



OIL PUMP TYPE AE GEAR SIZES 47-57-67-77-97

AE

AE - 11 - Ed 13 - July 2009

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

The SUNTEC AE oil pump is the basic model incorporating a pressure regulating valve. It does not have a cut-off feature, this allows purging of air through the nozzle line.

APPLICATIONS

- Kerosene, light oil.
- One or two-pipe system.
- System with in-line solenoid valve to assure cut-off function.

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 which does not go through the nozzle line will be by-passed through the valve back to the return line, in a two pipe installation or, if it is a one-pipe installation, back to the 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.

Bleed :

Bleeding in two pipe operation is automatic.

In one pipe operation, during the starting period, air is purged through the nozzle line : the by-pass hole of the nozzle plug allows air to pass to the nozzle line without opening of the regulator valve.

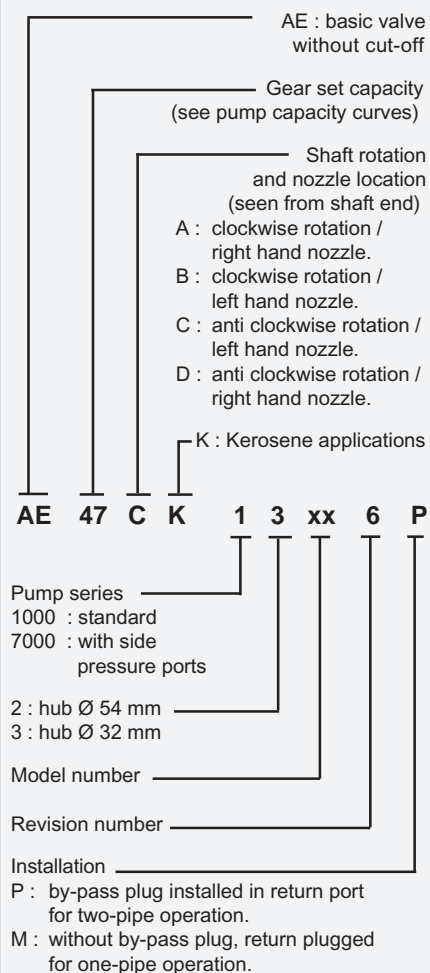
For the first start up, bleeding can be accelerated by loosening the plug in a pressure gauge port.

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 (as mentioned in the paragraph APPLICATIONS).

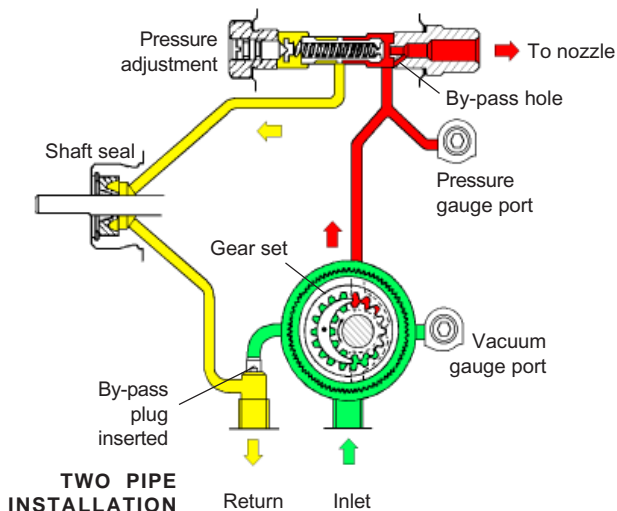
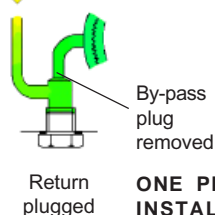
PUMP IDENTIFICATION

(Not all model combinations are available
Consult your Suntec representative)



- Oil under suction
- Oil under pressure
- By-passed oil returned to tank, or to suction

Back to suction



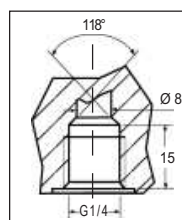
General

Hydraulic data

PUMP DIMENSIONS

Examples show "C" rotation and nozzle outlet.

Pumps revision 1, 3, 5



Inlet ❶ and Return ❷
with direct sealing
for revision 5 and 6 models
(sealing with washers can also be used)

- 1** Suction
- 2** Return and internal by-pass plug
- 3** Nozzle outlet
- 4** Pressure gauge port
- 5** Vacuum gauge port
- 6** Pressure adjustment
- 7** Pressure port (only for "7000" series)

Capacity (L/h)



Do not oversize the pump when selecting the gear capacity.

Power consumption

