



Kto Supply Sas

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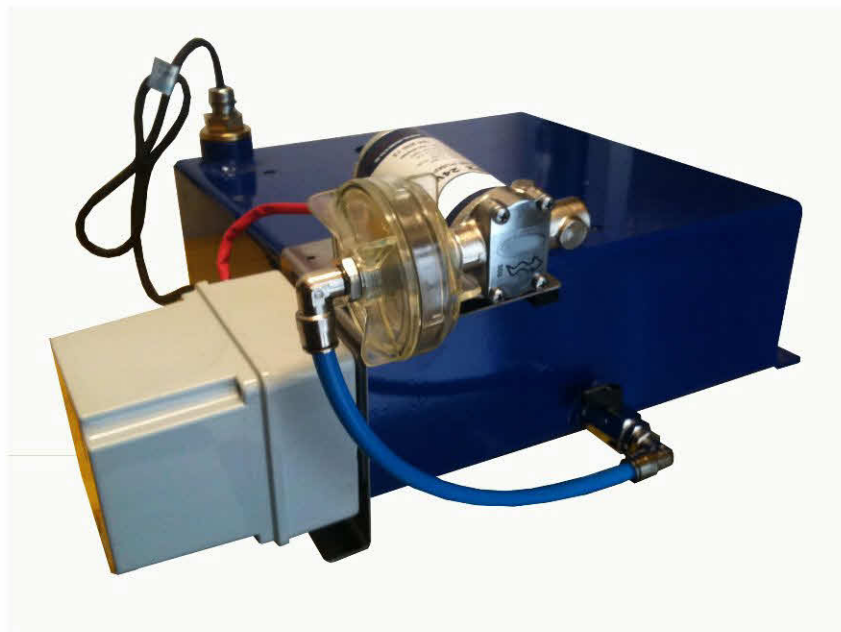
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Pag-Sh 1 di-of 12	Rev. 2										
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MIB 303

Sludge Removal Kit

with

MIBMatic control system





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Study instruction manuals and observe the warnings before installation, operation, service and maintenance.

Not following the instructions can result in serious accidents with fatal injuries.

In order to make the information clear only foreseeable conditions have been considered. No warnings are given, therefore, for situations arising from unintended usage of the machine and its tools.



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1. Function description

1.1 Application

The Sludge Removal Kit (SRK) is used to remove sludge from tank below MIB303 system. SRK is electric operated by 24 V DC.

SRK it has installed in combination with MIBMatic control panel.

1.2 Design

Operation of SRK is automatic, system is controlled automatically by MIBMatic.

Manual operation from PLC of MIBMatic



Manual operation:

Digit one time left arrow one time

Digit at the same time ESC and ▽ button



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2. Technical data

2.1 Specification

- Power supply: 24V DC
- Max fuse: 6A
- Protection class: Pump IP65 – Control Panel IP56
- Min ambient temperature: 2°C - Max ambient temperature: 60 °C
- Pump Type: screw
- Control panel: Alogen Free Plastic
- Total Weight: Approx. 2 kg



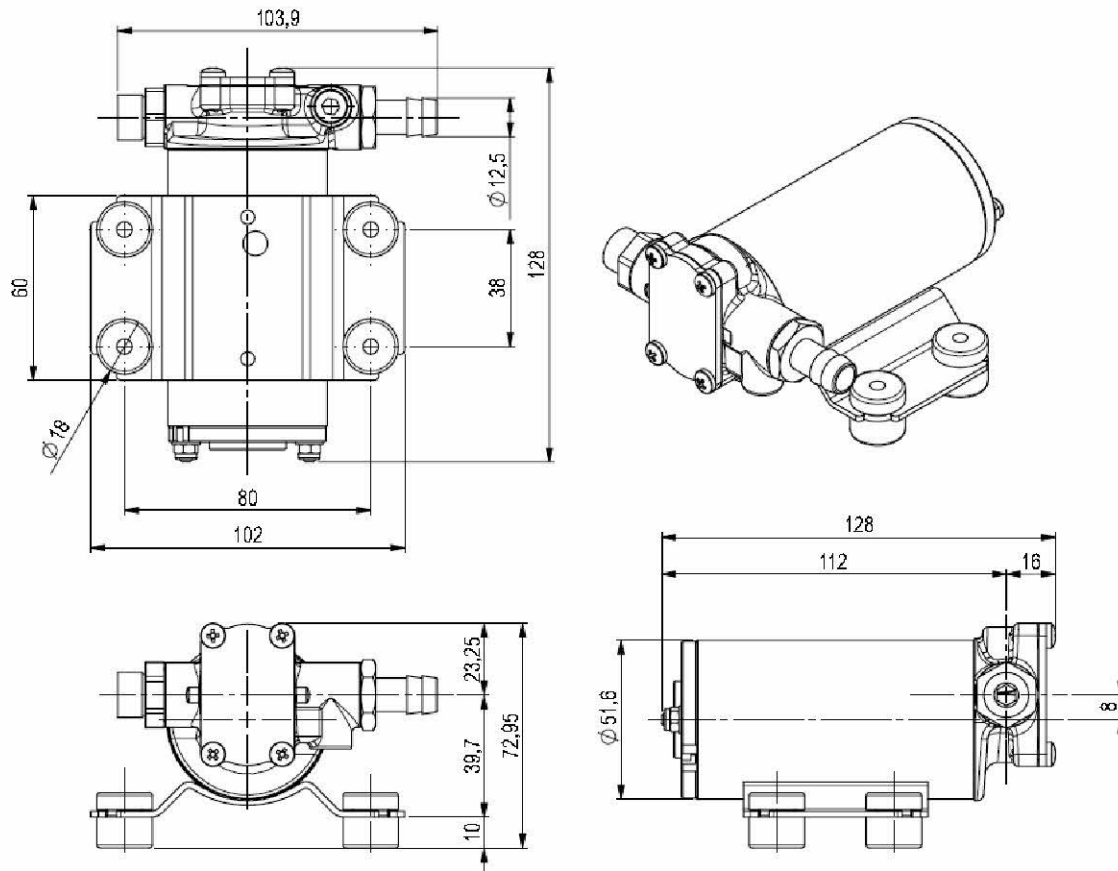
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2. Technical data

MIB-303 Sludge Removal Kit

2.2 Dimension





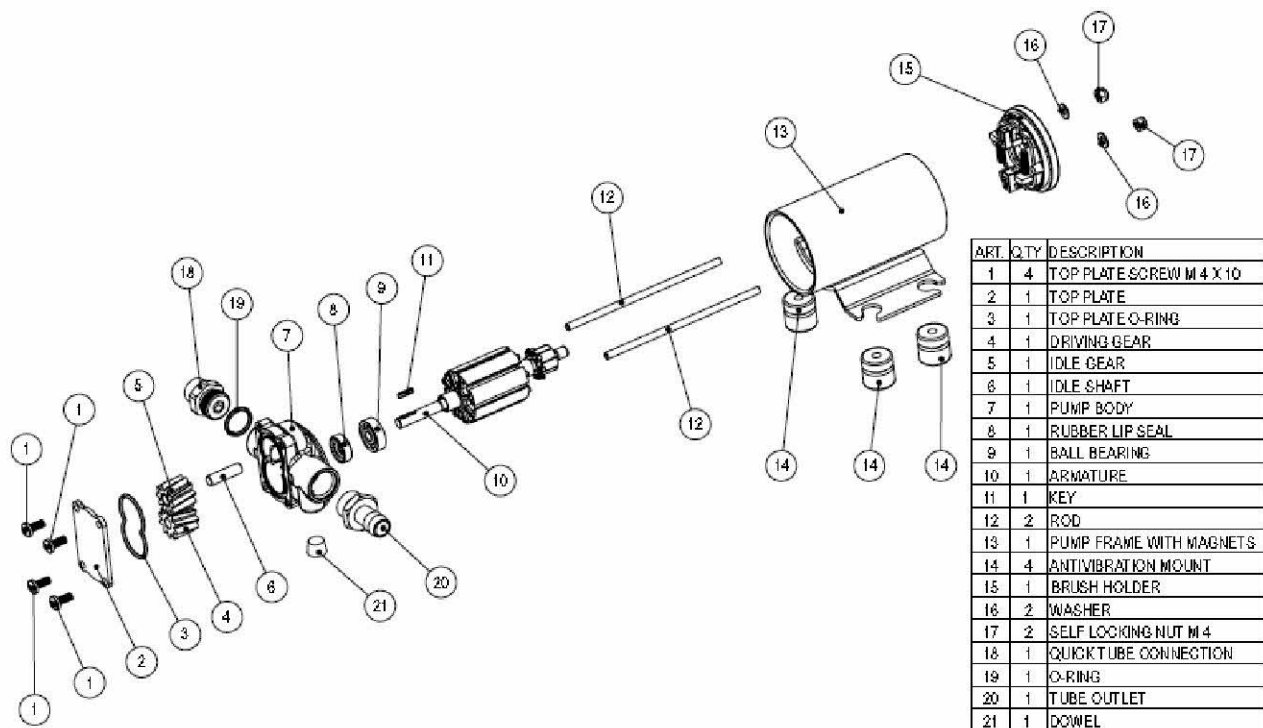
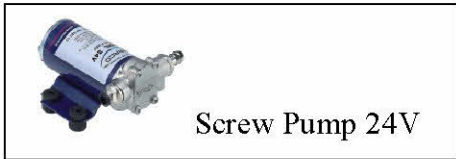
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2. Technical data

MIB-303 Sludge Removal Kit

2.3 Spare parts



Check every month the pump chamber and keep clean from any foreign matter.
 Check every month that electrical wiring is in good condition.
 Every 800 hours of pump operation substitute the motor brushes.



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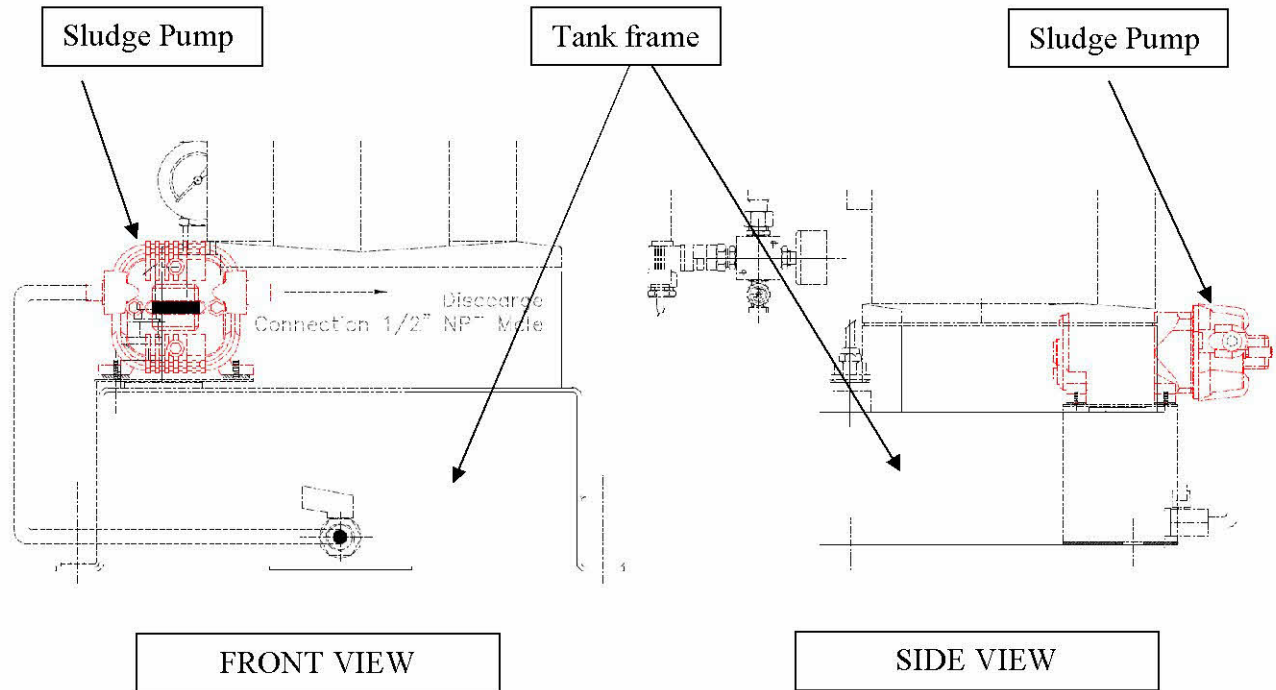
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3. Installation

3.1 SRK Installation on MIB303 tank frame



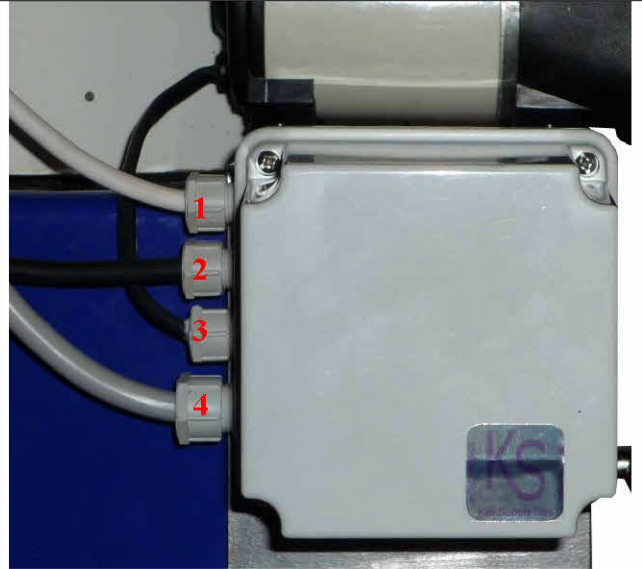
Tank connection: 1/2" R Female

Pump connection: 3/8" R Female

From Tank to pump is used Rilsan Pipe Diam. 10mm



Picture 1) Side View



Picture 2)
 1 – Power supply 24V DC
 2 – From Level Switch
 3 – From Diaphragm Pump
 4 – To Control Panel MIBMatic



Picture 3) Front View



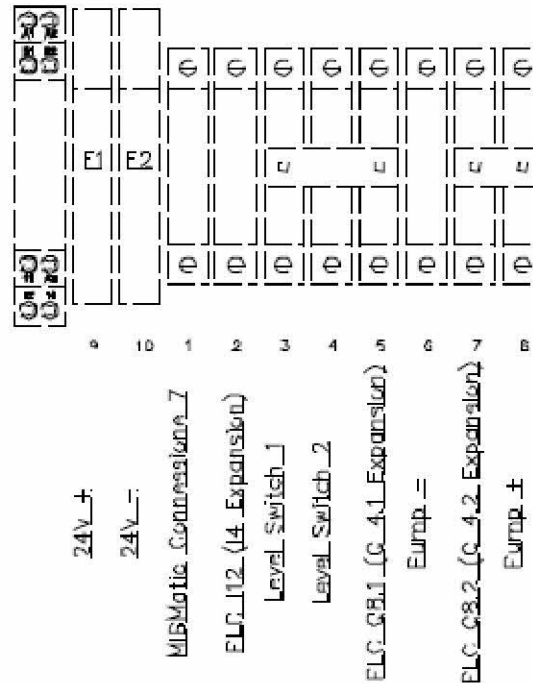
Picture 4) Top View



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3.2 Control Panel Connection



1	To MIBMatic on connection 7 (Picture 2 see cable #4 - 4 wires cable – Black)
2	To MIBMatic PLC on Expansion on I4 (Picture 2 see cable #4 - 4 wires cable – Gray)
3	From Level Switch (Picture #2 – Cable #2)
4	From Level Switch
5	To MIBMatic PLC on Expansion on Q4.1(Picture 2 see cable #4 - 4 wires cable – Brown)
6	Pump (-) 24V DC (Picture #2 – cable 2)
7	To MIBMatic PLC on Expansion on Q4.2 (Picture 2 see cable #4 - 4 wires cable – Yellow/Green)
8	Pump (+) 24V DC (Picture #2 – cable 2)
9	Power Supply (+) 24V DC (Picture 2 see cable #1 - 2 wires cable – Brown)
10	Power Supply (-) 24V DC (Picture 2 see cable #1 - 2 wires cable – Blue)



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4. Safety Information and Troubleshooting

Pump

- Do not run dry
- Clean periodically the filter on the inlet side
- Control the impeller yearly

Troubleshooting

Check point if the pump has stopped or will not start

- Check the effectiveness of the battery power supply (voltage activity)
- Check if the fuse in the SRK control panel has blown
- Check for any foreign matter present in-between the pump gear drives. To do this, disconnect the power supply and unscrew the four fixing screws, remove the pump front cover plate and inspect the pump chamber. Replace the cover plate in the same initial position after inspection.
- The average life span of the motor commutator brushes is approximately 500/700 hours under normal operating conditions. After such period stoppages are possible due to brush wear and tear.

Why the pump will not prime itself

- The pump is fitted at a height greater than 1,5 mt above the fluid
- The pump has run dry for too long period
- Air leak in the suction side pipe due to possible cuts, etc
- Clogging of the filter
- Presence of restriction or obstruction in the pipes
- Presence of liquid loops in the outlet tube

It is recommended that a specialized service technician be consulted for any pump repair work or replacement of worn out internal components, exclusively with original spare parts.