened" type.
 When the solenoid valve is non-activated, the by-pass channel between the pressure and return sides of the valve is open. No pressure will then be built up to open the valve; it does not matter which speed the gear set has.
 When the solenoid is activated, this by-pass channel is closed and because of the full speed of the gear set, the pressure necessary to open the valve will be built up very rapidly, which gives a very sharp cut-on function.

Cut-off:
 When the burner stops, the solenoid opens the by-pass at the same moment, which drains all the oil down to the return, and the nozzle closes immediately. This gives a very sharp cut-off function.
 The cut-on and cut-off can be actuated regardless of motor speed and have an extremely fast response.
 When the solenoid is not activated, the torque requirement is low up to full motor speed.

Bleed :
 Bleeding in two pipe operation is automatic, but it may be accelerated by opening a pressure port.
 In one pipe operation, a pressure port must be opened to bleed the system.

