

Product data sheet

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FieldQ

FieldQ valve actuator

Corrosion protection system

Description:

The corrosion protection system of FieldQ pneumatic valve actuators consist of the following treatments or materials:

1 Pretreatment

The actuator housings are anodized inside and outside, to give them a durable and superb protection against wear and corrosion.

The anodized base layer, takes care of excellent bonding between the aluminum surface and the coating.

Additionally the pistons are chromated to prevent the corrosion of the internals.

2 De-greasing.

All aluminum parts are de-greased before the powder coating is applied by washing with an alkaline solution to assure the best bonding between the aluminum surface and the coating.

3 Powder coating.

- Polyester non-TGIC based powder coating for exterior use.
- The powder coating is applied cold using automatic electrostatic spray equipment and is cured at minimum 190°C (374°F) offering excellent light and weather resistance.
- The powder coating thickness is 80 micrometer (3.1 mils).
- Good chemical resistance against most bases, acids, solvents, alkalis and oils at normal temperatures.
- Excellent exterior mechanical durability.
- The coating shows no decline of actuator functions after 1000 hours salt spray test.
- The powder coating is virtually solvent free, and therefore environmentally friendly.

4 High grade & hard anodized aluminum pinion.

Actuators with high grade & hard anodized aluminum pinions, passed a 1000 hours salt spray test.

5 Stainless steel or Deltatone® treated external steel parts.

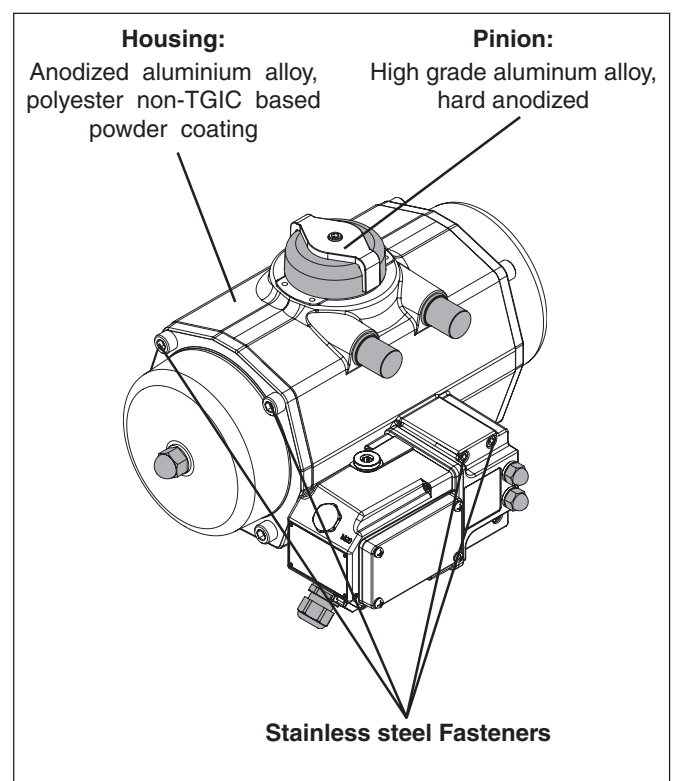
External parts are stainless steel or steel alloy with a Deltatone® treatment

6 Corrosion protected springs on Spring Return actuators

All the springs of spring return actuator are Deltatone® or epoxy (black) coated to prevent the corrosion of the springs and assure a long cycle life.

Technical data:

Coating	: Polyester non-TGIC based powder coating
Thickness	: 80 to 160 micrometer (3.1 to 6.2 mils).
Salt spray test	: 1000h (DIN 50021 / ASTM B117)
Color	: Yellow
Materials	: Housing : Anodized aluminium alloy
	: Pistons : Chromated
	: Pinion : High grade aluminum alloy, hard anodized
	: Fasteners : Stainless steel or alloy steel with Deltatone treatment
	: Tag plate : Stainless steel



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