

RCT200 and RCT88

Pneumatic Actuators for offshore and arduous conditions

RCT - for hard environments



The Remote Control RCT actuators from Rotork have a patented surface treatment which involves the parts being hard-anodized. Hereby the surface structure is sealed with PTFE in an oven-process. The surface is thereby made very hard, more than 60HRC, and also water-resistant, wear-resistant and it will not peel as a painted surface does. In addition to this, the surface treatment received through this process will cover the entire surface all around, even inside air ducts and the likes of these. Salt Spray Tests also show that the RCT actuators withstand over 2000 hours without noticeable effect from corrosion.

The Remote Control RCT actuators are suitable for applications in corrosive environments with a neutral pH (pH7). As in e. g. coastal areas (even tropical climate), wet applications in paper machines and wash halls as well onboard ships.

Technical Data

- Double acting or single acting with spring return
- Pre-tensioned springs for safety
- Connections according to international standards
- Mounting kits for all types of quarter turn valves
- Hard and durable surface
- Lighter and more economical than steel/stainless steel
- Scotch Yoke principle gives high torque in the end positions
- Precise control, smooth travel in the end positions
- High reliability, long life, three-year warranty
- High efficiency, low air consumption
- Housing in hard anodized and PTFE sealed aluminium
- Drive shaft and screws in stainless steel
- Temperature Range: -20 °C - +80 °C
- Options: Manual override M1, quick acting, speed restrictor, high temp, low temp, low temp Arctic, water hydraulics, oil hydraulics

Technical Information

RCT-actuators have a patented surface treatment method for aluminium, which combines hard anodising and fluoric plastic treatment.

Hardness

The surface coating of RCT actuators consists mainly of aluminium oxide, which has a hardness of more than 2000 HV.

The hardness of the layers is reduced, however, due to a certain micro porosity. Depending on the thickness of the layer and the quality of the aluminium surface, the hardness may vary between 400 and 600 HV.

As the layer is being built by converting the surface material, it is well secured to the base material and cannot peel.

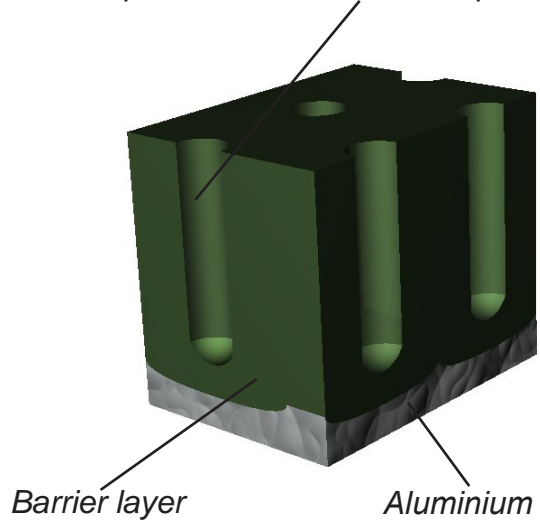


Corrosion resistance

The layer offers a considerably higher corrosion protection than the conventional hard anodising. The surface treatment has the best corrosion protective qualities, has a high hardness and withstands more than 2000 h corrosion testing in neutral salt mist without being affected, according to ASTM B 117.



Micro pores sealed with fluoric plastic



References

We have delivered RCT actuators to a variety of applications where the actuator must withstand even the most oppressive conditions. Among others to the chemical and petrochemical industry, off-shore, waste water treatment plants and to the pulp and paper industry

For more information about different fields of application, please contact us.

