



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: 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

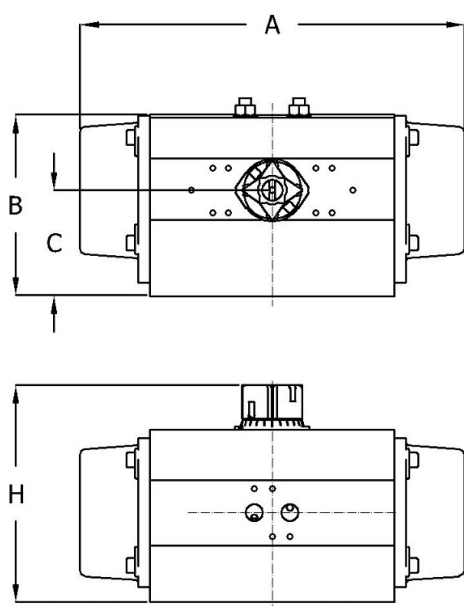
- Safety integrity rating IEC 61508 SIL 2 [SIL 3 in redundant configuration].
- Classified for use in potentially explosive atmospheres as Group II, Category 2, suitable for zones 1, 2, 21 and 22 in accordance with Annex VIII of Directive 2014/34/EU [ATEX].
- In accordance with Pressure Equipment Directive [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].

Size table:

Model	A mm	B mm	C mm	H mm	Weight kg
SR20	163	76	48	96	1.5
SR40	195	91	56	115	2.3
SR80	217	111	66	137	3.6
SR130	258	122	71	147	4.8
SR200	299	136	78	165	7.3
SR300	349	153	86	182	10.8
SR500	397	173	96	199	15.4
SR850	473	192	106	221	22.2
SR1200	560	213	116	249	34.3
SR1750	601	243	131	280	46
SR2100	702	277	148	313	68
SR2500	738	356	178	383	100
SR4000	940	415	213	434	183



Model	Mounting flange	Mounting flange 2	Square dimensions mm	Square dimensions 2 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	Article
SR20	F04		14	11	14	10	11	7	S06	12377318
SR20	F05		14	11	14	10	11	7	S06	12578708
SR20	F03	F05	9	9	14	10	11	7	S06	12406026
SR20	F03	F05	11	11	14	10	11	7	S06	13214142
SR40	F05		14	11	26	17	28	17	S14	12619427
SR40	F04		14	11	26	17	28	17	S14	12377320
SR80	F05	F07	17	14	51	37	47	30	S14	12377321
SR130	F05	F07	17	14	80	64	64	45	S14	12377322
SR200	F07	F10	17	14	113	84	107	73	S14	12377323
SR300	F07	F10	22	17	190	126	193	119	S14	12377324
SR500	F10		22	17	283	205	268	177	S14	12377325
SR850	F10	F12	27	22	488	367	412	271	S14	12377326
SR1200	F10	F14	36	27	698	502	631	400	S14	12377327
SR1200	F12		36	27	698	502	631	400	S14	13389256
SR1750	F12		36	27	877	578	983	631	S14	13247218
SR1750	F14		36	27	877	578	983	631	S14	12377328
SR2100	F16		46	36	1276	825	1347	896	S14	12725690
SR2100	F14		36	27	1276	825	1347	896	S14	13395263
SR2500	F16		46	36	2454	1861	1882	1184	S14	12377329
SR4000	F16	F25	55	46	3312	2142	3145	1769	S14	12377330

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