

STANDARD EQUIPMENT

Code	Pump	Bypass screw	Coupling	Instruction
3007803	1	1	1	1
3020476	1	1	1	1
3020475	1	1	1	1
3020501	1	1	1	1
3020502	1	1	1	1
3020499	1	-	1	1
20024372	1	1	1	1

TECHNICAL CHARACTERISTICS

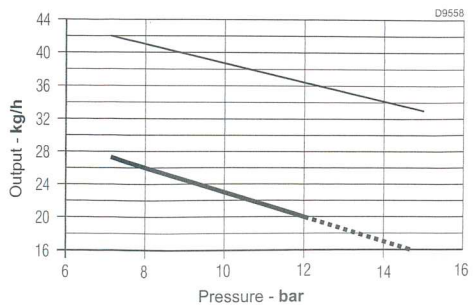
Pump	Light oil	Kerosene
Viscosity range	1.8 - 12mm ² /s (cSt)	1.6 - 6mm ² /s (cSt)
Rotation speed	2800 - 3600 min ⁻¹	
Pressure range	7 - 15 bar	7 - 12 bar
Factory calibration	See Tab. A	
Coil voltage	53V (+ 0.5 -2) 50/60 Hz	
Temperature range	-10 to +70°C	

Code	Pump calibration bar
3007803	12
3020476	8
3020475	8
3020501	8
3020502	8
3020499	7
20024372	8

Tab. A

Output

Fig. 1 shows the output of the pump at the nozzle. The pumps are factory-adjusted to the standard pressure, in accordance with Tab. A.



Viscosity: — 5 cSt Speed: 2850 gpm
 — 1.8 cSt

Fig. 1

Pump venting



When the system is started up with empty piping, the pump must not operate in dry conditions for more than 5 minutes.

- Only necessary with one-pipe systems (Fig. 2). In the system of Fig. 2, just loosen the connection of the vacuumeter 4) (Fig. 5) and wait for the fuel to come out.

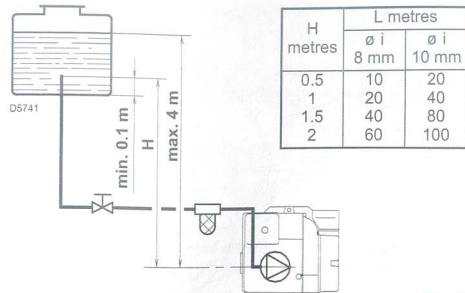


Fig. 2

- In the systems of Fig. 3 and Fig. 4, the air is expelled automatically following burner start-up.

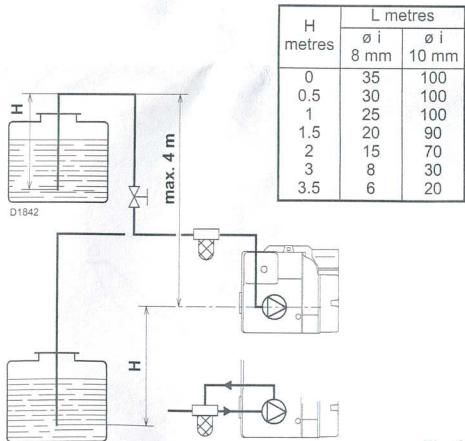


Fig. 3

INSTALLATION



Power must be cut off before carrying out any installation, maintenance or removal operation.



The oil supply (Suction 1) (Fig. 5) blanking plug is made from plastic material. Once removed this should be discarded and not reused under any circumstances.

In single pipe installations the plug supplied in the return line 2) of the pump is made from steel.

IT IS VERY IMPORTANT that ONLY the steel plug is used for this purpose.

To replace it:

- replace the connection 3) supplied as standard equipment;
- block the pump by uniformly tightening the 3 screws 1) (Fig. 6) - recommended tightening torque 3 ± 0.3 Nm.



Before beginning to use the new RIELLO pump: check the disassembled pump for any dirt.

Proceed as follows:

- loosen and remove the 4 fixing screws 2) (Fig. 6) of the cover 4) and check the condition of the fuel filter. If there is dirt on the inner surface of the pump body, cover or filter, then the fuel tank and relative piping are probably contaminated. Corrective action (cleaning) is therefore necessary
- you are advised to use an additional, good quality filter (with a filtering capacity of max. 15 micron), to be installed on the power supply line.

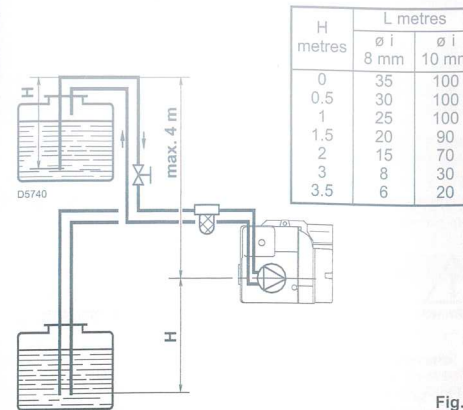


Fig. 4

Key (Fig. 2, Fig. 3 and Fig. 4)

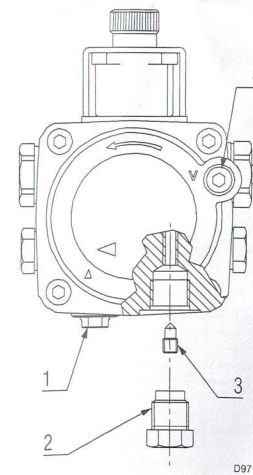
- H - Difference of level
- ø i - Internal pipe diameter
- L - Max. length of the suction line

OPERATION

The pump (Fig. 5) is suitable for one-pipe operation.

For two-pipe operation, you must:

- loosen the plug 2), tighten the bypass screw 3) (supplied).
- Set the pump pressure as described in the burner manual.



Key (Fig. 5)

- 1 Plug
- 2 Plug
- 3 Bypass screw
- 4 Vacuometer connection

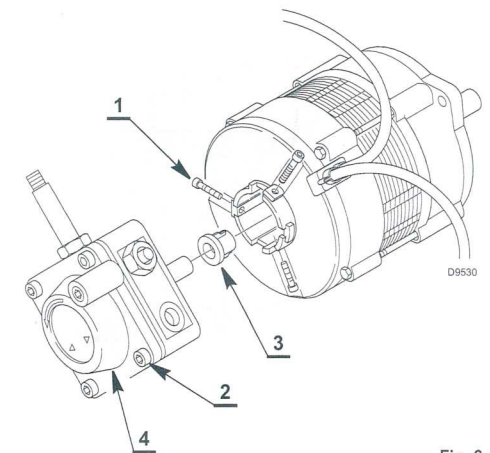


Fig. 5

Fig. 6

NOTE:

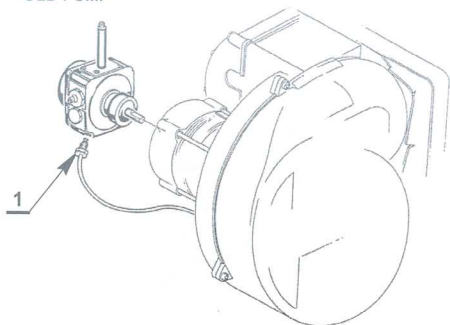
Contaminated or damaged oil pumps are not covered under the terms and conditions of RIELLO warranty!

Tightening the pipe coupling



- Tighten the coupling 1) (Fig. 7) with a tightening torque of 15 Nm ± 1Nm.
- Check for any fuel leaks during the first 5 minutes of operation of the burner. If there are any leaks, the pipe must be replaced.

OLD PUMP



NEW PUMP

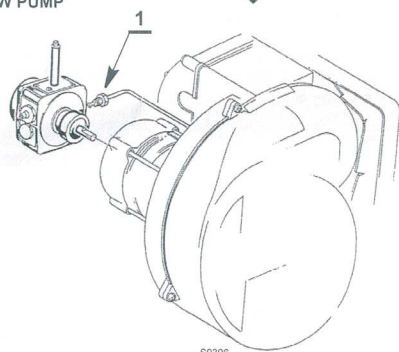


Fig. 7

MAINTENANCE



Power must be cut off before carrying out any installation, maintenance or removal operation.

Replacing the filter

- Use a hexagonal wrench to loosen by 4mm the screws 1) (Fig. 8) fixing the cover 2).
- Take out the filter 3). Throw away the used filter and assemble a new one.



When replacing the filter, check the old one for impurities and/or residue sucked in by the system. If the old filter is full of such impurities, you are advised to clean the system before assembling the new filter.

- Reassemble the cover 2), paying attention to the positioning of the gasket 4).
- Tighten the screws 1) with a tightening torque of 3.5 Nm.

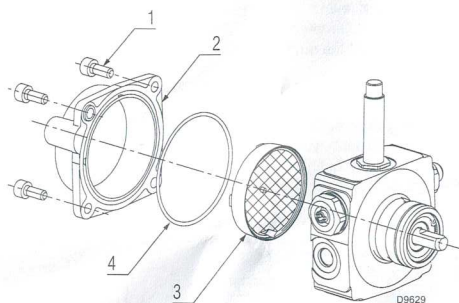


Fig. 8

MATERIAL SUMINISTRADO EN DOTACIÓN

Código	Bomba	Tornillo by-pass	Acoplamiento	Instrucción
3007803	1	1	1	1
3020476	1	1	1	1
3020475	1	1	1	1
3020501	1	1	1	1
3020502	1	1	1	1
3020499	1	-	1	1
20024372	1	1	1	1

CARACTERÍSTICAS TÉCNICAS

Bomba	Gasóleo	Queroseno
Campo de viscosidad	1,8+12 mm ² /s (cSt)	1,6+6 mm ² /s (cSt)
Velocidad de rotación	2800 - 3600 min ⁻¹	
Campo de presión	7 + 15 bar	7 + 12 bar
Regulación de fábrica	Ver Tab. A	
Tensión de la bobina	53V (+0,5 -2) 50/60 Hz	
Campo de temperatura	-10 a +70°C	

Código	Regulación bomba bar
3007803	12
3020476	8
3020475	8
3020501	8
3020502	8
3020499	7
20024372	8

Tab. A

Caudal

La Fig. 1 indica el caudal de la bomba en la boquilla. Las bombas se regulan en fábrica a la presión estándar según la Tab. A.

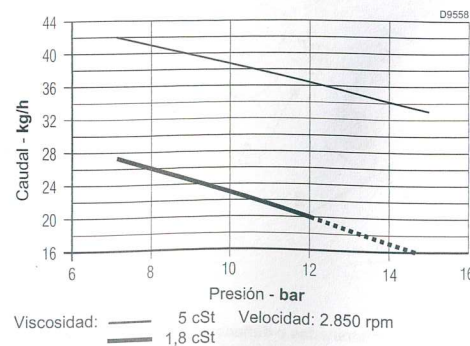


Fig. 1

Purga de aire de la bomba



Al poner en marcha la instalación con las tuberías vacías, la bomba no debe girar en seco durante más de 5 minutos.

- Es necesaria sólo con instalaciones de un tubo (Fig. 2). En la instalación de la Fig. 2, es suficiente aflojar la conexión del vacuómetro 4) (Fig. 5) y esperar la salida del combustible.

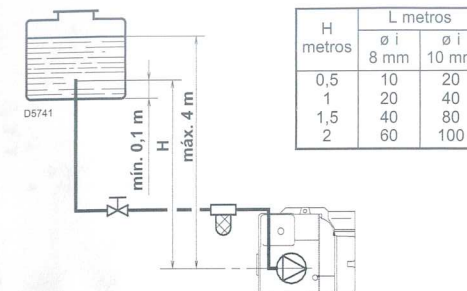


Fig. 2

- En las instalaciones de las Fig. 3 y Fig. 4, el aire es expulsado automáticamente después del arranque del quemador.

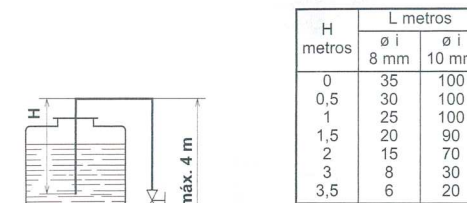


Fig. 3