

# Series AG



# **CHARACTERISTICS**

Applications:

- Light oil.
  - One pipe or two pipe systems.
  - Self-priming.

VACUUM

RETURN

• Hub ø 32 mm or hub ø 54 mm with flange.

PRESSURE PORT

SUCTION

NOZZLE OUTLET

• Capacity from 50 l/h to 280 l/h.

# **FUNCTION**

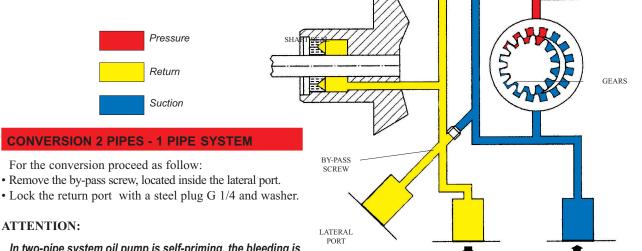
The suction vacuum generated by the gears sucks up the fuel through the suction connection; it crosses the filter and the fuel is sent under pressure to the pressure adjustment screw.

The hydraulic valve opens when oil pressure gets over spring strength settled by pressure adjustment screw and the oil reaches nozzle line.

PRESSURE ADJUSMENT SCREW

In two pipe systems the exceeding oil flows into the tank through the return line; in one pipe system, after the removing the by-pass screw, it goes back to the gears.

When burner stops, the oil pressure immediately comes down and the spring strength moves the piston which stop the fluid flow to the line and at the same time allows the forwarding of the light oil to the return line.



# In two-pipe system oil pump is self-priming, the bleeding is obtained through the return line.

In one-pipe system the return line is closed by plug, the bleeding must be obtained through the nozzle or opening the pressure gauge port, to accelerate the way out of the air.

# **TECHNICAL DATA**

#### HYDRAULIC DATA

Factory settings Pressure range Viscosity range Oil temperature Inlet pressure Recycle pressure Suction vacuum Speed Starting torque Capacity Power consuption 12 bar 4 - 25 bar 2,8 - 75 cSt 70°C max 2 bar max 2 bar max 0,45 bar max 2800 - 3480 rpm 0,30 Nm see graphs see graphs

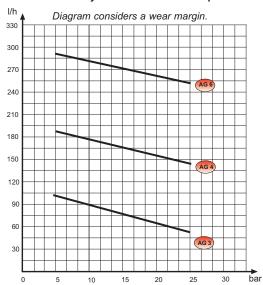
## **GENERAL DATA**

Mounting	Hub Ø 32 mm or Flange Ø 54 mm according to EN 225	
Connections	Nozzle outlet	G 1/8
	Pressure gauge port	G 1/8
	Vacuum gauge port	G 1/8
	Suction	G 1/4
	Return	G 1/4
Strainer	Open aria Mesh	142 cm <sup>2</sup> 100 μm
Weight		2,0 kg

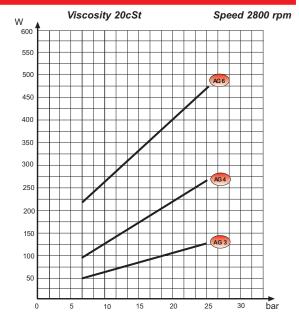
#### **PRESSURE - CAPACITY DIAGRAM**

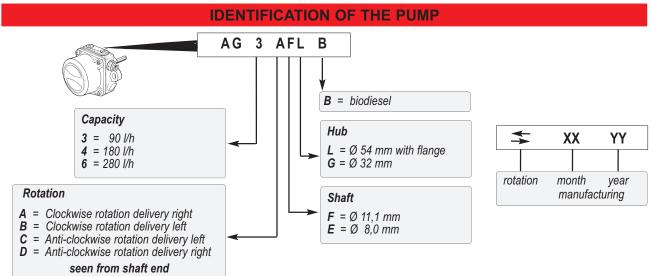
Viscosity 20cSt

Speed 2800 rpm

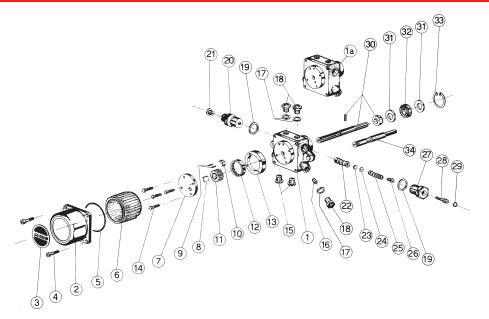


#### **POWER CONSUPTION - PRESSURE DIAGRAM**





# **COMPONENTS OF THE PUMP**



#### **INSTALLATION OF THE PUMP**

- The pump can be installed in all indicated positions.
- Make sure that the characteristics of the pump are compatible with those of the motor or of the boiler.
- Control the rotation of pump-motor.







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In the hub muonting version the coupling pump-motor must be realized using 3 head screws without; otherwise you can have significant reductions of pump life.

#### **REGULATION OF THE PUMP PRESSURE**

- Apply the manometer on the pressure gauge port.
- Rotate with the slotted screwdriver changing the pressure which has to be:

Pressure max: 25 bar Pressure min: 4 bar

## **CLEANING OF THE FILTER**

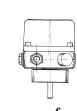
- Remove the cover as indicated in the figure.
- Extract the filter and clean it with the clean oil fuel.

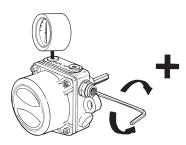
ATTENTION: This operations have to be made periodically by the technical personnel.



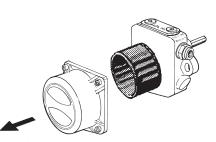
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The repairs which require the substitution of pieces, must be realized by the manufacturer.

