

Standard Specifications (Specifications for non-standard actuators, eg. HE-version, may vary)

Motor/Gear

24 VDC permanent magnet motor (max. current for ratio 4-14-17-24 is 8 A, ratio 49 is 7 A, ratio 84 is 4,5 A, absolute max. voltage is 28 VDC)

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

12 VDC permanent magnet motor (max. current for ratio 4-14-17-24 is 16 A, ratio 49 is 14 A, ratio 84 is 9 A, absolute max. voltage is 14 VDC)

Gear ratio		14	17	24	49	84
Maximum load	[N]	1400	1700	2400	4500	4500
Speed at maximum load	[mm/s]	14	10	6	3	3.5

Max. static load/ Self locking force PA brackets: 4700 N Alu/Stainless steel: 16800 N Depending on stroke length for push-applications Max. Load limited to 2000 N for stroke lengths > 400 mm ■ Operation: - 20 °C to + 70 °C ■ Storage: - 40 °C to + 70 °C

Protection class

Cable specification

1 m, 2 x 1.3 mm² (AWG16), \emptyset = 6.4 mm, black, Molex Mini-Fit Jr. 6 pin

Bending Radius 6 x cable diameter

Materials

Temperature

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 (RAL 9005)

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

Actual weight may vary depending on model and options selected

Options

- Stainless steel versions (AISI 316)
- Brackets in aluminum or stainless steel
- Brackets with clevis
- Brackets with spherical bearings
- Hall sensors for positioning and/or synchronization
- HE (Harsh Environment) version (gear ratio 1:4 not available) Tested according to IP68 and IP69 and passed the criteria for a depth of one meter for one hour. Test reports are available on request.
- Low noise version
- Spline and emergency lowering
- Other cable lengths (1 9 m)

 Version certified according to IEC60601-1, ANSI/ AAMI/ES60601-1, CAN/CSA-22.2 No60601-1 available (24 VDC only)

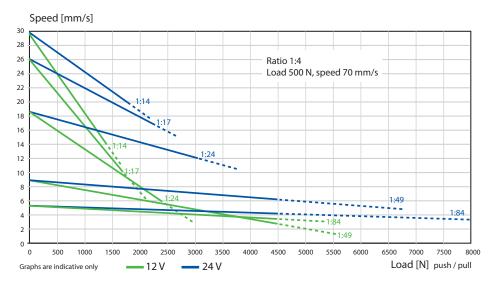
On Request

- Available in all RAL colors
- Other stroke lengths available
- Customised front and rear brackets
- Customised build-in-dimensions

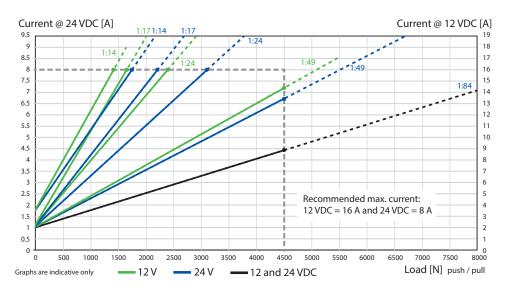
Contact Concens for any special requirements



Speed/Force



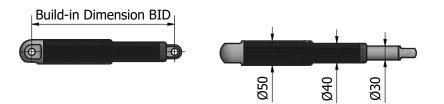
Force/Current Use in the dashed area is not recommended. Please contact Concens for further information.



Dimensions

Axial backlash: +/- 0.5 mm

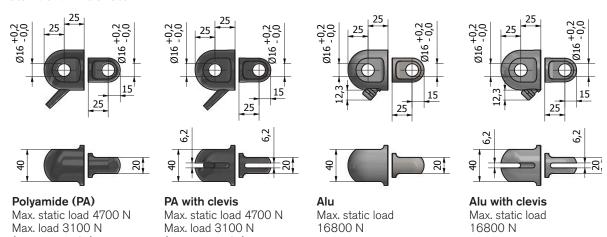
General dimensional variation: +/- 1 mm

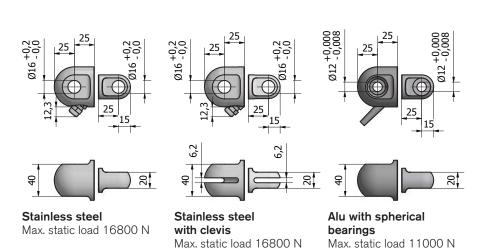


Build-in Dimension BID								
Gear Ratio	Standard	Clevis Rear	Hall	IEC/ANSI/AAMI/ ES/CAN/CSA- 22.2 No 60601-1	Harsh Enviroment	Emergency lowering/spline		
4, 14, 17, 24	240 mm + stroke	-	+ 15 mm	+ 15 mm	+ 14 mm	+ 23 mm/+ 6 mm		
49, 84	255 mm + stroke	-	+ 15 mm	+ 15 mm	+ 14 mm			
Stroke lengths > 750 mm + 100 mm (On request)								

Standard Brackets

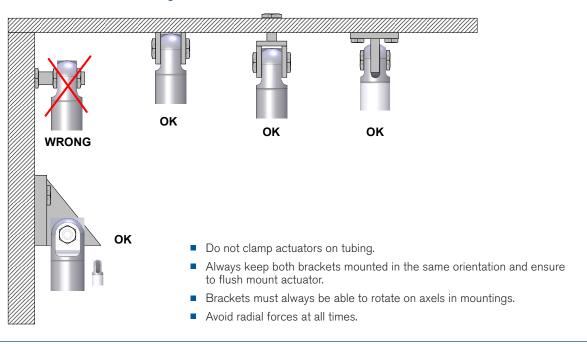
(gear ratio 1:24)





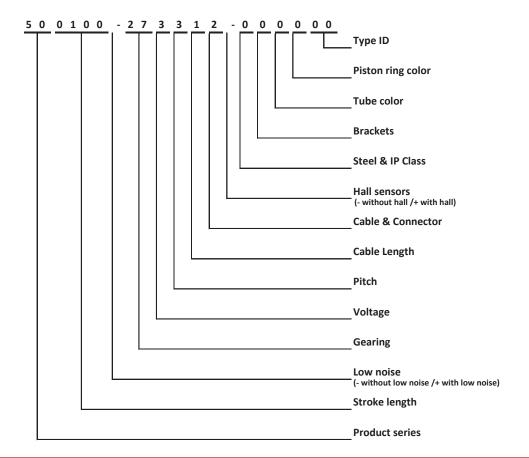
(gear ratio 1:24)

Recommended Mounting Methods





con50 Item Number Combination



Recommendations and warnings

- Never expose the actuator to hammer strike during installation or in other situations.
- Retrofitted bushings should be pressed into the bracket-borings. No hammering.
- 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.
- Keep piston tube clean.
- Longer cable lengths may cause voltage drop which affects the performance of the actuator.
- For medical applications (IEC60601-1, ANSI/AAMI/ES60601-1, CAN/CSA-C22.2 No60601-1):

 Operating temperature + 5 °C to + 48 °C, , Relative humidity 20 % 70 % atmospheric pressure = 1atm.

 Connect to medically approved supply source only and according to guidelines provided with the source.
- Function of the actuator is subject to the settings of the controller. If using your own controller please contact Concens.
- The dust and water sealing of HE (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.
- The combination of gearing and stroke can cause limitations in the use of "End limit FW" when using the C2-30 control. See more in the datasheet for C2-30.



IFC 60417-5172

Class II equipment

ISO 7010-M002 Refer to instruction manual/booklet

Disclaimer

- Concens products are continuously developed, built and tested for highest requirements and reliability but it is always the
 responsibility of the customer to validate and test the suitability of our products in a given application and environment.
 Concens products must not be used in safety critical applications.
- We do our utmost to provide accurate and up-to-date information at all times. In spite of that, Concens cannot be held responsible for any errors in the documentation. Specifications are subject to change without prior notice.

For more information, please visit our website at www.concens.com

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