Exploded view of lip seal arrangement.

- Ceramic sleeve
- Single Cofferdam lip seal
- Support Ring
- Hexagon Bolt
- Support Ring
- Double Cargo Lip Seal
- O-ring
- Seal Ring Housing
- Hexagon Bolt
- Drive Ring
- Framo Seal Element
- O-ring
- Bolt
- Impeller Hub
- Washer
- Bolt with locking washer

Fig. 17
3.3 Dismantling of mechanical oil seal

<table>
<thead>
<tr>
<th>Name</th>
<th>Standard tools (Tool List: 32-357-4)</th>
<th>Special tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen key</td>
<td>6 mm</td>
<td>Extractor for impeller</td>
</tr>
<tr>
<td>Allen key</td>
<td>10 mm</td>
<td>Extractor for sleeve (to be used with extractor for impeller)</td>
</tr>
<tr>
<td>Spanner</td>
<td>18 mm</td>
<td>Assembling cylinder (for protection)</td>
</tr>
<tr>
<td>Spanner</td>
<td>19 mm</td>
<td>Assembling tool (for mech. oil seal)</td>
</tr>
<tr>
<td>Snap ring plier</td>
<td>A2</td>
<td>Bolt stud M12x 100, 2 pcs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hexagon nut M12, 2 pcs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washer 12, 2 pcs</td>
</tr>
</tbody>
</table>

Remove the bearing housing from the pump casing. Use extractor bolts M12.

Fig. 18
Remove upper seal ring housing.
Remove stationary part of mechanical seal.

Pull out rotating part of mechanical seal by use of assembling tool.
Exploded view of mechanical oil seal.

- Bolt
- Upper Seal Ring Housing
- FRAMO Seal Element
- Stationary part
- Rotating part
- Mechanical Oil Seal
- Sleeve for mech. oil seal

Fig. 21
Exploded view of wear rings/impeller/volute casing.

- Hexagon bolt with washer
- Wear ring support
- Wear ring
- Volute Casing
- Framo Seal Element
- O-ring
- Impeller
- Suction Cover with stud bolts
- Locking Ring
- Wear Ring
- Suction Funnel
- Hexagon Nut with washer

Fig. 14