Chain wheel drive

Add. version V00

1 Purpose

The chain wheel drive enables manual operation of actuators mounted at greater heights (up to approx. 8 m) from ground level. Ascending to the actuator is therefore not necessary.

2 Assembly

1. Insert chain on chain wheel.
2. Shorten the chain to the desired length.
3. Cut the last chain link with a saw and bend up a little.
4. Hook the first chain link into the bent up chain link and press it together again.
5. Attach the pull rope extension.

The pull-rope extension is not included in the scope of delivery. See also information in chapter 5.

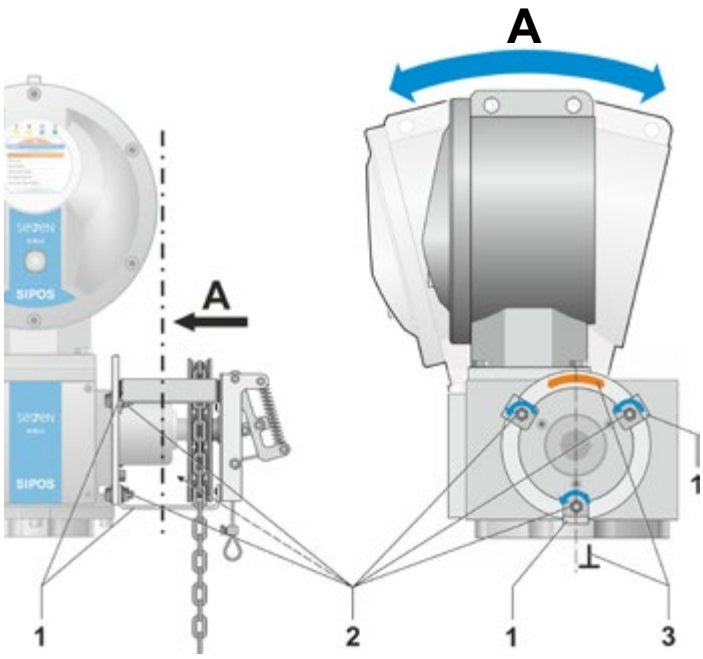

Fig. 1: Align chain wheel drive vertically

3 Align chain wheel drive vertically [1)]

If the drive is mounted inclined forwards or backwards, the chain wheel drive must be aligned in such a way that the chain runs freely without rubbing against a bar.

1. Only loosen the 3 nuts (Fig. 1, Item 2) at the stays of the chain wheel drive (1).
2. Align the chain wheel drive vertically (3): Turn the chain wheel drive until the chain can run freely without grinding at a stay.
3. Tighten the three nuts (2) (tightening torque 4 Nm).

4 Moving the actuator in chain wheel operation

1. Pull the rope (1).

When pulling the pull rope, the chain wheel must engage almost flush with the manual drive. If necessary, the chain wheel position may have to be changed slightly by slightly pulling the chain!

2. Keep pull taut, secure against relaxation if necessary!
3. Pull the chain on one side to move the valve (2). Clockwise rotation of the chain wheel results in clockwise rotation of the output shaft.

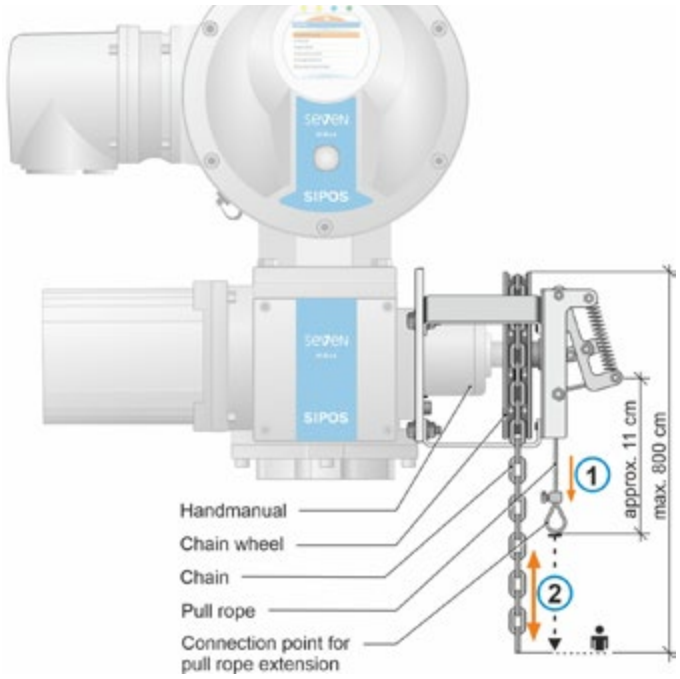

Fig. 2: Manually operating the actuator

5 Overview techincal data

<table>
<tr><th colspan="7">Technical Data Chain wheel drive</th></tr>
<tr><td colspan="2">Version ▶</td><td>V00</td><td>+ V10</td><td>+ V11</td><td>+ V12</td><td></td></tr>
<tr><td colspan="2">Installation height ▶</td><td>max. 8 m</td><td>max. 3 m</td><td>max. 5 m</td><td>max. 8 m</td><td></td></tr>
<tr><td rowspan="3">Chain (Option V10, V11 and V12) loosely enclosed with the delivery.</td><td>Length</td><td>without</td><td>4 m</td><td>8 m</td><td>14 m</td><td></td></tr>
<tr><td>Type</td><td colspan="4">DIN 766A, galvanized</td></tr>
<tr><td>Version</td><td colspan="4">d4/t16; weight 0,32 kg/m</td></tr>
<tr><td colspan="2">Mounting position of actuator</td><td colspan="4">As shown, with horizontal axis to the chain wheel!
Compensate inclination of the actuator by corresponding counter alignment of the chain wheel drive, see chapter 3.</td></tr>
<tr><td rowspan="2">Pull rope extension</td><td>Type</td><td colspan="4">Low-stretch pull rope (not included in the scope of delivery!)</td></tr>
<tr><td>Weight</td><td colspan="4">Max. permissible weight 0.5 kg</td></tr>
<tr><td rowspan="5">Switch-over force/ Holding force</td><td>at pull rope</td><td colspan="4">Change-over to chain wheel operation is done by pulling the pull rope. Due to lever mechanism, the pull rope moves downwards by the length required for switch-over.</td></tr>
<tr><td>Type</td><td>Switch-over length</td><td>Switch-over force</td><td>Holding force</td><td></td></tr>
<tr><td>2SA7.1/2</td><td>approx. 15 – 18 mm</td><td>max. 35 N</td><td>approx. 25 N</td><td></td></tr>
<tr><td>2SA7.3/4</td><td>approx. 15 – 18 mm</td><td>max. 75 N</td><td>approx. 35 N</td><td></td></tr>
<tr><td>2SQ7</td><td>approx. 13 mm</td><td>max. 120 N</td><td>-</td><td></td></tr>
<tr><td rowspan="5">Traction force</td><td>at chain</td><td>Type</td><td colspan="3">Traction force</td></tr>
<tr><td>2SA7.1/2</td><td colspan="3">max. 75 N</td></tr>
<tr><td>2SA7.3/4</td><td colspan="3">max. 220 N</td></tr>
<tr><td>2SQ7</td><td colspan="3">max. 75 N</td></tr>
<tr><td colspan="4">Attention! The pull rope must be stretched tightly with holding force during operation.[1)]</td></tr>
</table>

[1)] not for 2SQ7