

# BULLETIN N° 93

## SUNTEC pumps and MGO (marine gasoil)

### MGO properties

Marine Gasoil (MGO) has different properties compared to heavy oil usually used in marine applications :

- ⇒ much lower viscosity (1,5 to 6 cSt @ 40°C) meaning that the internal leakages between the moving parts of the pump are increased giving a reduction in available nozzle flow capacity.
- ⇒ lower lubricity of the pump inner parts.

Due to these properties, MGO use requires precautions in the selection and use of burner pumps.

### Suntec pump range and MGO applications

Caution : the operating temperature has to be such as **the viscosity in the pump should not be lower than 1,25 cSt.**

#### ■ Medium capacity pumps

For MGO applications we recommend the use of **E4** and **E6** pumps with maximum pressure : **15 bars**. Do not use E 7 models.

For specific requirements, please contact SUNTEC.

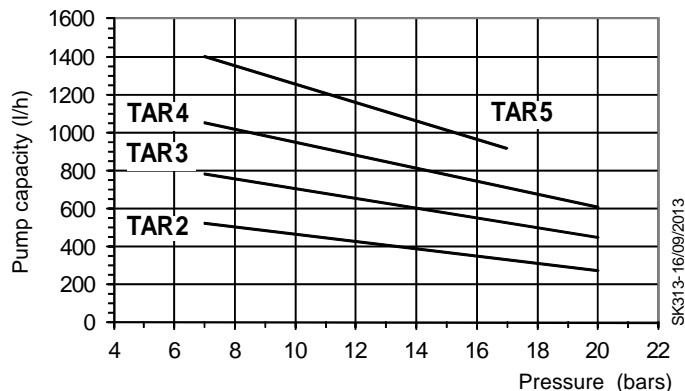
#### ■ High capacity pumps

**TA and T** pumps are suitable for MGO applications for viscosities higher than 3 cSt, in standard version.

If the viscosity is comprised between 2 and 3 cSt, the maximum recommended pressure will be :

- **20 bars** for TA2/3/4 and T2/3/4 pumps,
- **17 bars** for TA5 and T5 pumps.

For viscosities lower than 2 cSt, SUNTEC recommends the use of **TAR** pumps, improved to suit these applications (consult SUNTEC).



TAR Pump capacity  
for operating viscosity : 1,75 cst  
in the pump and  
rated speed : 2850 rpm