Care Instructions:
- Overstretching of the top and bottom stops should be avoided.
- Regular cleaning with fresh water and use of a suitable lubricant is advised in order to prevent damage to the tape and seals.*
- AQUASEAL® zipper is sensitive to UV degradation, creasing, delamination and wear through friction.
- Folding or crushing may affect zipper performance.

Attachment:
Normal sewing in combination with seam taping. Direct welding will depend on material compatibility, welding equipment and settings.
When applying heat and pressure during attachment, damage to the tape and elements should be avoided. Overstretching of the top and bottom stops should be avoided. A reinforcement strap feature is available.

*The Application Position of Lubricant:
1. Apply lubricant to Top-Seal as indicated in the diagram.
2. The lubricant will then distribute along the zipper elements, by operating the slider a few times.

Note: For Single-Seal or Open-End the instruction should be different:
1. Apply wax/lubricant along the zipper elements as indicated in the diagram.
2. The lubricant will then distribute along the zipper elements, by operating the slider a few times.

Disclaimer
The purchaser/user is solely responsible for testing the AQUASEAL® zippers for suitability in the proposed application. Any proposed use of AQUASEAL® zippers must be fully and appropriately tested by the purchaser/user. For uses in life/limb or other safety critical circumstances, field trials are recommended. YKK disclaims all implied warranties with respect to AQUASEAL® zippers, including without limitation any implied warranties of merchantability and fitness for a particular purpose. In no event shall YKK be liable for any indirect, special, incidental, or consequential damages relating to AQUASEAL® zippers, whether based on breach of express or implied warranty, breach of contract, negligence, strict liability or any other basis.

Visit our website and contact us for more information.
AQUASEAL® zipper is the lightweight fully waterproof zipper to consider for equipment complying with the latest international maritime safety standards.

### Item Lineup

<table>
<thead>
<tr>
<th>Size</th>
<th>Chain</th>
<th>Type</th>
<th>Tape</th>
<th>Slider</th>
<th>Zipper Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>VFWN</td>
<td>Closed-end (W-SEAL/S-SEAL), separator 2way separator</td>
<td>PU19B</td>
<td>NA, NF</td>
<td>37MM</td>
</tr>
<tr>
<td>10</td>
<td>VFWB</td>
<td>Closed-end (W-SEAL/S-SEAL), separator 2way separator</td>
<td>PU23B, PU31B</td>
<td>NAZ, NF, SAZF</td>
<td>PU23B: 44MM, PU31B: 60MM</td>
</tr>
</tbody>
</table>

### Materials

<table>
<thead>
<tr>
<th>Element</th>
<th>Slider</th>
<th>Top Stop</th>
<th>Bottom Stop/Open Parts</th>
<th>Tape</th>
</tr>
</thead>
</table>

### Slider Variations

- **No.5/No.10**
  - NAZ (plastic)
  - NFNT580 P-HIMO1 (plastic slider with cord)
  - NF1580T2 (plastic slider with T-bar)
  - SAZH (stainless)

### Features

1. **Light weight**
   - AQUASEAL® zipper weighs roughly half of conventional metal tight zipper.

2. **Easy Opening and Smooth Operation**
   - Combining VISION® technology with a seal between the zipper elements, AQUASEAL® zipper allows for easy and smooth operation with protection in critical situations.

3. **High resistance to corrosion**
   - Plastic and Stainless sliders have high resistance for use in salt water environments

4. **Guaranteed quality**
   - For maritime safety applications a size 10 version with high compression elements and extra wide tape is available in closed end, sealed at 0.3 bar water pressure and each zipper is INDIVIDUALLY TESTED and laser marked for traceability. AQUASEAL® zipper range specified at 0.05 bar pressure also contains a size 5 option, the world’s smallest waterproof fastener in its category, available in a full range of zipper functions.

### Special Feature Variations

- **Top Stop**
  - Fit-in type TS-NEWH
  - Fit-in type(sealed) TS-SEAL
  - Fit-in type(sealed) BS-SEAL
  - B-HOKYO

- **Bottom Stop**

- **Reinforcement Tape**

- **Upper Development**