

Linear actuator

Runner

Benefits

- High push/pull load
- Compact
- Back-up nut as standard
- High safety factor
- Silent operation

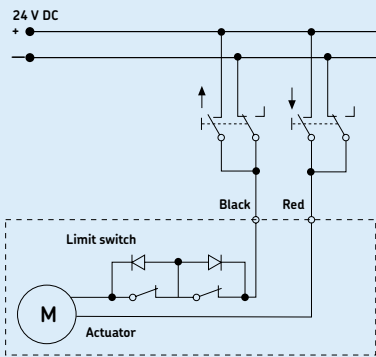


Suitable control units and accessories

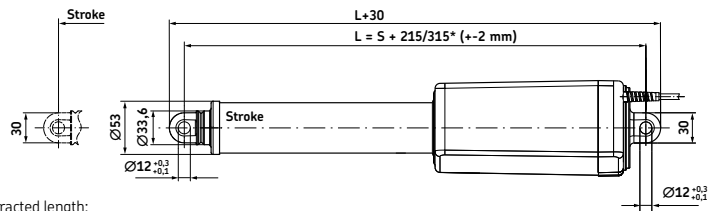
| Control units | | SCU 1 | SCU 5 | SCU 9 | VCU 5 | VCU 8 | VCU 9 | BCU 5 | BCU 8 |
|------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|
| RU20, RU21, RU22 | | ● | ● | ● | ● | ● | ● | ● | ● |
| RU23, RU24, RU25 | | ● | ● | ● | ● | ● | ● | ● | ● |
| EHA 3 | | ● | ● | ● | ● | ● | ● | ● | ● |
| STJ | | ● | ● | ● | ● | ● | ● | ● | ● |
| STE | | ● | ● | ● | ● | ● | ● | ● | ● |

Hand switch
 Foot switch
 Desk switch

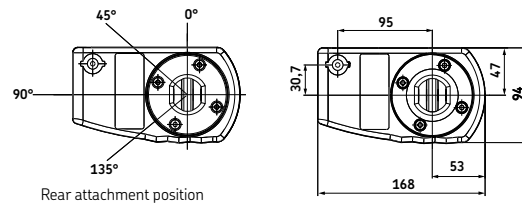
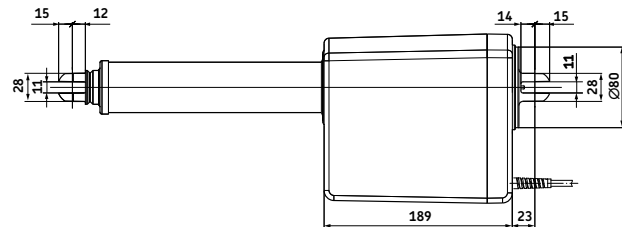
Connecting diagram



Dimensional drawing



* Retracted length:
 up to 500 mm stroke: stroke +215 mm (plus options)
 from 500 mm stroke: stroke +315 mm (plus options)



Legend:
 S = stroke
 L = retracted length

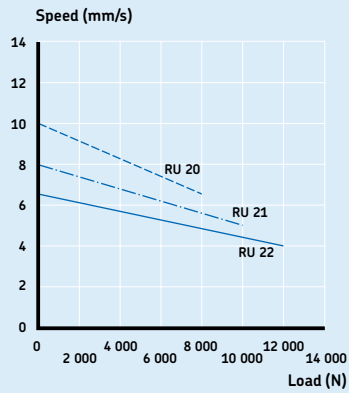
Technical data

| | Unit | RU20 | RU21 | RU 22 | RU23 | RU24 | RU25 |
|------------------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Rated push load | N | 8 000 | 10 000 | 12 000 ¹⁾ | 8 000 | 10 000 | 12 000 ¹⁾ |
| Rated pull load | N | 8 000 | 8 000 | 8 000 | 8 000 | 8 000 | 8 000 |
| Speed (full load to no load) | mm/s | 7 to 10 | 5 to 8 | 4 to 7 | 8 to 15 | 6 to 12 | 5 to 9 |
| Stroke | mm | 100 to 700 | 100 to 700 | 100 to 700 | 100 to 700 | 100 to 700 | 100 to 700 |
| Retracted length | mm | S+215/315 ²⁾ | S+215/315 ²⁾ | S+215/315 ²⁾ | S+215/315 ²⁾ | S+215/315 ²⁾ | S+215/315 ²⁾ |
| Voltage | V DC | 24 | 24 | 24 | 24 | 24 | 24 |
| Power consumption | W | N/A | N/A | N/A | N/A | N/A | N/A |
| Current consumption | A | 7 | 7 | 7 | 10 | 10 | 10 |
| Duty cycle | % | 10 (1/9) | 10 (1/9) | 10 (1/9) | 10 (1/9) | 10 (1/9) | 10 (1/9) |
| Ambient temperature | °C | +10 to +40 | +10 to +40 | +10 to +40 | +10 to +40 | +10 to +40 | +10 to +40 |
| Type of protection | IP | ×4/×6S | ×4/×6S | ×4/×6S | ×4/×6S | ×4/×6S | ×4/×6S |
| Weight | kg | 4,7 | 4,7 | 4,7 | 4,7 | 4,7 | 4,7 |
| Color | – | Grey | Grey | Grey | Grey | Grey | Grey |

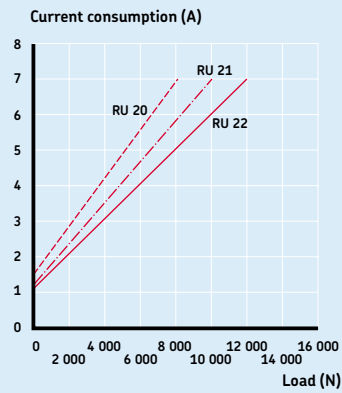
¹⁾ Safety working load for medical application is 10 000 N (EN 60601)

²⁾ S ≤ 500 mm; L = S + 215
 S > 500 mm; L = S + 315

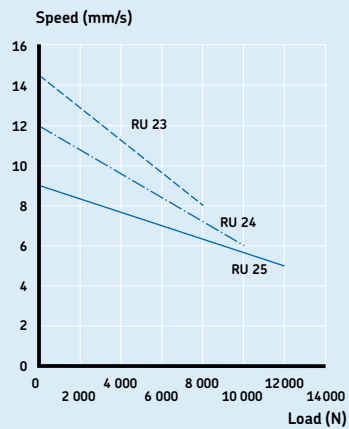
Performance diagrams



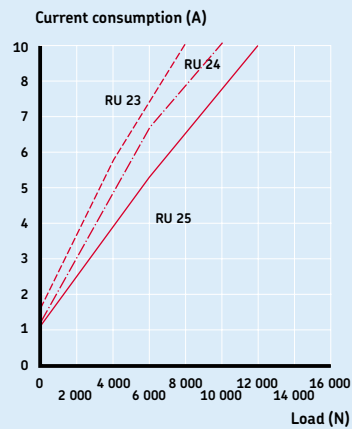
Speed-load diagram



Current-load diagram



Speed-load diagram

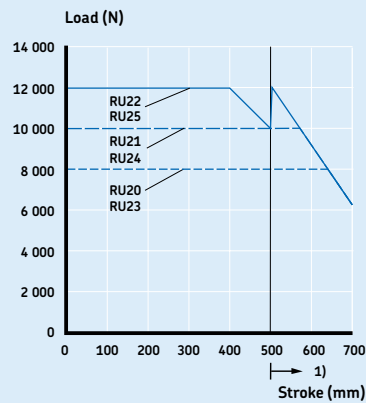


Current-load diagram

Safety factor load conditions



Push load limit, safety factor $S=4$
(EN 60601 1) retracted length extension
at stroke >500 mm



Push load limit, safety factor $S=2$
(EN 60601 1) retracted length extension
at stroke >500 mm

Ordering key

RU 2 - [] [] [] [] [] [] [] [] [] [] 00

Type

Voltage:
24 V DC

Load / Speed:

| | |
|----------------------|---|
| 8 000 N / 7-10 mm/s | 0 |
| 8 000 N / 8-15 mm/s | 3 |
| 10 000 N / 5-8 mm/s | 1 |
| 10 000 N / 6-12 mm/s | 4 |
| 12 000 N / 4-7 mm/s | 2 |
| 12 000 N / 5-9 mm/s | 5 |

Stroke (S) / Retracted length (L):

| | |
|-----------------------|---------|
| 50 mm / 315 mm | 050315 |
| 100 mm / 315 mm | 100315 |
| 150 mm / 365 mm | 150365 |
| 200 mm / 415 mm | 200415 |
| 250 mm / 465 mm | 250465 |
| 300 mm / 515 mm | 300515 |
| 350 mm / 565 mm | 350565 |
| 400 mm / 615 mm | 400615 |
| 450 mm / 665 mm | 450665 |
| 500 mm / 715 mm | 500715 |
| 550 mm / 865 mm | 550865 |
| 600 mm / 915 mm | 600915 |
| 650 mm / 965 mm | 650965 |
| 700 mm / 1 015 mm | 700 XXX |
| 50<S≤500 mm / S+215 | ----- |
| 500<S<700 mm / S+315 | ----- |
| S>700 mm (customized) | XXXXXX |

Type of protection / Color:

| | |
|-------------|---|
| IP×4S, grey | A |
| IP×6S, grey | B |

Cable:

| | |
|--|----|
| Straight cable, 1,5 m, DIN8 plug | 15 |
| <i>Straight cable, 1,5 m, Jack plug 180°</i> | 0D |

Rear attachment orientation / Hole diameter:

| | |
|------------------|---|
| 0° / Ø=12,0 mm | 0 |
| 45° / Ø=12,0 mm | 2 |
| 90° / Ø=12,0 mm | 4 |
| 135° / Ø=12,0 mm | 6 |

Option 1:

| | |
|---|---|
| No option | 0 |
| <i>Electrical anti-pinching (safety switch), pull load, L+20 mm</i> | K |
| <i>Electrical anti-pinching (safety switch), push load, L+20 mm</i> | L |

Option 2:

| | |
|--|---|
| No option | 0 |
| 2-Hall encoder, 14 pulses, DIN8 plug | A |
| Lifetime monitoring | M |
| <i>2-Hall encoder, 14 pulses, DIN8 plug, lifetime monitoring</i> | N |

Option 3:

| | |
|---|---|
| No option | - |
| <i>Emergency lowering, L+53 mm (for push load only)</i> | V |

Options shown in italics are only available on demand. Contact SKF for more information on minimum quantities and additional costs.

