

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



Characteristics

Type: 7901
Transmission: Quarter turn
Operating principle: Single acting, spring closing
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 2 (VDI/VDE 3845)

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

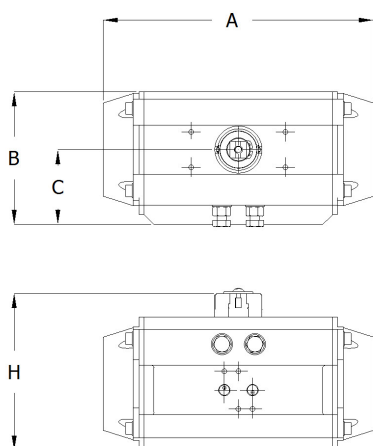
- Safety integrity rating IEC 61508 SIL 2 [SIL 3 in redundant configuration].
- Classified for use in potentially explosive atmospheres as Group II, Category 2, suitable for zones 1, 2, 21 and 22 in accordance with Annex VIII of Directive 2014/34/EU [ATEX].
- In accordance with Pressure Equipment Directive (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
4.3
5.9
7.2
12.6
16
23.8
33.9
48.5
77.8
90.6
136
189
284

Model	Mounting flange	Mounting flange 2	Square dimensions mm	Torque single acting start air 6 bar Nm	Torque single acting end air 6 bar Nm	Torque single acting start spring 6 bar Nm	Torque single acting end spring 6 bar Nm	Spring set at 6 bar signal pressure	Distance of mounting holes	Article
SR20	F04		9	13.2	9.3	12.4	8.4	S12	80x30	14442153
SR20	F03	F05	9	13.2	9.3	12.4	8.4	S12	80x30	14442152
SR20	F03	F05	11	13.2	9.3	12.4	8.4	S12	80x30	14442151
SR40	F04		9	26.5	17.7	26.2	17.4	S10	80x30	14442157
SR40	F05	F07	14	26.5	17.7	26.2	17.4	S10	80x30	14442156
SR80	F05	F07	14	42.5	27.7	40.4	25.7	S12	80x30	14442160
SR100	F05	F07	17	60.3	37.5	62.5	39.7	S12	80x30	14442162
SR130	F05	F07	17	87.6	57	83.6	53	S12	80x30	14442163
SR200	F07	F10	17	114.6	73.2	110	68.6	S12	80x30	14442165
SR300	F07	F10	22	205	134	193.3	122.4	S12	80x30	14442167
SR500	F10	F12	27	285.5	189.3	293.6	197.4	S12	80x30	14442169
SR850	F10	F12	27	406.4	281	389.4	264	S12	80x30	14442171
SR1200	F10	F12	27	617.7	427.1	626.8	436.8	S12	130x30	14442174
SR1200	F10	F14	36	617.7	427.1	626.8	436.8	S12	130x30	14442173
SR1750	F12		27	882.4	609.5	861.8	589	S12	130x30	14442177
SR1750	F14		36	882.4	609.5	861.8	589	S12	130x30	14442176
SR2100	F12		36	1296.9	952.5	1329.6	985.2	S12	130x30	14442180
SR2100	F14		36	1296.9	952.5	1329.6	985.2	S12	130x30	14442179
SR2500	F14		27	1866.4	1322.8	1886.4	1342.8	S12	130x30	14442182
SR2500	F16		36	1866.4	1322.8	1886.4	1342.8	S12	130x30	14442181
SR4000	F16		55	2470.1	1652.2	2476.6	1658.6	S12	130x30	14442183
SR6000	F16	F25	55	3741.2	2586.4	3541.1	2386.3	S12	130x30	14442184
SR9000	F25		55	5555	3815	5522	3782	S12	130x30	14442185

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