

# easyE<sup>®</sup> 50

## Electric Linear Actuator

**Bansbach**  
easylift<sup>®</sup>

**Data** Motor/Gear 12/24 VDC power supply, permanent magnet motor

Gear Ratio	C*	D	E	F	G	H
Force 24V (dyn. push and pull) [N]	500	1750	2200	3100	4500	4500
Speed at maximum load [mm/s]	70	20	17	12	6	4
Force 12V (dyn. push and pull) [N]	-	1400	1700	2400	4500	4500
Speed at maximum load [mm/s]	-	14	10	6	3	3.5
Current at maximum load: <b>12VDC</b> (max 14VDC) = 16A (ratio C-F), 14A (ratio G), 9A (ratio H), <b>24VDC</b> (max 28VDC) = 8A (ratio C-F), 7A (ratio G), 4.5A (ratio H)						

**Max. static load\*/Self-locking force**

\*Depending on stroke length for push-applications

**Temperature**

**Protection class**

**Cable specification**

**Materials**

**Duty cycle**

**Color**

**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

Type easyE 50 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 316)
- Front and rear brackets in aluminum or stainless steel
- Front and rear brackets with clevis
- Brackets with spherical bearings
- Hall sensors for positioning and/or synchronization
- Other cable lengths (1-9m)
- Connector types (Molex 5557/DIN 8 pole/Phono/Others)
- Low noise
- 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 available upon request.
- Version certified according to IEC60601-1, ANSI/AAMI/ES60601-1, CAN/CSA-22.2 No60601-1 available (24 VDC only)
- ATEX zone 22, group II 3 D approval
- Tested according to EN/UL/CSA60.601

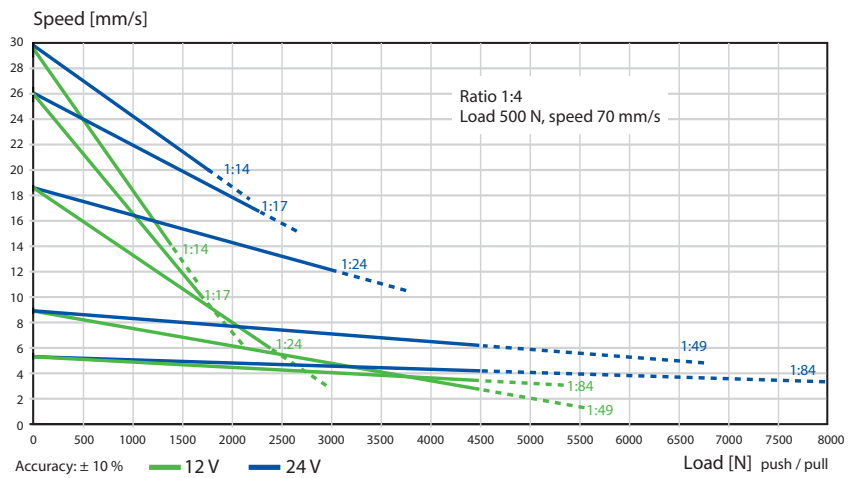
**On request:**

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

**Contact Bansbach for any special requirements**

\* The dust and water sealing of IP68/69K actuators might affect their performance in lower gear ratios

## Speed/force

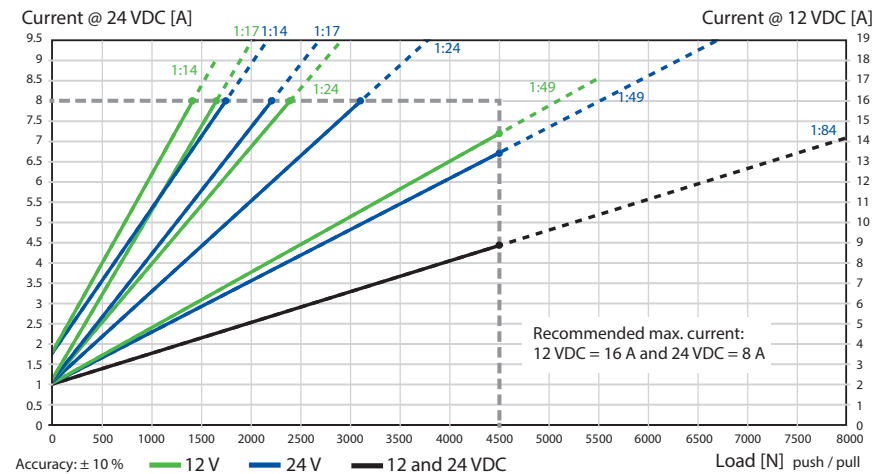


## Force/current

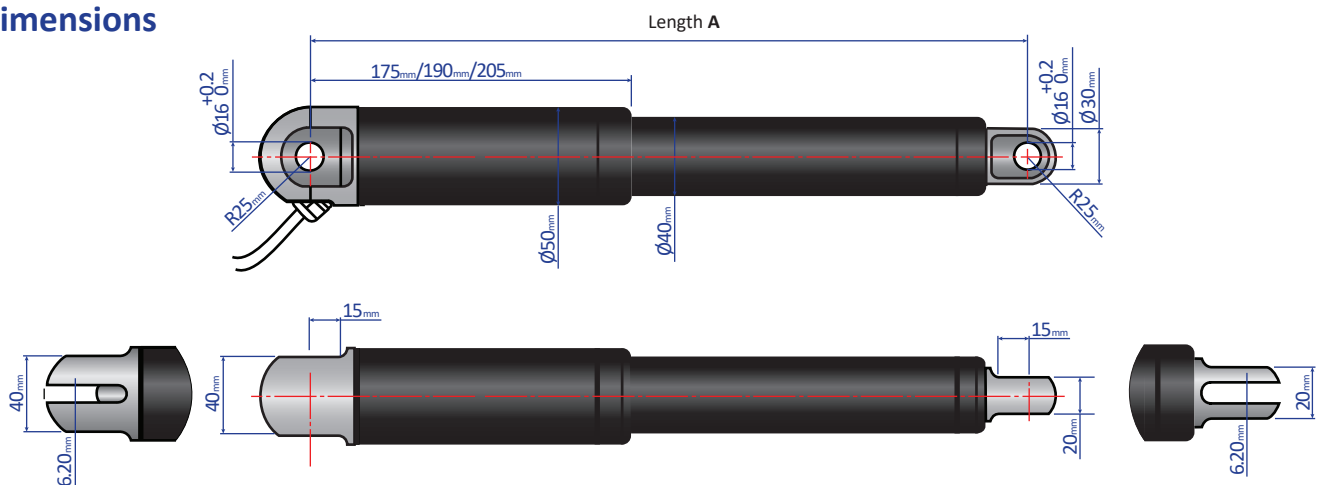
Use in the dashed area is not recommended. Please contact Bansbach for further information.

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

1) At ambient temperature  $T=25^{\circ}\text{C}$



## Dimensions



Axial backlash:  $\pm 0.5$  mm  
General dimensional variation:  $\pm 1$  mm

Build length A [mm]	Standard	Hall	IP68 / 69K
easyE 50 (gearing C, D, E, F)	240+s*	+15	+14
easyE 50 (gearing G, H)	255+s*	+15	+14

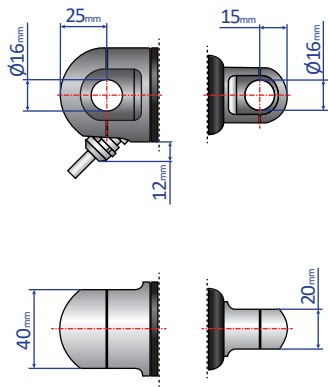
\*s = stroke length

stroke length  $\leq 800$  mm: + 100 mm

## Precautions

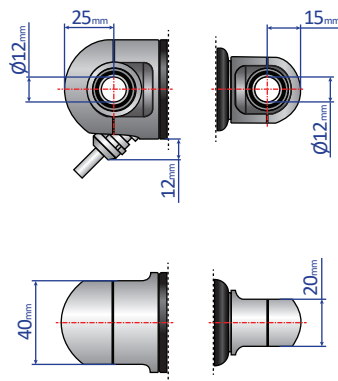
Power supply without over current-relay or other current switch-off devices can cause serious damage to the actuator at mechanical end-stop stop or if the actuator is overloaded in another way. Radial forces might have an adverse effect of the performance of, or lead to damage to the actuator.

## Standard Brackets



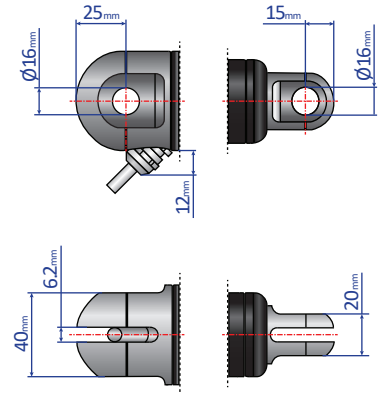
**Alu / AISI316**  
Max. static load 16800N

**Hinge Eye**  
A2 – Aluminum  
B2- Plastic (PA)  
C2 – Stainless Steel



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

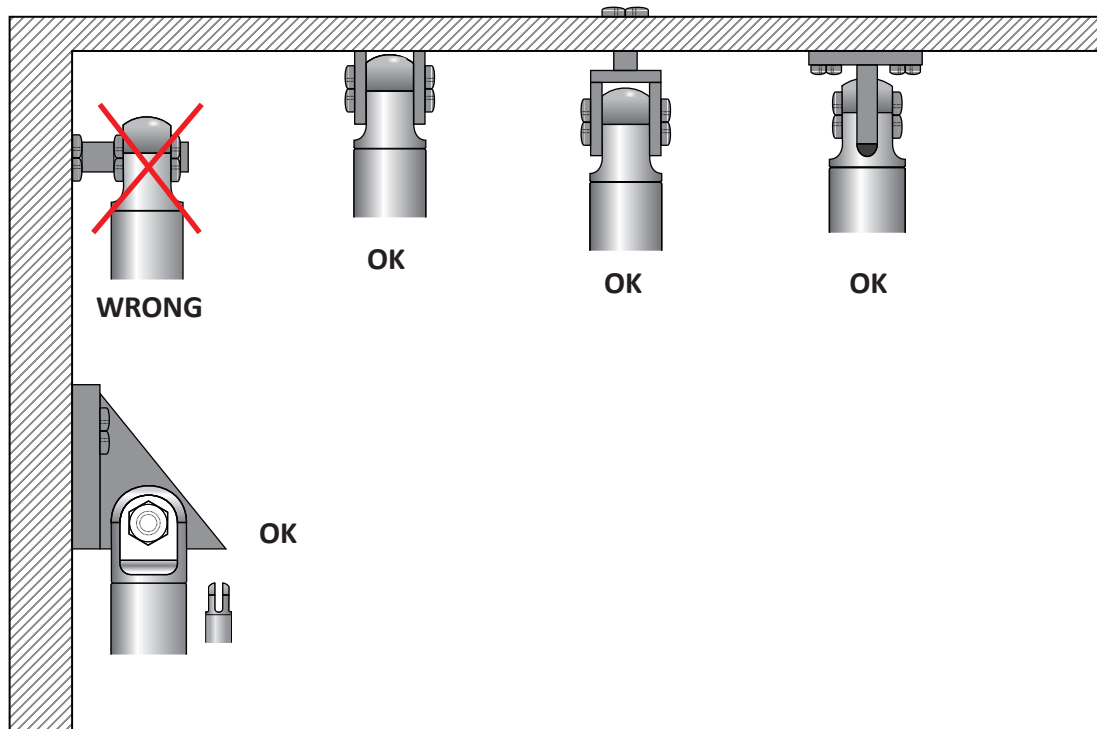
**Hinge Eye with Spherical Bearings**  
E2 – Aluminum



**Alu / AISI316 with clevis**  
Max. static load 16800N

**Clevis**  
F2 – Aluminum  
G2- Plastic (PA)  
H2 – Stainless Steel

## 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

easyE® 50

## easyE® 50 Item Number Combination

**EEL-50 - 100 - F 24 A2 N1 - 0 1 1 M**

Connector (M = Molex / 0 = None)

Cable length (1-9m)

Hall Sensor (1 = YES / 0 = NO)

Low noise (1 = YES / 0 = NO)

Material

(00 = Powder Coat Steel / 01 = Steel, Harsh Environment)  
(N0 = Stainless Steel / N1 = Stainless, Harsh Environment)

End Fittings (see fittings chart)

Voltage (12V and 24V)

Gear (see gear chart)

Stroke (mm)

Product Family

### 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
- Bansbach 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 their performance
- Depending on load and application, nominal and actual stroke length may differ due to internal disc springs not being fully compressed

### Disclaimer

- Modern production processes and a certified quality system, guarantee that Bansbach products are of the highest quality standard. It is always the responsibility of the customer to examine the appropriateness of the application and environment for each product.
- Bansbach is not responsible for any errors found within this document. Information is subject to change without notice.

For more information, please visit our website at: [www.bansbach.com](http://www.bansbach.com)

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