Installation samples for
DELTA oil supply units

Two Pipe / One Pipe -
Installation
for supply to one oil burner which is
located apart from the fuel tank. The
supply unit works in two pipe system,
the oil burner is served by an oil
pressure line.

1. Connect oil supply pump with supply and return line.
2. Change oil burner pump to one pipe system.
3. Connect motor of supply unit and oil burner in parallel
mode.

One Pipe / One Pipe -
Installation
Both oil supply pump and oil burner
pump work in one pipe system. Select
pipe diameter according to oil burner
output.

1. Change oil supply pump to one pipe system.
2. Change oil burner pump to one pipe system
3. Connect motor of supply unit and oil burner in parallel
mode.

Circuit Pipe Line
Installation
for supply of one or more oil burners
operating in two pipe system. Connect
oil supply pump and oil burner pumps
with supply and return line. The circuit
line pressure will be adjusted with the
pressure regulating valve DR.

1. Connect oil supply pump with supply and return line.
2. Connect oil burner pumps with supply and return line.
3. Oil supply unit will operate independently from oil burners.

Installation with supply tank
for supply of one or more oil burners in
one or two pipe system. Installation of a
level control switch (upper switch-off
point) is necessary to avoid overflowing
of oil. To prevent the oil burner pumps
from damage due to running out of oil
(lower switch-on point) it is
recommended to install an oil flaw
switch.

1. Connect oil supply pump with supply and return line.
2. Connect oil burner pumps with supply and return line.
3. Oil supply unit will be switched on by level control switch L
if necessary.

Index of short cuts:

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<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>Safety switch-off valve</td>
<td>Oil burner with fuel pump</td>
<td>Pressure reduce valve</td>
<td>Pressure regulating valve</td>
<td>Filter</td>
<td>Oil supply unit</td>
<td>Gas or air separator</td>
</tr>
<tr>
<td>L</td>
<td>M</td>
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<td>Level control switch</td>
<td>Pressure gauge</td>
<td>Return line</td>
<td>Tank</td>
<td>Supply line</td>
<td>Supply tank</td>
<td></td>
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</tbody>
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Common advice:
To prevent malfunctions and noise the following recommendations for pipe
diameters should be noticed:

<table>
<thead>
<tr>
<th>Flow rate</th>
<th>DN</th>
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</thead>
<tbody>
<tr>
<td>up to 55 l/h</td>
<td>6 mm</td>
</tr>
<tr>
<td>up to 80 l/h</td>
<td>8 mm</td>
</tr>
<tr>
<td>up to 100 l/h</td>
<td>10 mm</td>
</tr>
<tr>
<td>up to 180 l/h</td>
<td>12 mm</td>
</tr>
<tr>
<td>up to 270 l/h</td>
<td>14 mm</td>
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<tr>
<td>up to 330 l/h</td>
<td>16 mm</td>
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All pressure reduce and regulating valve
settings should not exceed the allowed
maximum supply and return line pressure
of the fuel oil pumps (for example 0,5 bar).
The oil supply unit capacity may be
adapted to the maximum fuel consumption
of all connected oil burners. Avoid
exceeding maximum capacity of the supply
oil unit.

Please note manufacturers advice when
changing the fuel oil pumps to one pipe
system and for maximum length of the
suction line.