



## Actuator Type S - Technical Data, Summary



TruTorq actuators are pneumatic quarter turn actuators based on double rack and pinion design.

The S-type actuator is generally recommended to "small" Ball valves and Plug valves.

**Material, standard (outside)**

- Anodized Aluminum, Black

**Movement**

- 0° to 90°
- Controlled adjustment of + 5°, Open position

**End Stop Adjustment**

Single End Stop Adjustment, Open position, located in the End Cap

**Sizes**

- 3, 5 and 10

**Torque**

Linear torque, ie a Double Acting (DA) Actuator has the same torque over the entire movement

**Torque Output, Double Acting (DA) at 6 bar/80 psi**

- 23 to 101 Nm
- 192 to 827 in.lbs

**Torque Output, Spring Return (SR) at 6 bar/80 psi**

- 8 to 40 Nm
- 64 to 328 in.lbs

**Operating Pressure**

- DA: 2-10 bar / 30-145 psi
- SR: 2-10 bar / 30-145 psi. When the Actuators will be used at Operating pressures below 5.5 bar / 79.8 psi, we recommend that you contact your TT distributor.



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**Drive Medium**

- Standard: Air (Dry or Lubricated) or inert gases (non-dangerous fluids)

**Temperature Range, Standard execution** (Buna Nitrile, NBR O-seals)

- - 30° to + 80°C
- - 22° to + 175°F

**Temperature Range, High temperature** (Viton O-seals)

- - 20° to + 140°C
- - 4° to + 284°F

**Stroke, Double Acting (DA)**

Looking at the front of the Actuator, Port A is on the left side and Port B on the right

Port A: Air to Open (Anti-clockwise)

Port B: Air to Close (Clockwise)

**Stroke, Spring Return (SR)**

Port A: Air to Open (Anti-clockwise, compressing springs)

Port B: Breeding Port

Setting from the factory: Fail close (FC), clockwise closing. To change to Fail Open (FO): see separate instructions

**Drive shaft**

Stardrive shaft tailored to international standard for square-section shafts.

**Standard Connections**

Solenoid valves – Namur

Fitting accessories – ISO 5211, DIN 3337, Namur

Stardrive shaft – ISO 5211 (90°), DIN 79 (45°), Namur

**Lubricants, recommended**

Springs and piston rack segments: Statoil Molyway LI 712 or similar

O-rings and plastic parts: Statoil Uniway LIX 42PA or similar

**Standards and Certificates**

The Actuators are designed to and in compliance with several different standards. They also have different types of certificates, see separate information.