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)
Shaft height: 30 mm
With mechanical setting indicator: 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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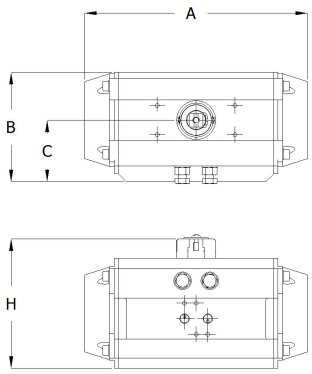

Size table:

Weight
kg
1.3
2.2
3.3
5.9
7.2
12.6
16
23.8
33.9
48.5

Model	Mounting flange	Mounting flange 2	Square dimensions	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	Distance of mounting holes	Article
			mm	Nm	Nm	Nm	Nm			
SR20	F03	F05	11	9.3	13.2	8.4	12.4	S12	80x30	14442154
SR20	F04		9	9.3	13.2	8.4	12.4	S12	80x30	14442155
SR40	F05	F07	14	12.4	23	20.9	31.4	S10	80x30	14442158
SR80	F05	F07	14	27.7	42.5	25.7	40.4	S12	80x30	14442161
SR130	F05	F07	17	57	87.6	53	83.6	S12	80x30	14442164
SR200	F07	F10	17	73.2	114.6	68.6	110	S12	80x30	14442166
SR300	F07	F10	22	134	205	122.4	193.3	S12	80x30	14442168
SR500	F10	F12	27	189.3	285.5	197.4	293.6	S12	80x30	14442170
SR850	F10	F12	27	281	406.4	264	389.4	S12	80x30	14442172
SR1200	F10	F12	27	427.1	617.7	436.8	626.8	S12	130x30	14442175
SR1750	F12		27	609.5	882.4	589	861.8	S12	130x30	14442178

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