HEAVY OIL BURNER PUMP

Series N-NR





CHARACTERISTICS

Applications:

- Heavy oil.
- One pipe and two pipe systems.
- Self-priming.
- Manometer and vacuumeter connection.
- Drilling for heating catridge.
- Capacity from 80 l/h to 420 l/h.

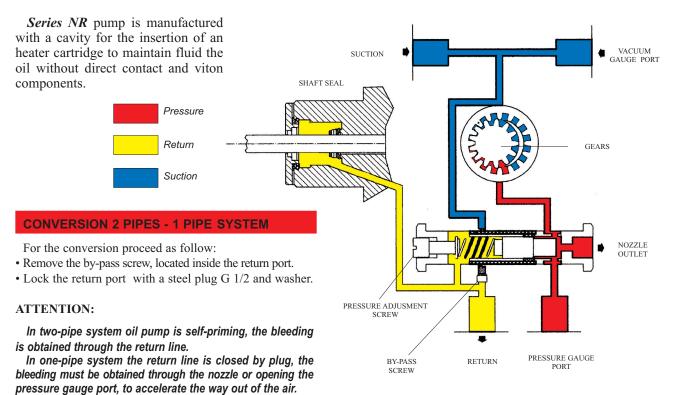
FUNCTION

The suction vacuum generated by the gears sucks up the fuel through the suction line; it crosses the filter and it is sent, under pressure, to the hydraulic valve which has cut-off function.

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

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 the burner stops, the oil pressure immediately comes down and the spring of the pressure adjustment screw, moves the piston which stops the fluid flow to the line and, at the same time, allows to the fluid to go through the return line.



TECHNICAL DATA

PRESSURE - CAPACITY DIAGRAM

Viscosity 20cSt

HYDRAULIC DATA

Factory settings
Pressure range
Viscosity range (series N)
Viscosity range (series NR)
Oil temperature (series N)
Oil temperature (series NR)
Inlet pressure
Return pressure
Suction height
Speed
Starting torque
Capacity
Power consuption

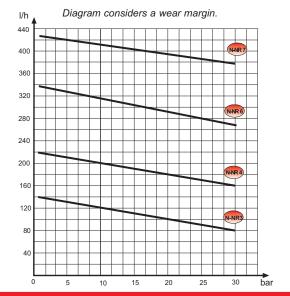
20 bar 7 - 28 bar 2,8 - 200 cSt 2,8 - 450 cSt 70°C max 120°C max 4 bar max 4 bar max 0,45 bar max 2800 - 3480 rpm 0,35 Nm see graphs see graphs

GENERAL DATA

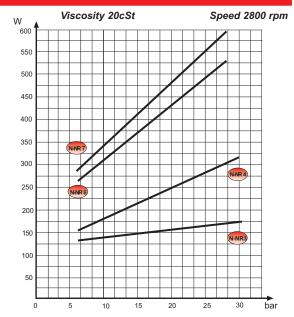
Mounting	Flange Ø 54 mm according to EN 225	
Connections	Nozzle outlet Pressure gauge port Vacuum gauge port Suction Return	G 1/4 G 1/8 G 1/2 G 1/2 G 1/2 G 1/2
Strainer	Open aria Mesh	142 cm ² 400 μm
Weight		4,0 kg

Heating cartridge ø 10 mm according to EN 50262

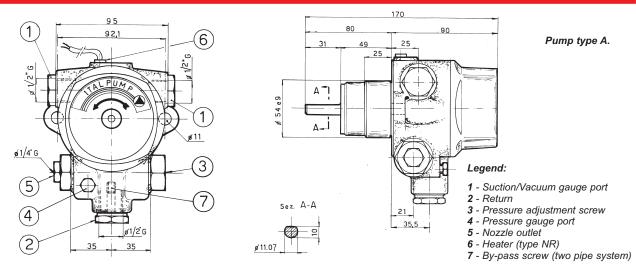
Heating rating 50W 230V 50Hz



POWER CONSUPTION - PRESSURE DIAGRAM

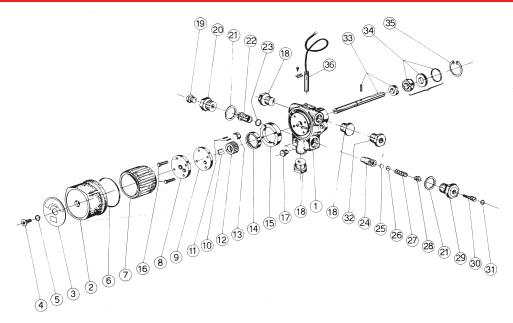


DIMENSIONS OF THE PUMP



Speed 2800 rpm

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.





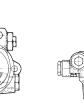
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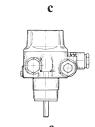
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REGULATION OF THE PUMP PRESSURE

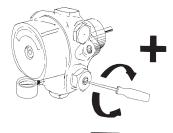
- Apply the manometer on the pressure gauge port.
- Rotate with the slotted screwdriver changing the pressure which has to be:

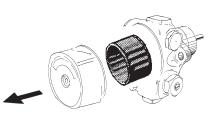
Pressure max: 28 bar Pressure min: 7 bar

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.

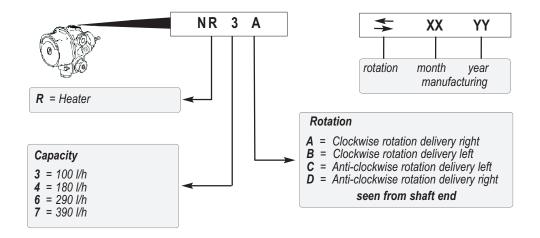






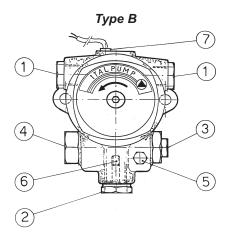
The repairs which require the substitution of pieces, must be realized by the manufacturer.

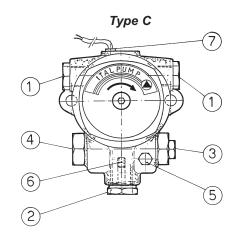
IDENTIFICATION OF THE PUMP

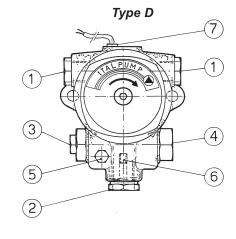


VERSIONS OF THE PUMP

Туре А (1)3 4 (5) 6 (2)







Legend:

- 1 Suction/Vacuum gauge port
- 2 Return 3 Nozzle outlet
- 4 Pressure adjustment screw
- 5 Pressure gauge port
 6 By-pass screw (two pipe system)
- 7 Heater (type NR)