

con60

Linear In-line Actuator

concens 
 - excellent electric actuators


Standard Specifications

Motor/Gear

24VDC power supply, permanent magnet motor

Gear ratio		19	43	66	81	100
Maximum load	[N]	1900	4300	6600	8100	10000
Speed at maximum load	[mm/s]	26	12	8	6	5

**Max. static load/
Self locking force**Alu/AISI: 16800N
Depending on stroke length for push-applications**Temperature**

■ Operation: -5°C to +50°C ■ Storage: -40°C to +70°C

Relative humidity

20% to 70%, atmospheric pressure = 1 atm

Protection class

IP66

Cable specification1m, 2X1.3mm² (AWG16), Ø=6.4mm, black, Molex Mini-Fit Jr. 6 pin**Bending Radius**

6x cable diameter

MaterialsMotor and actuator tube are powder coated steel
Piston rod is stainless steel
Front and rear brackets are aluminium**Duty cycle**

Max. 10% or 2 minutes in use followed by 18 minutes rest

Color

Black (RAL9005)

Stroke length/weight

Stroke	[mm]	50	100	150	200	250	300	350	400	450	500	750
Weight	[kg]	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.6

Max. load limited to 5000N for stroke length ≥500mm
Actual weight may vary depending on model and specifications

Options

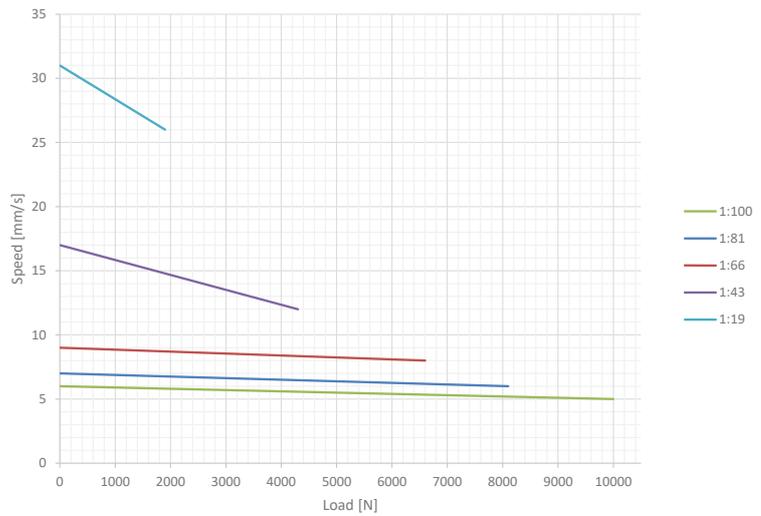
- Stainless steel versions (AISI 316)
- Brackets in stainless steel
- Brackets with clevis
- Brackets with spherical bearings
- Hall sensors for positioning and/or synchronization
- Harsh Environment version
- Low noise version
- Spline and emergency lowering
- ATEX zone22, group II 3 D compliant
- Eskimo version (-40°C to +50°C)
- Other cable lengths (1-9m)

On Request

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

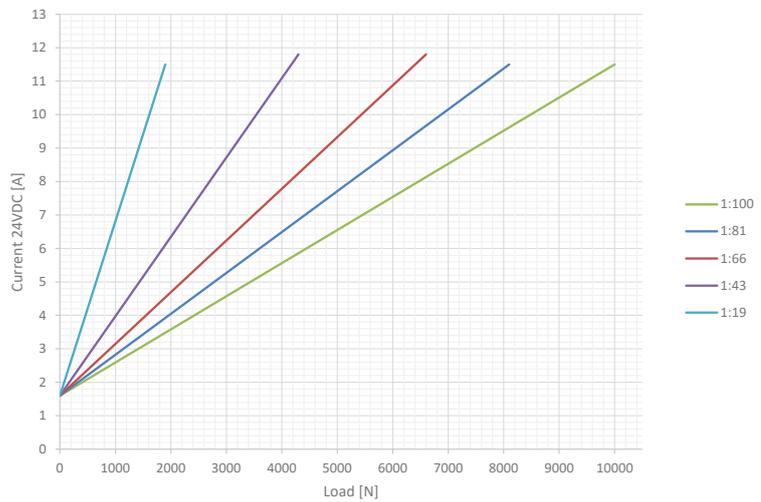
**Contact Concens for any
special requirements**

Speed/Force



Accuracy ±10%

Force/Current

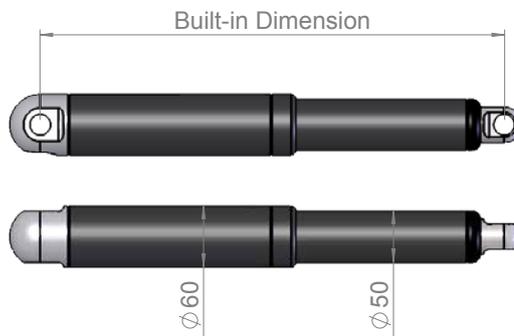


Recommended max. current: 24VDC = 10A. Accuracy ±10%

Dimensions

Axial backlash:
+/- 0.5mm

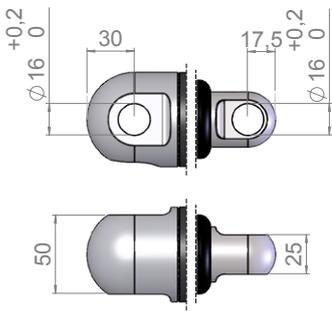
General
dimensional
variation:
+/- 1mm



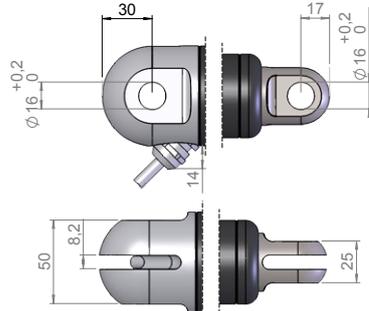
Built-In Dimension 'A'						
Gear Ratio	Standard	Clevis Rear	Hall	UL/EN60.601	Harsh Environment	Emergency lowering/spline
All ratios	358+stroke	-	+15	+15	+25	+31/+10
Stroke length ≥500mm: +25mm						

con60

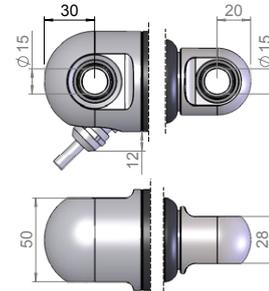
Standard Brackets



Alu / AISI316
Max. static load
16800N

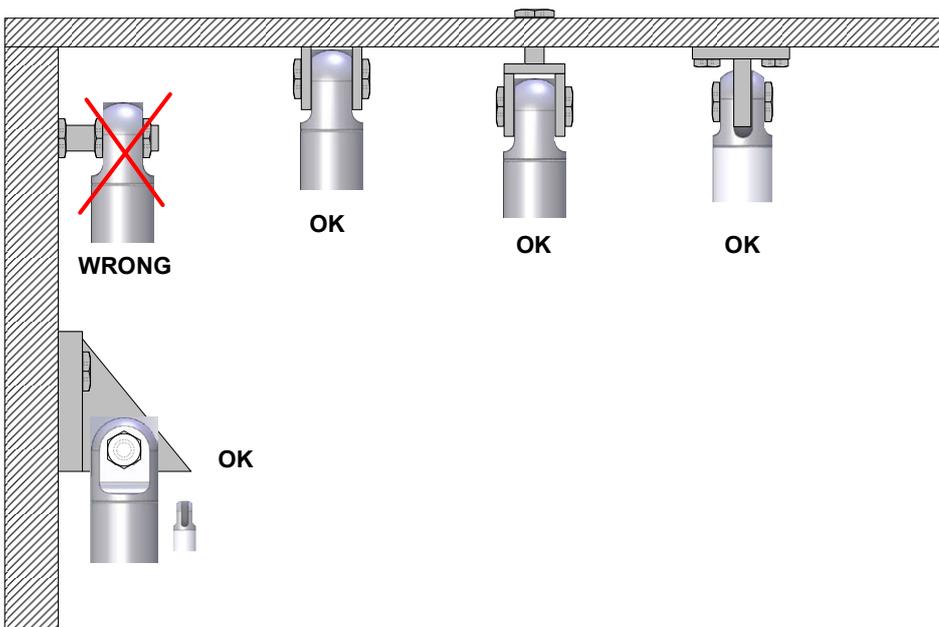


Alu/AISI316 with clevis
Max. static load 16800N



Alu/AISI316 with spherical bearings
Max. static load 11000N

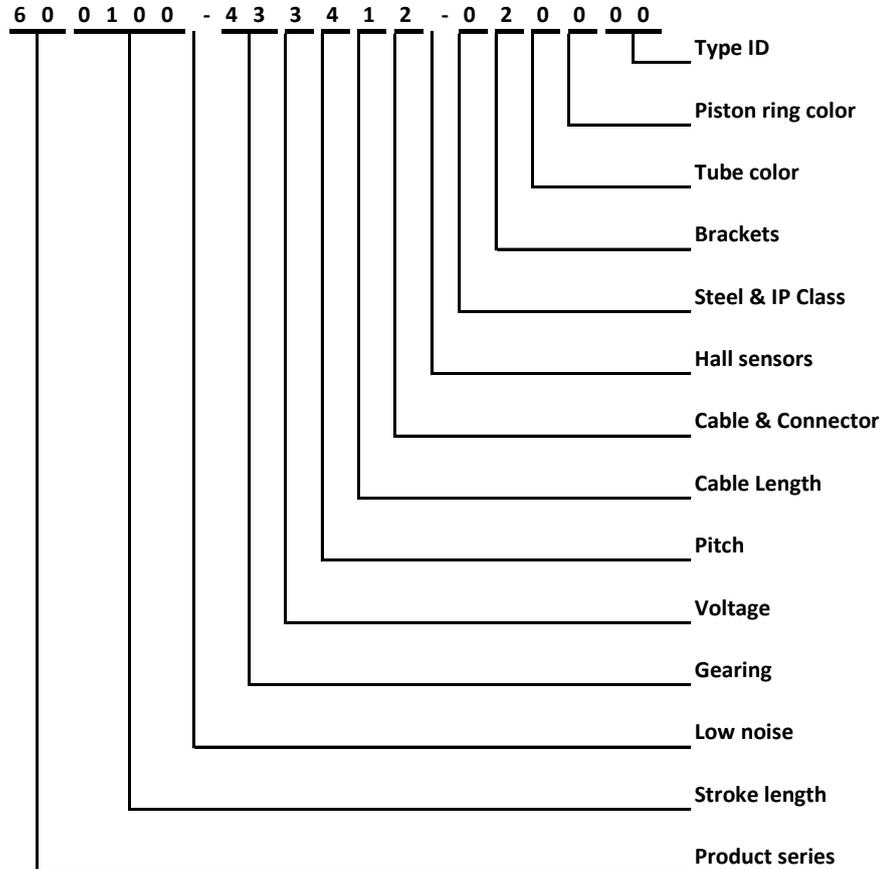
Recommended Mounting Methods



- 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

con60

Con60 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
- Concents 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 Harsh Environment actuators might affect their performance
- All specifications are for 25 °C ambient – low temperature might affect performance
- Depending on load and application, nominal and actual stroke length may differ due to internal disc springs not being fully compressed.