

## OIL PUMP TYPE TA GEAR SIZES 2-3-4-5



#### TA - 11 - Ed 5 - Feb. 99

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

The SUNTECTA oil pump is specially designed for industrial heating applications using light or heavy oils. It is fitted with a preheater location to render cold starting easier.

## APPLICATIONS

- Light and heavy oil.

- One or two-pipe system.

### PUMP OPERATING PRINCIPLE

The gear set draws oil from the tank 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 dumped through the valve back to the return line in two pipe installation or, if it is a one-pipe installation, back to the gear-set.

#### Bleed :

The plug of the pressure gauge port must be loosened until the air is evacuated from the system.

#### Note :

All TA models are delivered for two-pipe system (by-pass plug fitted in vacuum gauge port).

For one-pipe system, the by-pass plug must be removed and the return port sealed by steel plug and washer.

## PREHEATING FACILITY

Care should be taken to avoid starting pump with high viscosity cold oil leading to pump and coupling damage. For this reason, the TA pump body includes a drilling to accept an electric preheater. This drilling has been located to give maximum heat transfer from the heater to the oil in the pump without there being direct contact between the heater cartridge and the oil.

Heaters should be connected for a period of time prior to starting the pump. When the right temperature is reached, they can be switched off or left permanently switched on to maintain fluid oil in the pump during the periodic burner shut-downs. The oil supply, pipes and filters must be separately heated.





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#### **TECHNICAL DATA**

#### General

Mounting	Flange mounting
Connection threads	Cylindrical according to ISO 228/1

Shaft	Ø 12 mm			
By-pass plug	Inserted in vacuum gauge port			
	for 2 pipe system;			
	to be removed with a 3/16" Allen key			
	for 1 pipe system			
Weight	5,4 kg (TA2) - 5,7 kg (TA3)			
	6 kg (TA4) - 6,4 kg (TA5)			

#### Hydraulic data

Nozzle pressure ranges	30 : 7 - 30 bars		
	40 : 7 - 40	bars	
Delivery pressure			
setting	30 bars		
Operating viscosity	4 - 450 cSt		
Oil temperature	0 - 140°C max. in the pump		
Inlet pressure	light oil :	0,45 bars max. vacuum to prevent	
		air separation from oil	
	heavy oil :	5 bars max.	
Return pressure	light oil:	5 bars max.	
	heavy oil :	5 bars max.	
Rated speed	3600 rpm max.		
Starting torque	0,3 N.m		

#### **Choice of heater**

Cartridge	Ø 12 mm
Fitting	according to DIN 40430, NFC 68190 (N°9 elec.)
Rating	80-100 W









We reserve the right to change specifications without prior notice.