

Under Water Actuators UW100

con35/icon35 & con50/icon50 for submerged use

The Concens UW100-series of actuators are developed and tested for under water applications down to 100 m. The actuators come in stainless steel (AISI316) and have extra sealing to protect against the high water pressure.

con35/icon35

24 VDC permanent magnet motor, 1,8 ADC (2,5 ADC for icon). Absolute maximum voltage is 28 VDC. Maximum load is specified at 100-meter water pressure. Higher forces can be expected at lower pressure.

Gear ratio		19	27	51	71
Maximum load	[N]	300	500	1300	1900
Speed at maximum load	[mm/s]	12	7,5	4	3

12 VDC permanent magnet motor, 3,6 ADC (4 ADC for icon). Absolute maximum voltage is 14 VDC. Maximum load is specified at 100-meter water pressure. Higher forces can be expected at lower pressure.

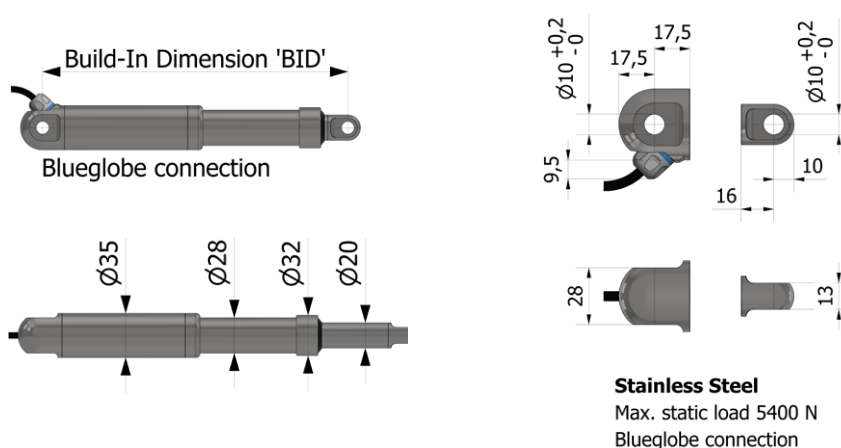
Gear ratio		19	27	51	71
Maximum load	[N]	300	500	1100	1900
Speed at maximum load	[mm/s]	9	7,5	3,5	2,5

Stroke length: Stroke length is limited to maximum 400 mm.

Dimensions con35/icon35

Axial backlash: +/- 0.5 mm General dimensional variation: +/- 1 mm

Build-in Dimension 'BID'	
Gear Ratio	Standard
19, 27	201 + stroke
51, 71	211 + stroke



con50/icon50

24 VDC permanent magnet motor. Maximum current for ratio 14-24 is 8A, ratio 49 is 7A and ratio 84 is 4,5A. Absolute max. voltage is 28 VDC. Maximum load is specified at 100-meter water pressure. Higher forces can be expected at lower pressure.

Gear ratio		14	17	24	49	84
Maximum load	[N]	1050	1500	2400	3800	4500
Speed at maximum load	[mm/s]	20	17	12	6	4

12 VDC permanent magnet motor. Maximum current for ratio 14-24 is 16A, ratio 49 is 14A and ratio 84 is 9A. Absolute maximum voltage is 14 VDC. Maximum load is specified at 100-meter water pressure. Higher forces can be expected at lower pressure.

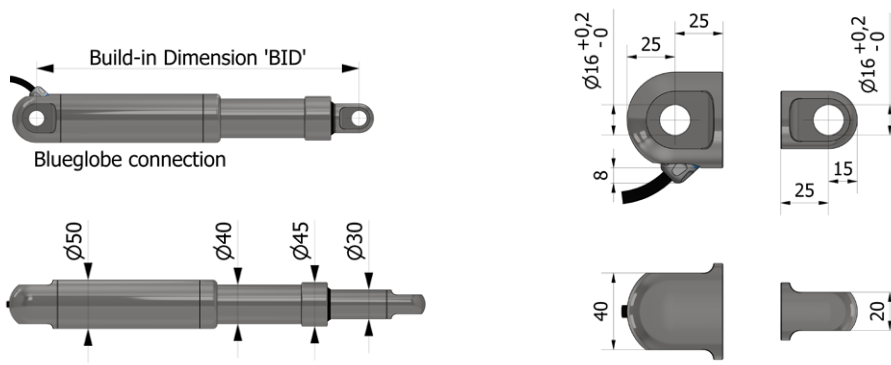
Gear ratio		14	17	24	49	84
Maximum load	[N]	750	1200	1700	3800	4500
Speed at maximum load	[mm/s]	14	10	6	3	3,5

Stroke length: Stroke length is limited to maximum 400 mm.

Dimensions con50/icon50

Axial backlash: +/- 0.5 mm General dimensional variation: +/- 1 mm

Build-in Dimension 'BID'	
Gear Ratio	Standard
4, 17, 24	291 + stroke
49, 84	306 + stroke



Stainless Steel
Max. static load 16800 N

General requirements:

- Hall-option is mandatory for con-actuators.
- The water tightness covers the actuator including cable. Connector open ends are not water tight.



Blueglobe gland

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.
- Function of the actuator is subject to the settings of the controller. If using your own controller please contact Concents.
- 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.
- The actuator is not rotationally secured.

Concents 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. Concents 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, Concents 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.concents.com

