

## Standard Specifications

#### Motor/Gear

12/24VDC power supply, permanent magnet motor

Gear ratio		4	14	17	24	49	84
Maximum load	[N]	500	1750	2200	3100	4500	4500
Speed at maximum load	[mm/s]	70	20	17	12	6	4

Max. static load/ Self locking force PA brackets: 4700N Alu/AISI: 16800N 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 = 1atm

**Protection class** 

Cable specification

1m, 2X1.3mm<sup>2</sup> (AWG16), Ø=6.4mm, black, Molex Mini-Fit Jr. 6 pin

**Bending Radius** 

6x cable diameter

**Materials** 

Motor and actuator tube are powder coated steel

Piston rod is stainless steel Front and rear brackets are PA

**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	500	750
Weight	[kg]	2.1	2.3	2.6	2.8	3.1	3.3	3.6	3.8	4.3	5.6

Max. load limited to 2000 N for stroke lengths ≥ 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
- Hall sensors for positioning and/or synchronization
- IP68/IP69K (gear ratio 1:4 not available)
- Low noise version
- Spline and emergency lowering
- Atex zone 22, group II 3 D compliant
- Certified according to EN/UL/CSA60.601 (24VDC only)

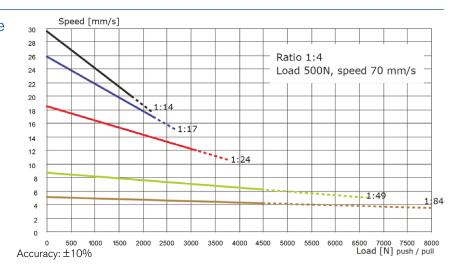
- Eskimo version (-40°C to +70°C)
- Other cable lengths (1-9m)

#### On Reouest

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

**Contact Concens for any** special requirements

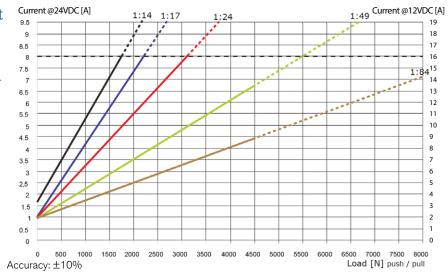
# Speed/Force



### Force/Current

Use in the dashed area is not recommended. Please contact Concens for further information.

Max. 7A when used in connection with C3 system.

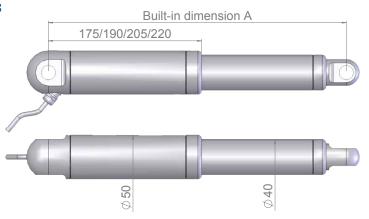


Recommended max. current: 12VDC = 16A and 24VDC = 8A

## Dimensions

Axial backlash: +/- 0.5mm

General dimensional variation: +/- 1 mm



Built-In Dimension 'A'								
Gear Ratio	Standard	Clevis Rear	Hall	UL/EN60.601	IP68/IP69k			
4, 14, 17, 24	240+stroke	-	+15	+15	+14			
49, 84	255+stroke	-	+15	+15	+14			





# Standard Brackets



#### Polyamide (PA)

Max. static load 2000N Max. load 3100N (gear ratio 1:24)



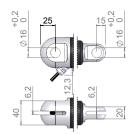
#### PA with clevis

Max. static load 2000N Max. load 3100N (gear ratio 1:24)



#### Alu

Max. static load 16800N



#### Alu with clevis

Max. static load 16800N



#### Stainless steel

Max. static load 16800N



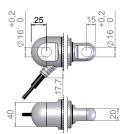
# Stainless steel with clevis

Max. static load 16800N



# Alu with spherical bearings

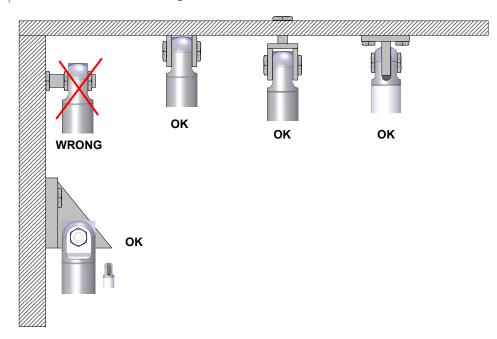
Max. static load 11000N



# Alu / Stainless steel IP69K

Max. static load 5400N

# Recommended Mounting Methods

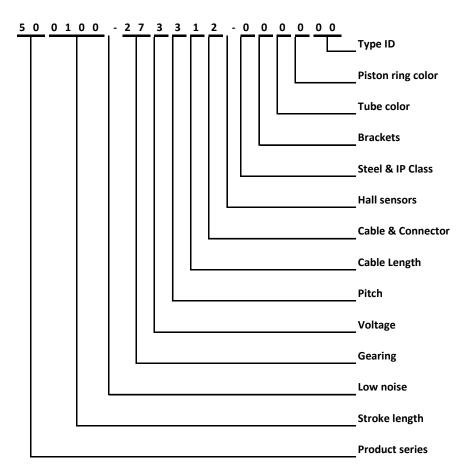




- Do not clamp actuators on tubing
- Always keep both brackets mounted in the same orientation and ensure to flush mount actuator
- Brackets must always be able to rotate on axels in mountings



### Con50 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

Denmark

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