



ECON® Pneumatic actuator Type: 7902 Aluminium Double acting



Characteristics

Type: 7902
Transmission: Quarter turn
Operating principle: Double acting
Top flange standard: ISO 5211
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

- 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

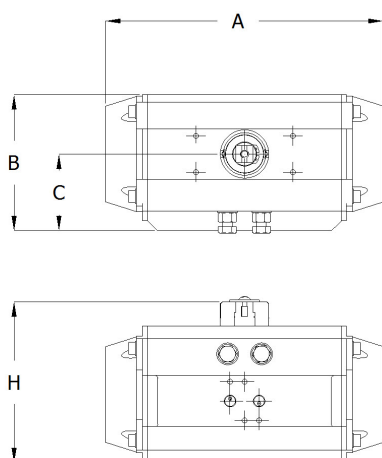
- Safety integrity rating IEC 61508 SIL 2 [SIL 3 in redundant configuration].
- Classified for use in potentially explosive atmospheres as Group II, Category 2, suitable for zones 1, 2, 21 and 22 in accordance with Annex VIII of Directive 2014/34/EU [ATEX].
- In accordance with Pressure Equipment Directive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

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Size table:



Weight kg
0.5
1
1.1
2
3
3.8
5.1
6.1
11
13.8
20.2
28.5
40
52.6
73.6
108
147
221

Model	Mounting flange	Mounting flange 2	Stem shape	Square dimensions mm	Double-acting torque 6 bar Nm	Distance of mounting holes	Square depth mm	Air supply connection	Weight kg	Article
DA10	F03		Double square	9	7.1	50x30	13	1/8" (6) internal thread [BSPP]	0.5	14442128
DA15	F04		Double square	9	7.1	80x30	13	1/8" (6) internal thread [BSPP]	1	14442129
DA20	F04		Double square	9	21.6	80x30	14	1/4" (8) internal thread [BSPP]	0.5	14442131
DA20	F03	F05	Double square	11	21.6	80x30	14	1/4" (8) internal thread [BSPP]	1.1	14442130
DA40	F05	F07	Double square	14	43.9	80x30	18	1/4" (8) internal thread [BSPP]	2	14442133
DA80	F05	F07	Double square	14	68.2	80x30	20	1/4" (8) internal thread [BSPP]	3	14442134
DA100	F05	F07	Double square	17	100.1	80x30	23	1/4" (8) internal thread [BSPP]	3.8	14442135
DA130	F05	F07	Double square	17	140.6	80x30	32	1/4" (8) internal thread [BSPP]	5.1	14442136
DA200	F07	F10	Double square	22	183.3	80x30	25	1/4" (8) internal thread [BSPP]	6.1	14442137
DA300	F07	F10	Double square	22	327.4	80x30	35	1/4" (8) internal thread [BSPP]	11	14442138

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Model	Mounting flange	Mounting flange 2	Stem shape	Square dimensions mm	Double-acting torque 6 bar Nm	Distance of mounting holes	Square depth mm	Air supply connection	Weight kg	Article
DA500	F10	F12	Double square	27	483	80x30	35	1/4" (8) internal thread [BSPP]	13.8	14442139
DA850	F10	F12	Double square	27	670.4	80x30	40	1/4" (8) internal thread [BSPP]	20.2	14442140
DA1200	F10	F14	Double square	36	1053.9	130x30	45	1/4" (8) internal thread [BSPP]	28.5	14442141
DA1200	F12		Double square	27	1053.9	130x30	45	1/4" (8) internal thread [BSPP]	28.5	14442142
DA1750	F14		Double square	36	1471.3	130x30	45	1/4" (8) internal thread [BSPP]	40	14442143
DA1750	F12		Double square	27	1471.3	80x30	45	1/4" (8) internal thread [BSPP]	40	14442144
DA2100	F16		Double square	46	2282	130x30	55	1/2" (12)	52.6	14442145
DA2100	F14		Double square	36	2282	130x30	55	1/2" (12)	52.6	14442146
DA2500	F16		Double square	46	3209	130x30	55	1/2" (12)	736	14442147
DA4000	F16		Double square	55	4128.8	130x30	70	1/2" (12)	108	14442148
DA6000	F16	F25	Double square	55	6127.5	130x30	70	1/2" (12)	147	14442149
DA9000	F25		Double square	55	9337.1	130x30	70	1/2" (12)	221	14442150

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