DATA SHEET

con35

Linear In-line Actuator

Standard Specifications

Motor/Gear

12/24VDC power supply, permanent magnet motor

12/2 112 0 power supply, pointaion magnet motor							
Gear ratio		5	14	19	27	51	71
Maximum load	[N]	120	400	600	900	1600	2200
Speed at maximum load	[mm/s]	33	16	12	7.5	4	3
Max. static load/ Self locking force	PA brackets: 2000N Alu/AISI: 5400N Depending on stroke length for push-applications						
Temperature	■ Operation: -5°C to +70°C ■ Storage: -40°C to +70°C						
Relative humidity	20% to 70%, atmospheric pressure = 1 atm						
Protection class	IP66						
Cable specification	1m, 2X0.65mm ² (AWG19), $Ø = 4.8$ mm, black, Molex Mini-Fit Jr. 6 pin						
Bending Radius	6x cable diameter						
Materials	Motor and actuator tube are powder coated steel Piston rod is aluminum Front and rear brackets are PA						
Duty cycle	Max. 10% or 2 minutes in use followed by 18 minutes rest						
Color	Black (RAL 9005)						
Stroke length/weight							

50 100 150 200 250 300 350 400 500 750 Stroke [mm] Weight [kg] 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.8 2.3 1.6

Max. load limited to 1000 N for stroke lengths \geq 500 mm

Actual weight may vary depending on model and options selected

Options

- Stainless steel versions (AISI 304 or 316)
- Brackets in aluminum or stainless steel
- Brackets with clevis
- Brackets with spherical bearings
- Piston rod available in black
- Hall sensors for positioning and/or synchronization
- IP68/IP69K (gear ratio 1:5 not available)
- Low noise version
- ATEX zone 22, group II 3 D compliant
- Certified according to EN/UL/CSA60.601 (24VDC only).

Eskimo version (-40°C to +70°C)

- excellent electric actuators

Other cable lengths (1-9m)

On Request

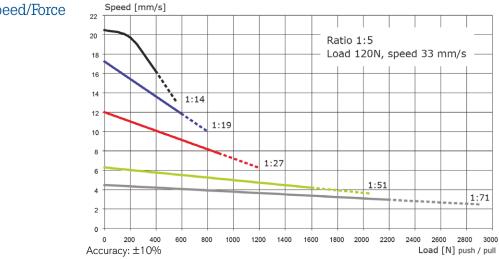
- Available in all RAL colors
- Customized stroke lengths available
- Customized front and rear brackets
- Customized built-in dimensions

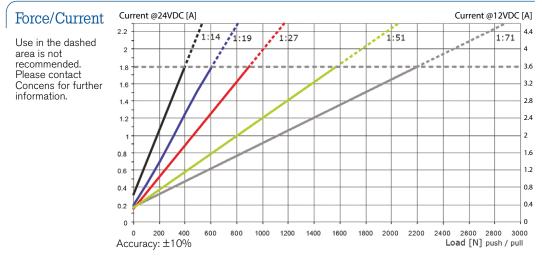
Contact Concens for any special requirements



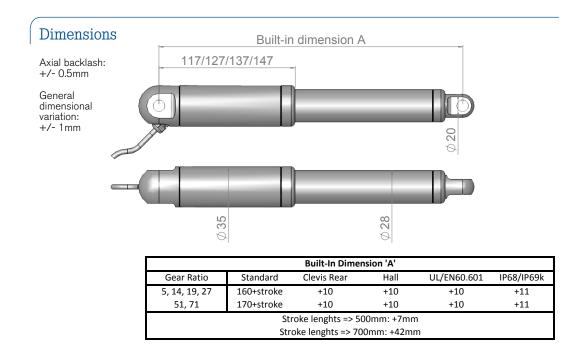


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Recommended max. current: 12VDC = 3.6A and 24VDC = 1.8A





Brackets



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excellent electric actuators

Polyamide (PA) Max. static load 2000N Max. load 900N (gear ratio 1:27)



PA with clevis Max. static load 2000N Max. load 900N (gear ratio 1:27)



Alu Max. static load 5400N



Alu with clevis Max. static load 5400N



Stainless steel

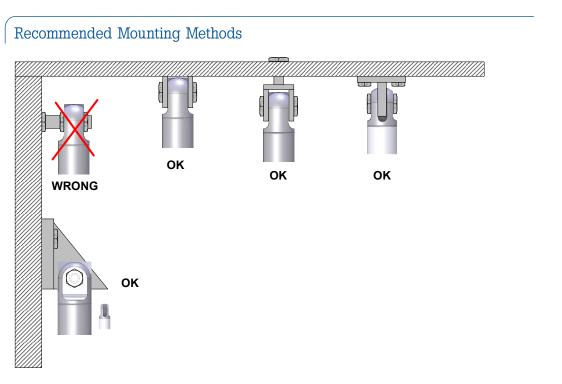
Stainless steel with clevis Max. static load 5400N Max. static load 5400N



Alu with spherical bearings Max. static load 5400N

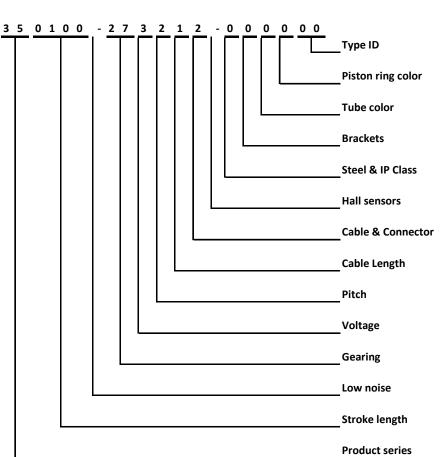


Alu / Stainless steel IP69K Max. static load 5400N



- Do not clamp actuators on tubing
- Always keep both brackets mounted in the same orientation and ensure to flush mount actuator
- Brackets must always be able to rotate on axels in mountings





Con35 Item Number Combination

Please Note

- Power supply without over-current protection can cause serious damage to the actuator at mechanical end-stop or when actuator is overloaded in another way
- Radial forces might have an adverse affect on the performance or lead to damage of the actuator
- Keep piston tube clean
- Longer cable lengths may cause voltage drop which affects the performance of the actuator
- For medical applications maximum ambient temperature is 48°C
- Function of the actuator is subject to the settings of the control box
- Concens does not have any responsibility for possible errors in this data sheet
- Specifications are subject to change without notice
- The dust and water sealing of IP68/IP69K actuators might affect their performance
- All specifications are for 25 °C ambient low temperature might affect performance

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