

Very high corrosion protection

Add. version L38

(corrosivity category C5 with long protection time)

1 Description

Very high corrosion protection means the compliance with the requirements stipulated in EN 15714-2 and EN ISO 12944-2 for corrosivity category "C5" with long protection time. The corrosivity category complies with the exposure to loads and duration of exposure that a component has to withstand.

2 Measures for corrosion protection preservation

- To guarantee corrosion protection in environments with high corrosivity, the perfect condition of the coating system (paint) must be ensured at all times. After commissioning, the coating has to be inspected and possible damage has to be touched up. This applies also to damage to paint caused by opening screw connections. In case the coating is damaged during operation, the damage has to be touched up immediately.
- SIPOS recommends sealing the joint gaps below the actuators to avoid ingress of corrosive media into the mounting components (valves, yokes, etc.) and thereby prevent corrosive attacks on all rotating parts of the actuators. Either seal the joint gaps with a sealing agent from outside (i.e. grout with Ottocoll M500 by Hermann Otto GmbH) or apply grease (e.g. Zepf AR1 by Walter Zepf Schmierungstechnik) to the surface components before assembly. Pay special attention to the rotating parts of the output drive. Furthermore, we recommend using sealed valves so that no corrosion attack is possible at the stem.
- For connecting extensions, screws or washers in grade A4 quality (stainless steel suitable for use in maritime environments) must be used. We recommend applying liquid thread sealing material to the screws to avoid contact corrosion.
- To prevent the ingress of corrosive media into the actuator, pressure-tight cable glands in enclosure protection IP68 must be used.
- If equipotential ground bonding to neighboring parts is desired, this has to be done separately. For this, remove blanking plug of the external grounding connection at the electronic housing and attach a grounding cable using cable lug, contact washer (e.g. by Ettinger #3.20.059) and an M5 screw. Make sure corrosion-resistant grade A4 material is used. The contact washer is used to interrupt the eloxal layer at the housing.
- Ensure lubrication of the extensions (e.g. A output drives, linear actuators) via possibly available grease nipples at regular intervals.
- In case parts of the screw connection are to be replaced, SIPOS recommends exclusive use of grade A4 material. When replacing the screws, maintain configuration of the screws with support or contact washers.
- It is recommended that the services of the local SIPOS Aktorik service center are utilized for both commissioning and maintenance work.