

Test Report of IP67 on RC200 according to EN 60529:

Test date: 2017-10-20

Test object:
RC220-SR087
RC280-SR087

Background:
The test was carried out according to standard EN 60529.

IP67 means it is dustproof and protection against short-term immersion in water. Penetration of water in such amount that damage is caused may not be possible, when the enclosure is briefly immersed in water under standardized conditions.

The test is carried out by lowering the enclosure into water in the operating mode specified by the manufacturer to meet the following conditions:

- a) Enclosure with a height less than 850 mm shall have the lowest part 1000 mm below the surface of the water.
- b) The test time shall be 30 minutes.
- c) The water temperature must not deviate from the enclosure temperature by more than 5 K (°C).

Test procedure:

A tank (1000x1000x1000) was filled with 1000 liters of water. The actuators were placed on the bottom of the tank in 37 minutes (Figure 1).



Figure 1: Water tank with actuators.

When the test was carried out, the actuators were dried on the outside and disassembled (Figure 2).

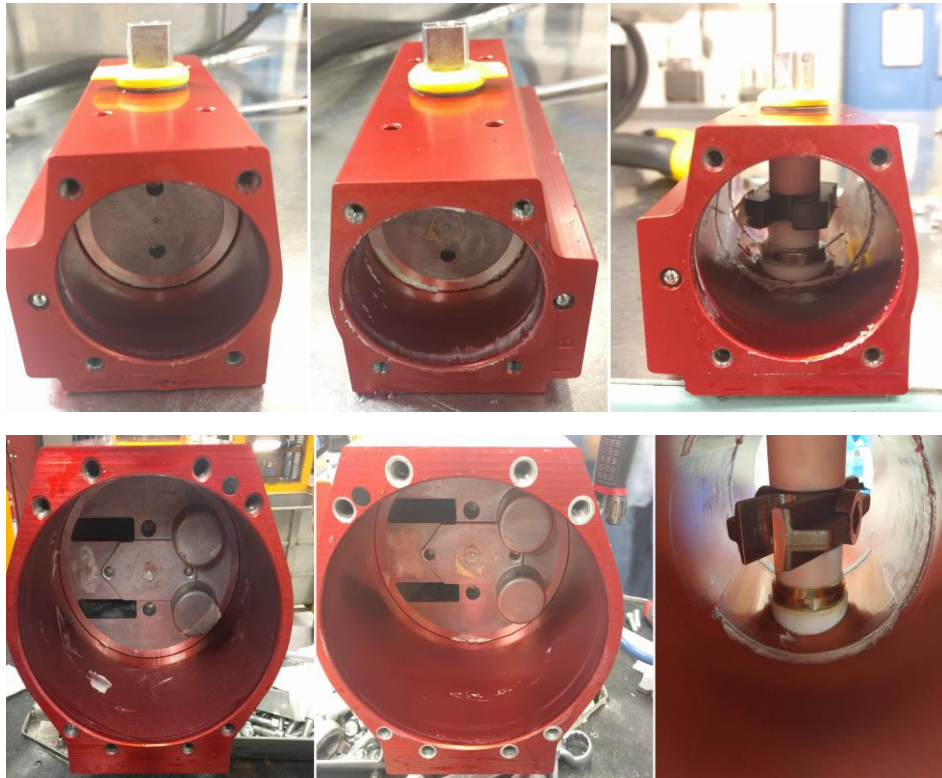


Figure 2: Observation after test.

Actual test circumstances:

Room temperature: +20°C

Actuator temperature: +20°C

Water temperature: +20°C

Results:

No visible water could be observed when the actuators were disassembled.

Comments:

The test objects RC220-SR and RC280-SR representing one of the smallest and largest actuator. Therefore it should also represent the actuator range RC210-RC280, and RC88.