

ROTARY ACTUATOR CORROSION PROTECTION OPTIONS

BODY

Hard Anodized Aluminum : (Standard)

Special Aluminum alloy (6341 T6) used as a base metal.

Hard Anodizing of Aluminum results in better corrosion protection, surface hardness & superior wear resistance.

50µm thickness of controlled oxidized surface of the Aluminum alloy comprises primarily of Aluminum trioxide (Al_2O_3) crystals along with Magnesium, Tungsten oxides which make the surface chemically inert extremely hard (in excess of 45Rc).

Being an oxidized layer of the base metal Aluminum the treated layer can not be peeled off & so this is in an extremely stable surface treatment.

Surface withstands all environments including saline environment with the exception of strong acidic & alkaline atmospheres.

Electroless Nickel Treatment : 'EN'

Nickel is deposited on the aluminum surface (not electrolytically) by chemical reaction of nickel on the Aluminum body.

The treatment covers the crevices including threads, passage holes..... & leaves the surface absolutely non-porous. Superior corrosion resistance as compared to hard Anodising makes this treatment a suitable choice for corrosive environments. Ideal for external wash.

Epoxy Coated Actuators : 'CL'

Epoxy resin (powder) deposition on the prepared (Hard anodised) Aluminium body by spray technique followed by a baking process produces a 250 micron thick layer. (only external surfaces).

Epoxy coating helps in protecting the actuator from extremely corrosive environments. Choose this option specially for Acidic, Alkaline environment, also suitable for environments like Ammonia, Ammonia Liquor etc...

Pinion:

Electroless Nickel Plated : (Standard)

Standard surface treatment given to the pinion shaft of Steel (EN 8).

Adequate for most applications including corrosive environments.

Stainless Steel : '8/8M'

Optionally available for aggressive environments. Pinion can also be supplied in SS304/SS316

