



## ECON® Pneumatic actuator Type: 7901 Aluminium Single acting, spring open



### Characteristics

**Type:** 7901  
**Transmission:** Quarter turn  
**Operating principle:** Single acting, spring open  
**Top flange standard:** ISO 5211  
**Stem shape:** Double square  
**Square type:** Double square  
**Material housing:** Aluminium  
**Housing surface protection:** Anodized  
**Material cover:** Aluminium + Epoxy  
**Spindle material:** Steel  
**Material bolts:** Stainless steel  
**Top flange connection:** NAMUR [VDI/VDE 3845]  
**Distance of mounting holes:** 80x30  
**Shaft height:** 30 mm  
**With mechanical setting indicator:** Yes  
**Puck:** Yes  
**Puck for sensor:** Yes  
**Connection standard air supply:** NAMUR [VDI/VDE 3845]  
**Air supply connection:** 1/4" [8] internal thread [BSPP]

### Application

- The Econ® Rack & Pinion pneumatic actuators are ideal for the on/off or continuous operation of plug, butterfly and ball valves.

### Technical Information

- Single acting output torque up to 5.068 Nm [44.856 in-lb].
- Working temperature -30 °C to 100 °C [-22 °F to 212 °F].
- Angle of rotation is 90° ±5° by means of external travel stops [between 85° and 95°].
- Guaranteed service life of 500.000 cycles.
- Anti-friction sliding bearings provide long life without maintenance.
- Hard anodized aluminum body.
- Serialnumbers on body part for traceability.
- End caps denote spring return or double acting set up.
- Multifunction position indicator suitable for mechanical limit switches or dual proximity sensors.

### Construction

- Anti-blowout pinion design.
- Mounting and drive connections to ISO 5211 and DIN 3337.
- Air supply and top flange connection according to NAMUR VDI/VDE 3845.
- Anti-corrosive coatings according to EN-ISO 12944-2 C3.

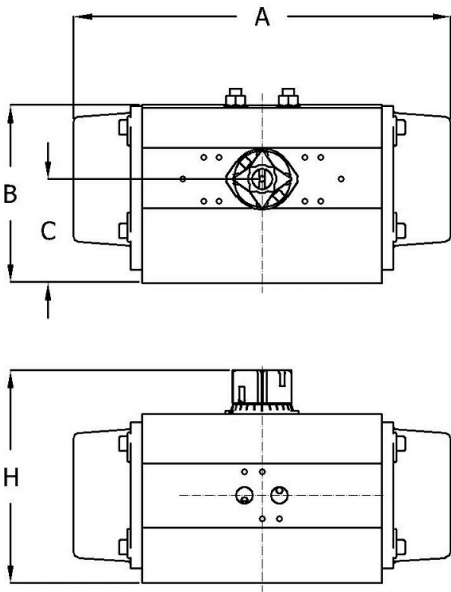
### Approval

- Safety integrity rating IEC 61508 SIL 2 [SIL 3 in redundant configuration].
- Classified for use in potentially explosive atmospheres as Group II, Category 2, suitable for zones 1, 2, 21 and 22 in accordance with Annex VIII of Directive 2014/34/EU [ATEX].
- In accordance with Pressure Equipment Directive [PED] 2014/68/EU, Econ® Rack & Pinion actuators are classified as follows: > Size DA/SR 10 to 850 - Category SEP > Size DA/SR 1200 to 4000 - Category I.

### Options

- Low temperature version down to -60 °C [-76 °F].
- High temperature version up to +150 °C [302 °F].
- Stroke limitation up to 100%.
- Safety lockout device.
- Passivation choices include: Epoxy coating, Polyurethane coating, PTFE coating, Nickel plating [Corrosion categories according to EN-ISO 12944-2 C4, C5I or C5M].
- Stainless steel pinion [Grade 304 and 316].
- Maximum working pressure 8 bar [120 psi].

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Size table:

| A   | B   | C  | H   | Weight |
|-----|-----|----|-----|--------|
| mm  | mm  | mm | mm  | kg     |
| 163 | 76  | 48 | 96  | 1.5    |
| 195 | 91  | 56 | 115 | 2.3    |
| 217 | 111 | 66 | 137 | 3.6    |
| 258 | 122 | 71 | 147 | 4.8    |
| 299 | 136 | 78 | 165 | 7.3    |
| 349 | 153 | 86 | 182 | 10.8   |
| 397 | 173 | 96 | 199 | 15.4   |

| Model | Mounting flange | Mounting flange 2 | Square dimensions | Square dimensions 2 | Torque single acting start air 6 bar | Torque single acting end air 6 bar | Torque single acting start spring 6 bar | Torque single acting end spring 6 bar | Spring set at 6 bar signal pressure | Article  |
|-------|-----------------|-------------------|-------------------|---------------------|--------------------------------------|------------------------------------|-----------------------------------------|---------------------------------------|-------------------------------------|----------|
|       |                 |                   | mm                | mm                  | Nm                                   | Nm                                 | Nm                                      | Nm                                    |                                     |          |
| SR20  | F03             | F05               | 9                 |                     | 14                                   | 10                                 | 11                                      | 7                                     | S06                                 | 13280477 |
| SR40  | F05             |                   | 11                | 14                  | 26                                   | 17                                 | 28                                      | 17                                    | S14                                 | 13258767 |
| SR80  | F05             | F07               | 14                | 17                  | 51                                   | 37                                 | 47                                      | 30                                    | S14                                 | 12509629 |
| SR130 | F05             | F07               | 14                | 17                  | 80                                   | 64                                 | 64                                      | 45                                    | S14                                 | 13219777 |
| SR200 | F07             | F10               | 14                | 17                  | 113                                  | 84                                 | 107                                     | 73                                    | S14                                 | 13280428 |
| SR300 | F07             | F10               | 17                | 22                  | 190                                  | 126                                | 193                                     | 119                                   | S14                                 | 13395264 |
| SR500 | F10             |                   | 17                | 22                  | 283                                  | 205                                | 268                                     | 177                                   | S14                                 | 13246154 |

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