



ECON® Pneumatic actuator Type: 7902 Aluminium Double acting



Characteristics

- Type:** 7902
- Transmission:** Quarter turn
- Operating principle:** Double acting
- 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

- Double acting output torque up to 6.421 Nm [56.831 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.

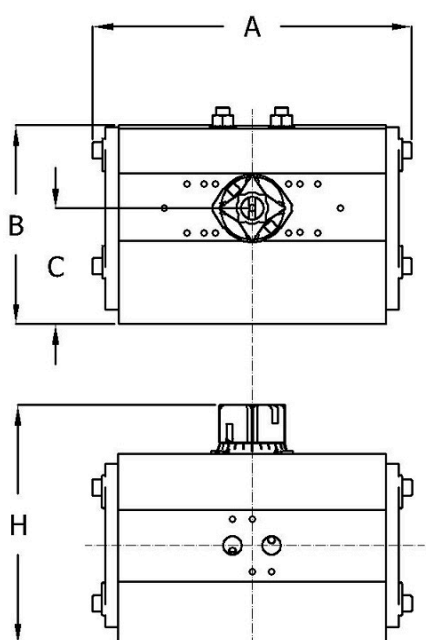
Approval

- 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
DA10	100	56	33	76	0.6
DA20	145	76	48	96	1.4
DA40	158	91	56	115	2.1
DA80	177	111	66	137	3
DA130	196	122	71	147	3.8
DA200	225	136	78	165	5.6
DA300	273	153	86	182	8.5
DA500	304	173	96	199	11.2
DA850	372	192	106	221	16.9
DA1200	439	213	116	249	25.8
DA1200					25.8
DA1750	461	243	131	280	32.5
DA2100	510	277	148	313	50
DA2500	518	356	178	383	70
DA4000	630	415	213	434	130

Model	Mounting flange	Mounting flange 2	Square dimensions mm	Square dimensions 2 mm	Double- acting torque 6 bar Nm	Distance of mounting holes	Distance of mounting holes 2	Square depth mm	Weight kg	Article
DA10	F03		9	9	7	50x30		10	0.6	12377331
DA20	F04		14	11	19.5	80x30		16	1.4	12377332
DA20	F03	F05	9	9	19.5	80x30		14	1.4	12481324
DA20	F03	F05	11	11	19.5	80x30		14	1.4	13389255
DA20	F05		14	11	19.5	80x30		16	1.4	12718529
DA40	F05		14	11	41	80x30		16	2.1	12572241
DA40	F04		14	11	41	80x30		16	2.1	12377333
DA80	F05	F07	17	14	77	80x30		23	3	12377334
DA130	F05	F07	17	14	118	80x30		27	3.8	12377335
DA200	F07	F10	17	14	175	80x30		28	5.6	12377336
DA300	F07	F10	22	17	291	80x30		31	8.5	12377337
DA500	F10		22	17	433	80x30		39	11.2	12377338
DA850	F10	F12	27	22	718	80x30		49	16.9	12377339
DA1200	F10	F14	36	27	1038	80x30	130x30	60	25.8	12377340
DA1200	F12		36	27	1038	80x30	130x30	60	25.8	13537543
DA1750	F14		36	27	1413	80x30	130x30	72	32.5	12377341
DA2100	F16		46	36	2172	80x30	130x30	72	50	12725691
DA2500	F16		46	36	3461	80x30	130x30	68	70	12377342
DA4000	F16	F25	55	46	4816	80x30	130x30	82	130	12377343

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