Installation Guide

Pressure-tight installation

Check that the frame is clean and that the inside is well lubricated. All Lycon parts must be lubricated carefully with MCT Brattberg lubricant.
Place the compression plate in the centre so that the Lycon rubber is pushed upwards between the compression plate and the frame. The seal must not be subjected to pressure for at least 48 hours after installation. This is to allow the pressure to equalise throughout the penetration. It will take more time for the pressure to equalise at temperatures below 20°C.

1. Measure the opening and check that the measurement is within the tolerance range 120.5 mm +/- 0.5 mm (4.74 +/- 0.02”). Check that the frame is clean and pull through the cables. Measure the diameter of the cables and choose suitable blocks. Lubricate the inner faces of the frame.

2. Insert block. The blocks are identified by their width (A) and hole diameter (B). A block that is 30 mm (1.18”) wide and has a hole diameter of 18 mm (0.71”) is marked 30/18. This marking is cast into the block.

3. Pack the frame. Place stayplates between each row of blocks.

4. Insert the top row of blocks.

5. Pack the frame. Place stayplates between each row of blocks.

6. Tighten the bolt in the compression plate anticlockwise until there is a gap of 32-33 mm (1.26-1.30”) between the top of the plate and the inside of the frame.

7. Insert the STG end-packing with the tongue around the compression bolt. Tighten the nuts in the end-packing until 12-15 mm (0.47-0.59”) of thread is visible.

Begin packing with the special corner blocks. Proceed as shown in image 3 and then see STG Endpacking image 4-6. Insert end packing C-STG (with special corner blocks). Tighten the nuts on the end packing to compress and complete the seal. About 1.2 mm (0.47”) of the thread should protrude on each bolt.

Begin packing with the special corner blocks. Proceed as shown in image 3 and then see PTG Presswedge. The PTG Presswedge can be placed anywhere except at the top or bottom. At the top row insert the special corner blocks and then the last row of blocks. Tighten the nuts in the PTG to the end or 20 Nm.

Begin packing with the special corner blocks. Proceed as shown in image 3 and then see PTG Presswedge.
**AddBlock**

Measure the opening and check that the measurement is within the tolerance range 120.5 mm +/- 0.5 mm (4.74" +/- 0.02"). Check that the frame is clean and pull through the cables. Measure the diameter of the cables and choose suitable blocks. Lubricate the inner faces of the frame.

Tear off attached sheet to fit the dimension selected.

Place sheet into centre slot and affix it with the unique locking device.

Tear off superfluous sheets.

Pack the frame. Place stayplates between each row of blocks.

**HANDIBLOCK**

Measure the opening and check that the measurement is within the tolerance range 120.5 mm +/- 0.5 mm (4.74" +/- 0.02"). Check that the frame is clean and pull through the cables. Measure the diameter of the cables and choose suitable blocks. Lubricate the inner faces.

Select the HandiBlock that fits the cable / tube.

Select the two compression rings closest to the cable diameter. Remove all compression rings smaller than the selected.

If the insert gets longer than the block, remove the current rings in the middle.

Place the two inserts in the main block so that the outermost rings are at the outer edge of the main block.

Build the second block half the same way. Insert the cable / tube and lay over the block half. Continue packing as shown in figure 4 on the left side.

**U-Block**

Measure the opening and check that the measurement is within the tolerance range 120.5 mm +/- 0.5 mm (4.74" +/- 0.02"). Check that the frame is clean and pull through the cables. Measure the diameter of the cables and choose suitable blocks. Lubricate the inner faces of the frame.

Select a suitable block for the largest cable in the row.

Select a suitable InsertBlock or AddBlock for the small cable. Then create a base using U-Blocks. The external measurements should be the same as the previous block.

Start packing the frame.

Insert stayplates between each row of insert blocks.

Plugs for AddBlock and HandiBlock see page 29 and 30.

Ø 21-35 mm (Ø 0.83 - 1.38")

Ø 41-5 mm (Ø 0.16 - 0.2")

Ø 11-24 mm (Ø 0.43 - 0.94")

Ø 32-54 mm (Ø 1.26 - 2.13")

Ø 11 - 24 mm (Ø 0.43 - 0.94")

Ø 21-35 mm (Ø 0.83 - 1.38")
Disassembly Guide

**STG**

1. Remove the nuts and the hardware from the face of the endpacking.

2. Attach the endpacking puller to the bolts with the nuts from the endpacking.

3. Tighten the bolt on the puller and the endpacking slides out.

4. Remove the endpacking.

Horizontal Installation Guide

1. Measure the opening and check that the measurement is within the tolerance range 120.5 mm ±/− 0.5 mm (4.74"+/−0.02"). Check that the frame is clean and pull through the cables. Measure the diameter of the cables and choose suitable blocks. Lubricate the inner faces of the frame.

2. The blocks are identified by their width (A) and hole diameter (B). A block that is 30 mm (1.18") wide and has a hole diameter of 18 mm (0.71") is marked 30/18. This marking is cast into the block.

3. To prevent the blocks from falling through during horizontal installation, fit all the stayplates and the compression plate first. Check the RG plan to make sure the cables are positioned correctly.

4. Insert the outer blocks first (A, B, C, etc.). Then insert the rest of the blocks. Note: block A must be rotated 90°, see diagram.

5. Pack the frame. Tighten the bolt in the compression plate anticlockwise until there is a gap of 32·33 mm (1.26"−1.30") between the top of the plate and the inside of the frame.

6. Insert the STG endpacking with the tongue around the compression bolt. Tighten the nuts in the endpacking until 12·15 mm (0.47"−0.54") of thread is visible.

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**Disassembly Guide**

STG

Remove the nuts and the hardware from the face of the endpacking.
RGP Installation

Measure the pipe/drilled hole to ensure that the size conforms to tolerance standards.

Insert the RGP frame in the opening. No lubricant should be applied to the hole or to the outside of the frame.

Place the frame in correct position in the hole. Check that the frame is clean and pull through the cables. Place the largest cables at the bottom of the frame. Measure the diameter of the cables and choose suitable blocks.

Begin packing.

Tighten the nuts in diagonal order until 10-12 mm (0.39”-0.47”) of thread is visible.

Insert Block. The blocks are identified by their width (A) and hole diameter (B). A block that is 30 mm (1.18”) wide and has a hole diameter of 18 mm (0.71”) is marked 30/18. This marking is cast into the block.

Dimensions for pipes and drilled holes

<table>
<thead>
<tr>
<th>RGP type</th>
<th>RGP ID mm</th>
<th>RGP type</th>
<th>RGP ID Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGP 50</td>
<td>50-51</td>
<td>RGP 2”</td>
<td>1.97-2.01”</td>
</tr>
<tr>
<td>RGP 70</td>
<td>70-71</td>
<td>RGP 3”</td>
<td>3.04-3.11”</td>
</tr>
<tr>
<td>RGP 100</td>
<td>100-102</td>
<td>RGP 4”</td>
<td>4.08-4.14”</td>
</tr>
<tr>
<td>RGP 125</td>
<td>125-127</td>
<td>RGP 5”</td>
<td>5.08-5.13”</td>
</tr>
<tr>
<td>RGP 150</td>
<td>150-152</td>
<td>RGP 6”</td>
<td>6.08-6.11”</td>
</tr>
<tr>
<td>RGP 200</td>
<td>200-202</td>
<td>RGP 8”</td>
<td>8.08-8.11”</td>
</tr>
<tr>
<td>RGP 300</td>
<td>300-302</td>
<td>RGP 11.8”</td>
<td>11.8-11.9”</td>
</tr>
</tbody>
</table>

PRESSURE-TIGHT INSTALLATION RGP

All contact surfaces between the pipe and the RGP plug must be cleaned carefully prior to installation. Do not use any lubricant on these surfaces. All blocks must be lubricated carefully with MCT Brattberg lubricant. The penetration must not be subjected to pressure for at least 48 hours after installation. This is to allow the pressure to equalise throughout the penetration. It will take more time for the pressure to equalise at temperatures below 20°C.