Diesel Pump 60 I/min

230 V 1~AC



© Operating Instructions for Diesel Pump 60 I/min

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1. General Information

1.1 Usage Stipulations

The diesel pump is to be used only for the delivery of diesel fuel.

Never use it to deliver explosive fluids like petrol, or other fluids with similar flashpoints!

The diesel pump must be connected to a 230 V electrical supply.

To ensure that usage stipulations are met, read through the operating instructions completely before using the pump and observe all stipulations.

Any departure from the usage stipulations (other fluid media, use of force) or user modifications (changes, use of non-original parts) can be dangerous and are considered as non-stipulated usage.

The user is liable for any damage resulting from non-stipulated use.

For any repairs to electrical components, the appropriate safety and test requirements are to be observed.

Only original replacement parts are to be used for any repairs, otherwise the warranty will be invalidated.

1.2 Construction and Functional Description

The diesel pump can be fitted with a variety of FMT accessories.

To prevent environmental damage the diesel pump is fitted with a siphon protection system. This means that if the discharge hose is damaged while the pump is stopped, siphon action will not empty the tank.

1.3 Application Range

The diesel pump is suitable for the delivery of diesel and heating oil only when they are not heated above their flash points.

The temperature of the delivery fluids must be between -10 °C and +40 °C. The temperature limits must not be exceeded.

Because the motor and switch are not explosion-protected, the pump must **not**

- be operated in an explosion risk area.
- be used to deliver fuels of danger classification A I, A II and B.

1.4 Operational Area Requirements

Heating oil and diesel are water polluting substances. Therefore the country specific rules and regulations regarding the delivery and storage of such fluids must be obeyed.

According to § 19g WHG (Germany) the filling installation must be so constructed and built, maintained and operated, such that water pollution and/or any other environmental damage is prevented.

The operator of such an installation is, according to § 19i WHG (Germany) responsible for continuous monitoring to ensure compliance with the above stated requirements at the installation.



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1.5 Technical Data

Description	Diesel Pump 60 l/min	
Fluid temperature	°C	-10 to +40
Connection thread	G	1" i
Current	Α	2,4
Power	W	380
Capacitor		450 V - 12 μF 5 %
Pressure relief setting	bar	1,8
Max. suction height	m	5
Nominal delivery rate		
under free discharge	l/min	60
Voltage	V	230
Frequency	Hz	50
Revolution count	min ⁻¹	2800
Safety type		IP 54
Power cable	m	1,8
Weight	kg	6,3

Tab. 1-1: Technical Data

2. General Safety Advice

2.1 Information on safety at work

The diesel pump has been designed and manufactured according to the health and safety requirements of the relevant EC guidelines.

Nevertheless, there can still be risks if the product is not set up or operated as stipulated.

Therefore, before using the diesel pump, read these operation instructions and pass them on to other users.

When operating the diesel pump, the local safety and accident prevention rules and regulations always apply, as well as the safety advice in the operating instructions.

2.2 Signs and symbols used in the safety instructions

The safety advice provided in these operating instructions is categorised according to different danger levels. The different danger levels are identified within the instructions by the following symbols and identifying words:

Pictogram	Keyword	Consequences of failure to comply with the safety instructions
9,4	Danger	Death or very serious injury
A	Caution	Possible slight or not serious injury or material damage

In addition, another symbol is used to indicate general tips about using the product.

Pictogram	Keyword	Meaning
0	Tip	Background information or tips about how to use the product



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2.3 Risks when Working with the Diesel Pump



Danger!

Never work on a pump that is running!

- Mount or remove attachments and accessories only when the pump is switched off.
- For your own safety, disconnect the pump from the power supply.



Danger!

Do not pump contaminated fluids!

- Take special care to ensure that there is no contaminant in the fluid to be pumped.
- Install a strainer on the suction pipe.



Danger!

Damaged attachments and accessories can lead to personal injury and material damage!

- Suction and pressure pipes must not be kinked, twisted or stretched.
- Attachments and accessories must be checked for wear, splits or other damage at all times.
- Damaged attachments and accessories must be replaced immediately.
- With reference to the period of use, please note the details in ZH 1/A45.4.2 or DIN 20066 Part 5.3.2.



Caution!

Spilled fuel can result in environmental damage!

Local and country rules and regulations relating to domestic water supplies and fuel storage must be obeyed.

Assembly 3.

4 bolts, diameter less than 7 mm (not included) are required to attach the pump.

When installing the pump, ensure that it is mounted on a stable surface. Select a secure location (protected from water spray, damage and theft).

First, remove the plastic plugs from the suction and discharge junctions.

Connect hoses to the suction and delivery connectors. Attach a strainer to the end of the suction hose.

Attach the nozzle valve to the delivery hose.

Connect the pump to a 230 V supply through the power connector.

The pump is now ready for operation.



Ensure cleanliness during installation, and that all accessories/attachments are correctly connected to the pump housing.

Use suitable sealing and jointing material (e.g. Teflon tape).



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3.1 Installing the Siphon Protection

Remove the bolt screwed into the side of the pump housing, together with the seal (see Fig. 3-1).

Screw into the same thread the threaded nozzle with the new seal (see Fig. 3-2).

Connect the hose to the threaded nozzle and feed it into the tank.



Tip

Ensure when installing the siphon protection system that the end of the hose is not immersed in the fluid. If it is, the siphon protection system will not work!

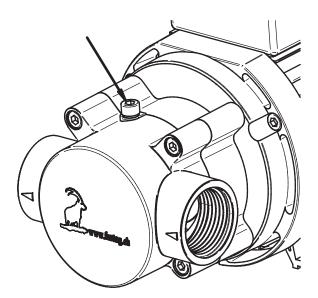


Fig. 3-1: Siphon Protection boring with blanking screw (as delivered)

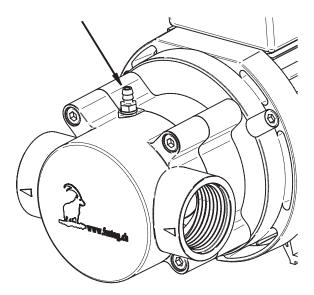


Fig. 3-2: Threaded nozzle for Siphon Protection screwed in place



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4. Operation

Check the diesel pump and installed accessories for completeness and damage. Replace any damaged components immediately. Never use a pump if damaged.

Check the suction filter for damage each time the tank is filled/emptied and replace it if damaged. Never operate the pump without the suction filter, because the pump will not be protected against contamination by foreign bodies.

Suspend the suction hose in the tank to be emptied.



Tip

To ensure that the tank can be completely emptied, the suction hose must reach to the bottom of the tank.

Position the nozzle valve in the container to be filled.

Operate the rocker switch to switch on the pump



Caution!

Never operate the pump without delivery fluid. There is a danger of your diesel pump being damaged if operated dry.

Adjust the nozzle valve lever pressure according to the delivery rate required, or lock it in position for constant flow (only applicable to automatic control valve, not included in standard delivery).



Caution!

The diesel pump does not automatically switch off, therefore do not leave the pump running unattended.

To finish a pumping session, release the nozzle valve control lever.

Operate the rocker switch to switch off the pump

Position the nozzle valve so that no diesel fuel can pollute the environment.



Caution!

Danger of product damage

The power source must be the correct voltage for the pump type.

5. Maintenance

The diesel pump is very easy to maintain and service.

Due to the operator responsibilities according to § 19i WHG (German rules), the following components must be regularly checked and replaced as necessary, to minimise the possibility of environmental or equipment damage, or personal injury:

- Pump housing
- Delivery hose
- Nozzle valve



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6. Service

6.1 Replacing worn blades

Undo the screws (83 743).

Separate the pump body from the motor.

Replace the used vanes (89 524) with new original FMT spare parts. Follow the mounting direction.

Refit the pump housing and secure it in position with the screws.

The replacement of the vanes is only required in exceptional circumstances.

7. Repairs/Service

The diesel pump was developed and produced according to the highest quality standards.

Should a problem develop, despite all quality controls, please contact our customer service:

FMT Swiss AG

Tel +49 9462 17-216 Fax +49 9462 1063 service@fmtag.ch

8. EC Declaration of Conformity

We hereby declare that the product described here, its concept and construction, including this particular model, complies with the EC requirements. Any change to the product, not approved by us, will invalidate the declaration.

Product Description	Diesel Pump 60 I/min 230 V 1~AC
Product Type	Electric Pump
Year of Manufacture	see nameplate
Applicable EC-Directives	EC-Low Voltage Directives (73/23/EEC)
	EC-Directives Electro-magnetic Compatibility
	(89/336/EEC) - 93/31/EEC
Applicable National Standards	DIN VDE 0843 T1 (German)

15.10.2012 FMT Swiss AG

Dipl.-Ing. Rudolf Schlenker



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9. Exploded view

No.	Quantity	Description	Article number
1	4	Screw M5x50	83 743
2	1	Pressure spring - conical	89 384
3	1	Washer with holes	83 575
4	1	Nut	03 496
5	1	Pump head	82 484
6	1	Gasket ring	82 515
7	1	Pump body	82 483
8	1	Ball race	82 471
9	1	O-ring 62x1,5	82 673
10	4	Central sleeve	83 733
11	1	Motor	82 584
12	1	Rotor	89 255
13	6	Segment	89 254
14	1	Screw M4x25	83 400
15	1	Valve disc with holes	83 574

Tab. 9-1: Individual components and article numbers



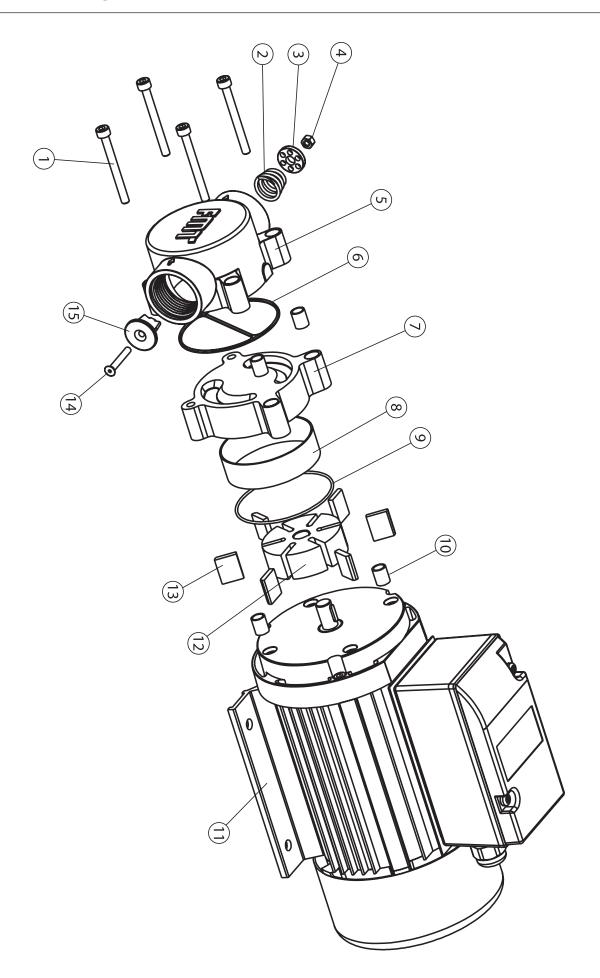


Fig. 9-1: Exploded View of the Diesel Pump



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