

Product introduction

Working Principle

A servo electric cylinder is a modular product that integrates a servo motor with a ball screw or planetary roller screw. It converts the rotational motion of the servo motor into linear motion, while transforming the motor's advantages—precise speed control, precise rotation control, and precise torque control—into precise speed control, precise position control, and precise force control. This represents a revolutionary product for high-precision linear motion.

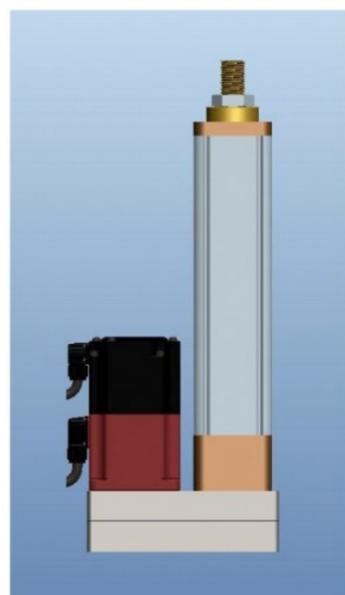
Types of Servo Electric Cylinders

1. Direct Drive Electric Cylinder

The direct drive electric cylinder integrates servo motors, servo drives, high-precision ball screws, and modular design technologies, offering advantages such as compact structure, low inertia, fast response, low noise, and long lifetime. The servo motor is directly connected to the driving screw of the electric cylinder, reducing inertia and gaps, thus enhancing control and precision. The overall connection facilitates easier installation, with stable performance and low failure rates.

2. Retractable Electric Cylinder

The retractable electric cylinder is suitable for installations with space constraints due to its short overall length. The selected gearbox and reducer are high-precision and high-lifetime products, giving the entire electric cylinder high control and precision.



Applications of Servo Electric Cylinders

Servo electric cylinders are widely used in material handling and high-precision mechanical processing fields: aerospace testing equipment, six-degree-of-freedom simulators, lifting platforms, robotics, injection molding machines, press-fitting machines, mold control, valve control, precision machine tools, and automotive manufacturing equipment.

Features

Electric cylinders can operate faultlessly for long periods in harsh environments, achieving high strength, high speed, and high precision with smooth motion and low noise. Their unique anti-rotation feature ensures high-precision position control and safety.

● High Transmission Efficiency

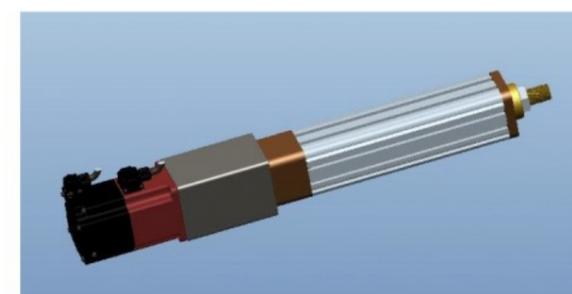
Electric cylinders using precision ball screws or planetary roller screws eliminate many complex mechanical structures, significantly improving transmission efficiency, which can exceed 90%.

● High Positioning Accuracy

Servo electric cylinders with ball screws can achieve precise positioning of about 0.01 mm through servo control, making them suitable for high-precision applications. They can attain significant accuracy in semi-closed loop systems, unlike hydraulic or pneumatic cylinders, which require full closed-loop systems to achieve similar precision.

● Simple Structure, Compact Size, Easy Maintenance

The servo electric cylinder mainly consists of a motor and nut-screw structure, making it compact and occupying minimal workspace. Its simplicity allows for easy troubleshooting and convenient maintenance.



● Stable Operation

Using ball screws or planetary roller screws significantly reduces friction in the drive mechanism, decreasing material wear, enhancing operational stability, and extending lifetime.

● Precise Control

Equipped with encoders, rotary transformers, or potentiometers, and controlled by inverters, servo controllers, or PLCs, it achieves closed-loop precise positioning.

● Well Synchronization

When multiple drives need to operate in sync, achieving high precision with hydraulic or pneumatic cylinders is challenging. In contrast, synchronizing multiple electric cylinders is easier due to the electrical system's frequency characteristics.

● Overload Protection

Can be equipped with safety clutches to prevent overload, as well as overload pressure sensors for alarm functions.

● High Load Capacity and Long Stroke

Pull/push force ranges from 15 kg to 30 tons, with strokes up to 1 meter.

● High Speed

Product introduction

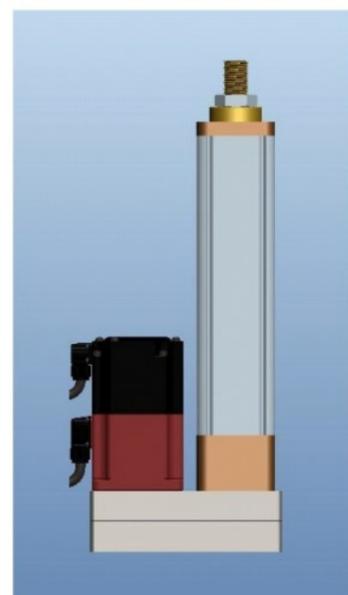
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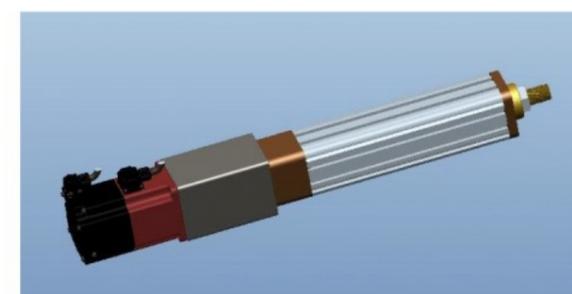
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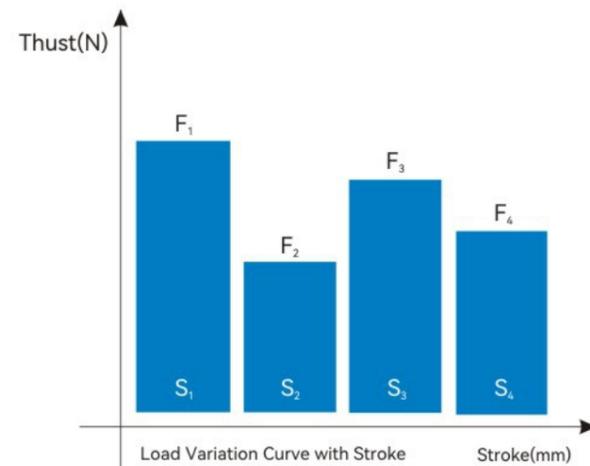
Lifetime Calculation

The lifetime of electric cylinder products is primarily determined by the lifetime of components like screws. We mainly verify the lifetime of the screw, as other components may also experience wear but typically have a longer lifetime than the screw.

The expected lifetime L10 of the screw is the running distance that 90% of screws can achieve or exceed before material fatigue failure occurs. The unit is in millions of millimeters. L10 is not a warranty commitment; the expected lifetime assumes proper maintenance, no contaminants, and correct lubrication.

If the desired expected lifetime is greater than 90%, multiply the expected lifetime by the following coefficients:

- 95%: L10 x 62%
- 96%: L10 x 53%
- 97%: L10 x 44%
- 98%: L10 x 33%
- 99%: L10 x 21%



lifetime Calculation Formula: $L_{10} = (C/F_m)^3 \times P$

Where:

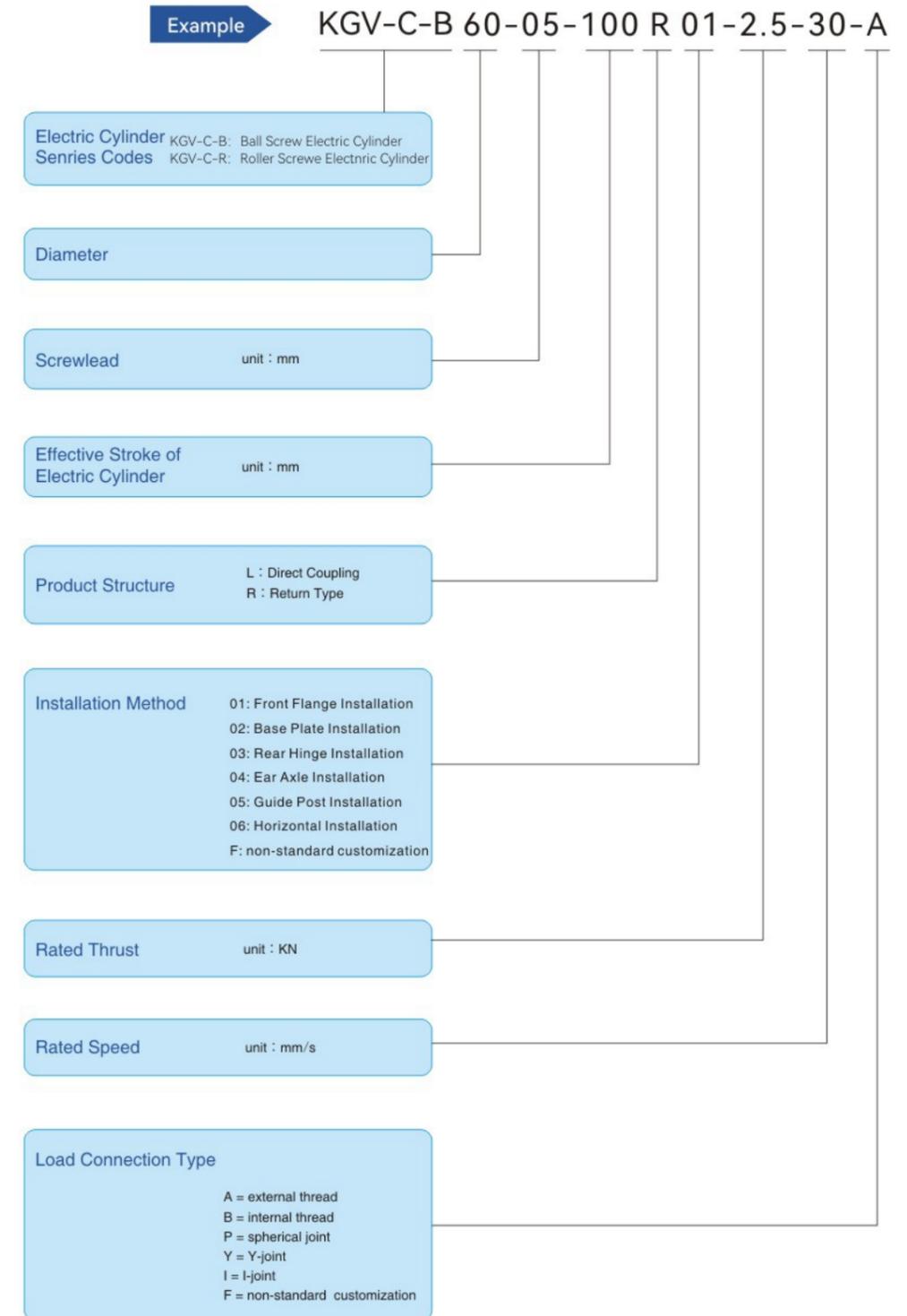
- L10: Theoretical lifetime in kilometers (km)
- C: Rated dynamic load (N)
- P: Lead of the screw (mm)
- Fm: Average load (N)

To accurately calculate the lifetime of the ball screw, we first determine the average load, as shown in the Load Variation Curve with Stroke.

The average load Fm can be calculated using the following formula:

$$F_m = \sqrt{\frac{F_1^3 S_1 + F_2^3 S_2 + F_3^3 S_3 + F_4^3 S_4}{S_1 + S_2 + S_3 + S_4}}$$

Order instructions



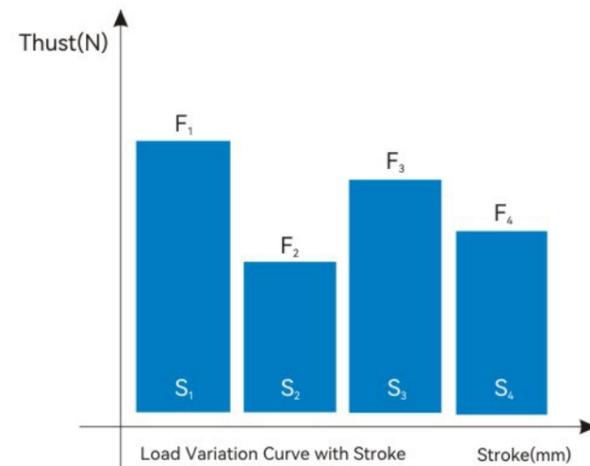
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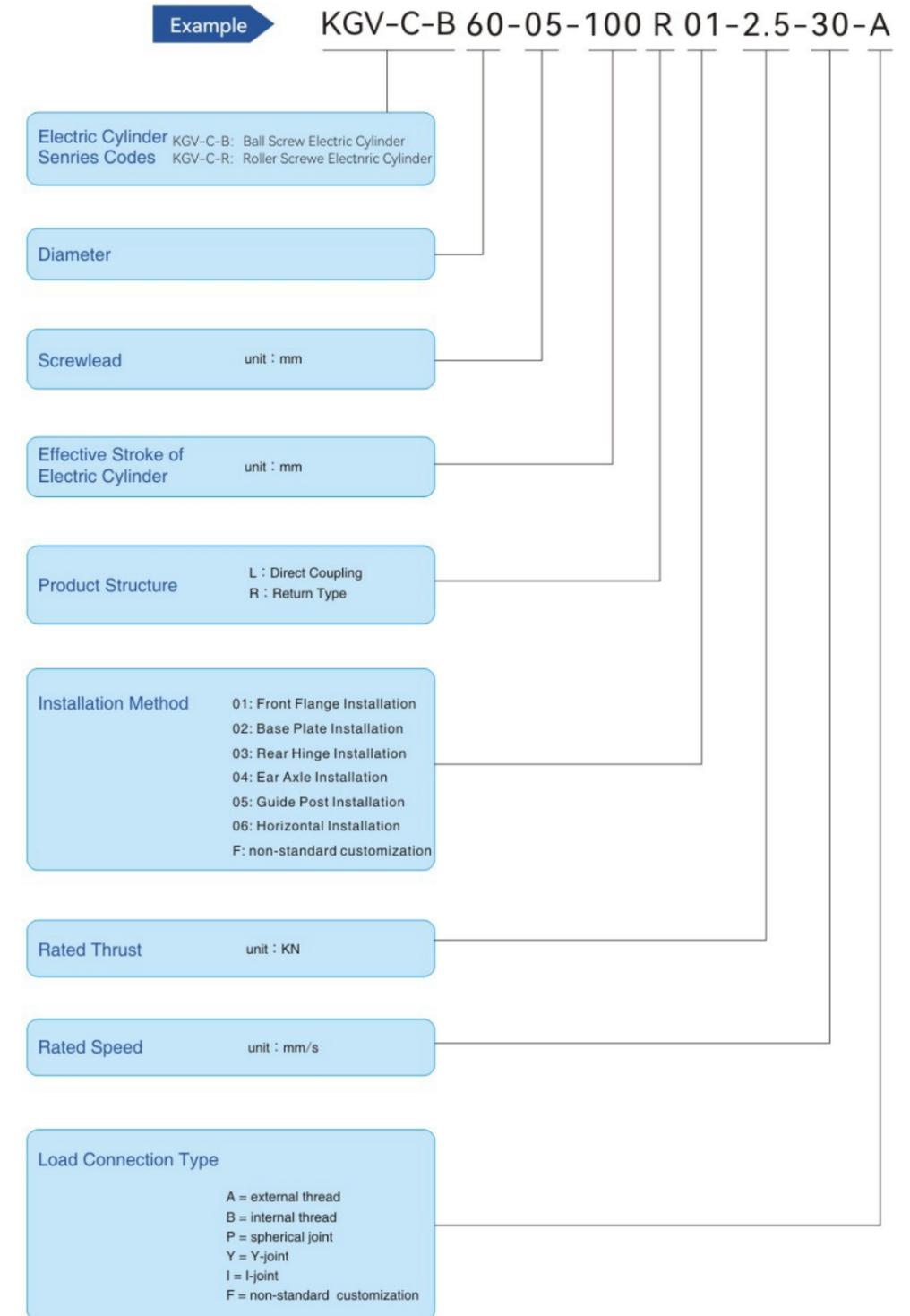
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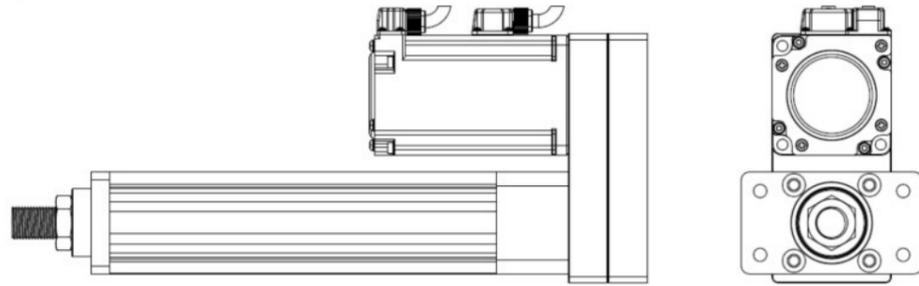
$$F_m = \sqrt{\frac{F_1^3 S_1 + F_2^3 S_2 + F_3^3 S_3 + F_4^3 S_4}{S_1 + S_2 + S_3 + S_4}}$$

Order instructions

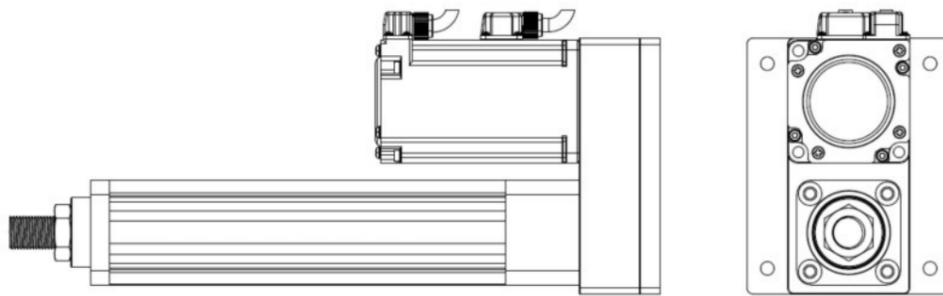


Installation Methods

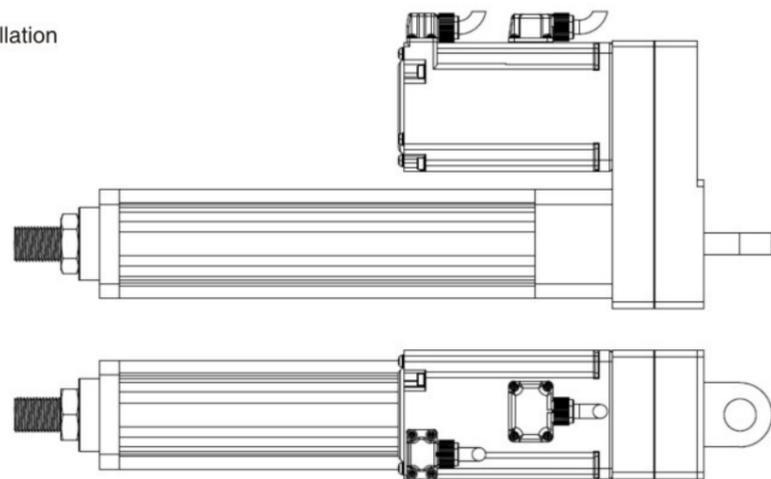
Front Flange Installation



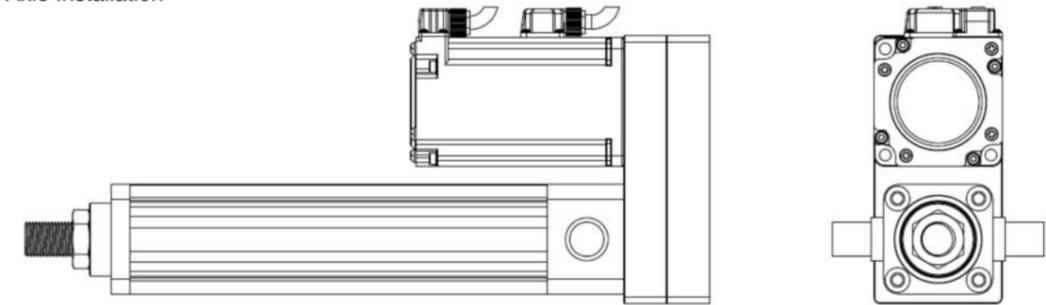
Base Plate Installation



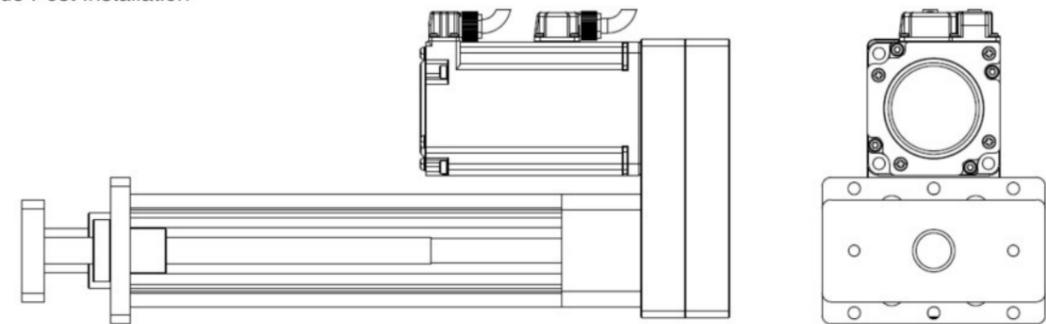
Rear Hinge Installation



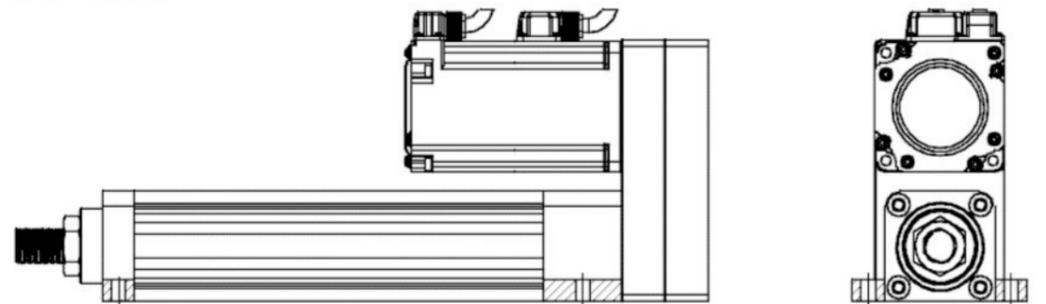
Ear Axle Installation



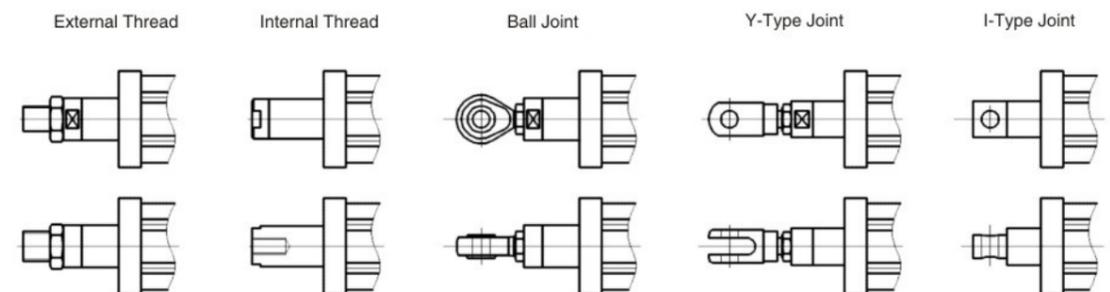
Guide Post Installation



Horizontal Installation

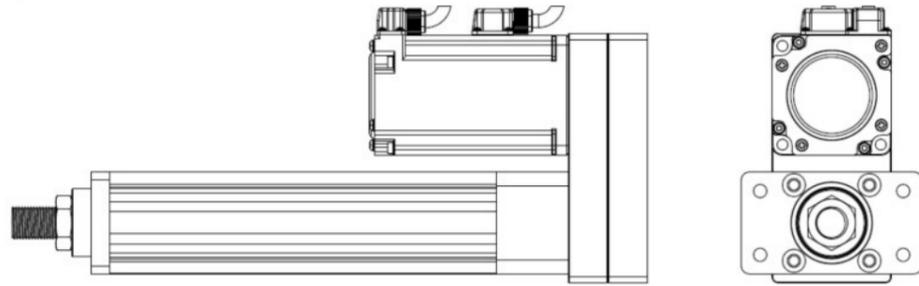


Load Connection Types

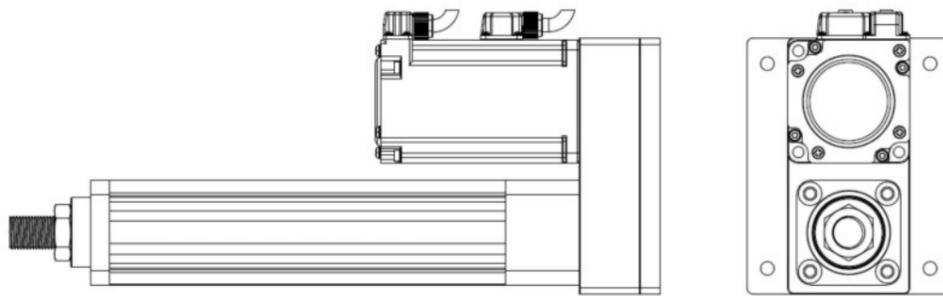


Installation Methods

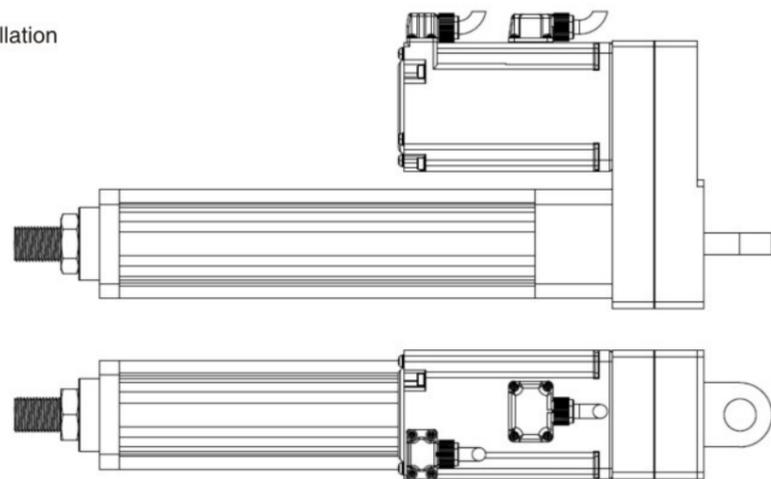
Front Flange Installation



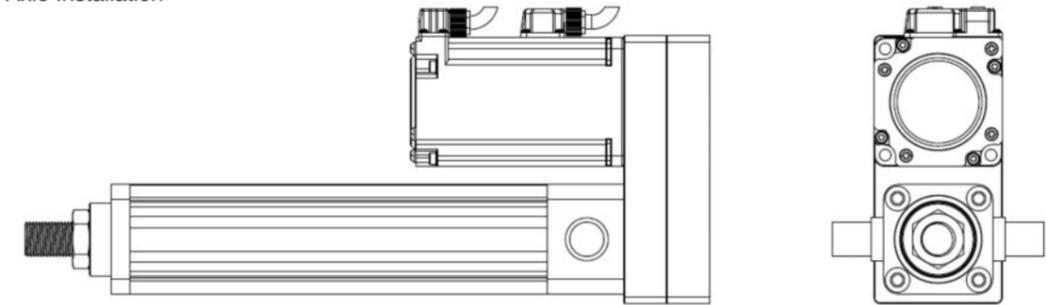
Base Plate Installation



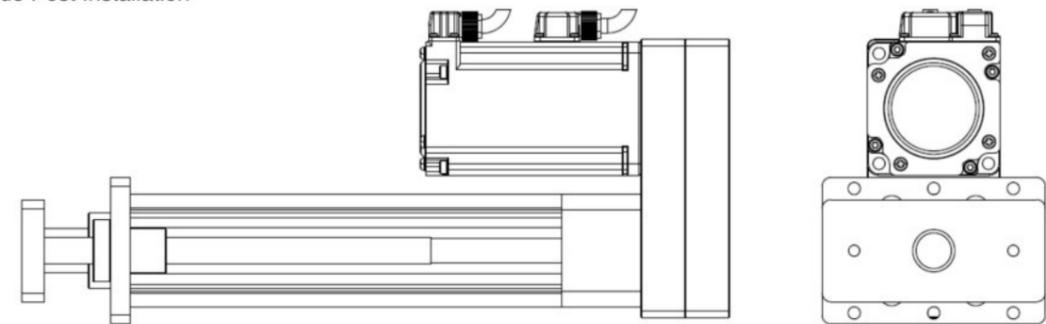
Rear Hinge Installation



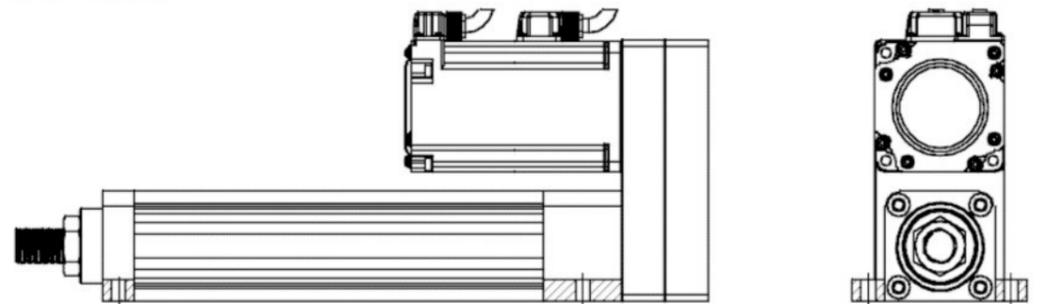
Ear Axle Installation



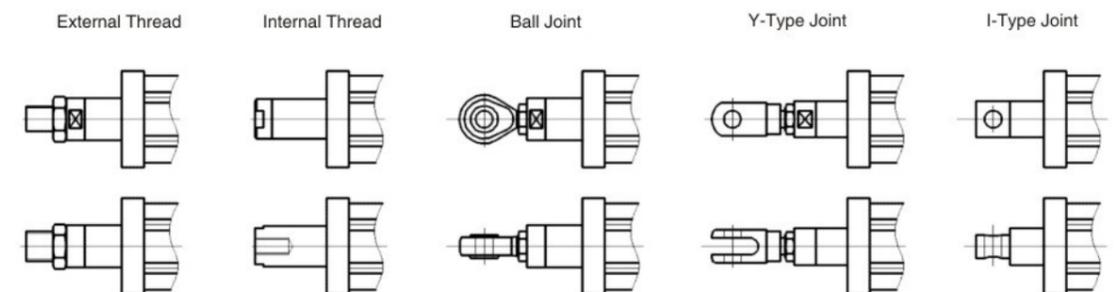
Guide Post Installation



Horizontal Installation



Load Connection Types



KGV-C-B Technical Specifications

| Series | Screw Lead | Max Thrust | Max Speed | Screw Input Torque under Max Thrust | Screw rated dynamic load | Maximum Stroke | Weight per 100 mm Stroke | Maximum Rotation Angle of Power Tube | Axial Clearance | 300 mm Lead Error | Reproducibility |
|------------|------------|------------|-----------|-------------------------------------|--------------------------|----------------|--------------------------|--------------------------------------|-----------------|-------------------|-----------------|
| | mm | KN | mm/s | Nm | KN | mm | Kg | ° | mm | mm | mm |
| KGV-C-B50 | 2 | 1.5 | 100 | 0.72 | 1.85 | 200 | 2.1 | ±0.3 | 0.02-0.04 | 0.02 | 0.01 |
| | 3 | 3 | 150 | 2.5 | 3.4 | | | | | | |
| | 4 | 3 | 200 | 3 | 3.8 | | | | | | |
| KGV-C-B60 | 4 | 6 | 100 | 5.8 | 7.6 | 300 | 3.5 | ±0.3 | 0.02-0.04 | 0.02 | 0.02 |
| | 5 | 7.5 | 250 | 9.2 | 9.8 | | | | | | |
| KGV-C-B70 | 5 | 8.5 | 250 | 10.5 | 11 | 400 | 4.8 | ±0.3 | 0.02-0.04 | 0.02 | 0.02 |
| | 6 | 11 | 300 | 16.2 | 13.8 | | | | | | |
| KGV-C-B80 | 5 | 10 | 250 | 12.4 | 12.5 | 400 | 7.1 | ±0.3 | 0.03-0.05 | 0.025 | 0.02 |
| | 6 | 13 | 300 | 19.1 | 16.3 | | | | | | |
| KGV-C-B100 | 5 | 14 | 250 | 17.2 | 17.6 | 600 | 15 | ±0.3 | 0.03-0.05 | 0.03 | 0.02 |
| | 6 | 15 | 300 | 22.1 | 19.2 | | | | | | |
| | 8 | 18 | 400 | 35.3 | 23.3 | | | | | | |
| | 10 | 26 | 500 | 64 | 33.4 | | | | | | |
| KGV-C-B120 | 5 | 17 | 250 | 21 | 22.3 | 600 | 18 | ±0.3 | 0.03-0.05 | 0.03 | 0.02 |
| | 6 | 24 | 300 | 35.5 | 30.2 | | | | | | |
| | 8 | 30 | 400 | 59 | 38.5 | | | | | | |
| | 10 | 30 | 500 | 74 | 38.5 | | | | | | |

- Notes:
- The recommended operating speed for the KGV-C-B series servo electric cylinder is no more than 500 mm/s. By selecting special ball screws or planetary roller screws, speeds can reach up to 1 m/s.
 - The power listed in the table refers to the output power of the servo motor at a rated speed of 3000 rpm.
 - For data requirements beyond this range, please consult with an engineer.

Selection Table

KGV-C-B50

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 3000 | | 2000 | | 1500 | | 1000 | | 500 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B50 | 2 | 1: 1 | 100 | | | | | | | 0.15 | 0.48 | 0.08 | 0.25 |
| | | 1: 2 | 50 | | | | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 | |
| | | 1: 3 | 33.3 | | | | 0.08 | 0.25 | 0.05 | 0.16 | 0.03 | 0.10 | |
| | | 1: 5 | 20 | | | | 0.05 | 0.16 | 0.03 | 0.10 | 0.02 | 0.06 | |
| | | 1: 10 | 10 | | | | 0.03 | 0.10 | 0.02 | 0.06 | 0.01 | 0.03 | |
| | 3 | 1: 1 | 150 | 0.57 | 1.81 | 0.48 | 1.53 | 0.34 | 1.08 | 0.23 | 0.73 | 0.12 | 0.38 |
| | | 1: 2 | 75 | 0.28 | 0.89 | 0.23 | 0.73 | 0.17 | 0.54 | 0.12 | 0.38 | 0.06 | 0.19 |
| | | 1: 3 | 50 | 0.19 | 0.60 | 1.50 | 4.78 | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 |
| | | 1: 5 | 30 | 1.40 | 4.46 | 0.94 | 2.99 | 0.07 | 0.22 | 0.05 | 0.16 | 0.06 | 0.19 |
| | | 1: 10 | 15 | 0.70 | 2.23 | 0.47 | 1.50 | 0.04 | 0.13 | 0.03 | 0.10 | 0.02 | 0.06 |
| | 4 | 1: 1 | 200 | 0.80 | 2.55 | 0.60 | 1.91 | 0.45 | 1.43 | 0.30 | 0.96 | 0.15 | 0.48 |
| | | 1: 2 | 100 | 0.40 | 1.27 | 0.32 | 1.02 | 0.23 | 0.73 | 0.15 | 0.48 | 0.08 | 0.25 |
| | | 1: 3 | 66.7 | 0.30 | 0.96 | 0.20 | 0.64 | 0.15 | 0.48 | 0.10 | 0.32 | 0.05 | 0.16 |
| | | 1: 5 | 40 | 0.20 | 0.64 | 1.25 | 3.98 | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 |
| | | 1: 10 | 20 | 0.90 | 2.87 | 0.63 | 2.01 | 0.05 | 0.16 | 0.03 | 0.10 | 0.02 | 0.06 |

KGV-C-B60

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 7500 | | 6000 | | 4000 | | 2000 | | 1000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B60 | 4 | 1: 1 | 200 | | | 1.80 | 5.73 | 1.20 | 3.82 | 0.60 | 1.91 | 0.30 | 0.96 |
| | | 1: 3 | 100 | | | 0.60 | 1.91 | 0.40 | 1.27 | 0.20 | 0.64 | 0.10 | 0.32 |
| | | 1: 5 | 66.7 | | | 0.36 | 1.15 | 0.24 | 0.76 | 0.12 | 0.38 | 0.06 | 0.19 |
| | | 1: 10 | 40 | | | 0.18 | 0.57 | 0.12 | 0.38 | 0.06 | 0.19 | 0.03 | 0.10 |
| | | 1: 20 | 20 | | | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 | 0.02 | 0.06 |
| | 5 | 1: 1 | 250 | 2.85 | 9.07 | 2.28 | 7.26 | 1.52 | 4.84 | 0.76 | 2.42 | 0.38 | 1.21 |
| | | 1: 5 | 50 | 0.57 | 1.81 | 0.46 | 1.46 | 0.31 | 0.99 | 0.16 | 0.51 | 0.08 | 0.25 |
| | | 1: 10 | 25 | 0.29 | 0.92 | 0.23 | 0.73 | 0.16 | 0.51 | 0.08 | 0.25 | 0.04 | 0.13 |
| | | 1: 20 | 12.5 | 0.15 | 0.48 | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 | 0.02 | 0.06 |
| | | 1: 25 | 10 | 0.12 | 0.38 | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 | 0.02 | 0.06 |

KGV-C-B Technical Specifications

| Series | Screw Lead | Max Thrust | Max Speed | Screw Input Torque under Max Thrust | Screw rated dynamic load | Maximum Stroke | Weight per 100 mm Stroke | Maximum Rotation Angle of Power Tube | Axial Clearance | 300 mm Lead Error | Reproducibility |
|------------|------------|------------|-----------|-------------------------------------|--------------------------|----------------|--------------------------|--------------------------------------|-----------------|-------------------|-----------------|
| | mm | KN | mm/s | Nm | KN | mm | Kg | ° | mm | mm | mm |
| KGV-C-B50 | 2 | 1.5 | 100 | 0.72 | 1.85 | 200 | 2.1 | ±0.3 | 0.02-0.04 | 0.02 | 0.01 |
| | 3 | 3 | 150 | 2.5 | 3.4 | | | | | | |
| | 4 | 3 | 200 | 3 | 3.8 | | | | | | |
| KGV-C-B60 | 4 | 6 | 100 | 5.8 | 7.6 | 300 | 3.5 | ±0.3 | 0.02-0.04 | 0.02 | 0.02 |
| | 5 | 7.5 | 250 | 9.2 | 9.8 | | | | | | |
| KGV-C-B70 | 5 | 8.5 | 250 | 10.5 | 11 | 400 | 4.8 | ±0.3 | 0.02-0.04 | 0.02 | 0.02 |
| | 6 | 11 | 300 | 16.2 | 13.8 | | | | | | |
| KGV-C-B80 | 5 | 10 | 250 | 12.4 | 12.5 | 400 | 7.1 | ±0.3 | 0.03-0.05 | 0.025 | 0.02 |
| | 6 | 13 | 300 | 19.1 | 16.3 | | | | | | |
| KGV-C-B100 | 5 | 14 | 250 | 17.2 | 17.6 | 600 | 15 | ±0.3 | 0.03-0.05 | 0.03 | 0.02 |
| | 6 | 15 | 300 | 22.1 | 19.2 | | | | | | |
| | 8 | 18 | 400 | 35.3 | 23.3 | | | | | | |
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Selection Table

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| | | | | 3000 | | 2000 | | 1500 | | 1000 | | 500 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
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| | | 1: 2 | 50 | | | | | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 |
| | | 1: 3 | 33.3 | | | | | 0.08 | 0.25 | 0.05 | 0.16 | 0.03 | 0.10 |
| | | 1: 5 | 20 | | | | | 0.05 | 0.16 | 0.03 | 0.10 | 0.02 | 0.06 |
| | | 1: 10 | 10 | | | | | 0.03 | 0.10 | 0.02 | 0.06 | 0.01 | 0.03 |
| | 3 | 1: 1 | 150 | 0.57 | 1.81 | 0.48 | 1.53 | 0.34 | 1.08 | 0.23 | 0.73 | 0.12 | 0.38 |
| | | 1: 2 | 75 | 0.28 | 0.89 | 0.23 | 0.73 | 0.17 | 0.54 | 0.12 | 0.38 | 0.06 | 0.19 |
| | | 1: 3 | 50 | 0.19 | 0.60 | 1.50 | 4.78 | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 |
| | | 1: 5 | 30 | 1.40 | 4.46 | 0.94 | 2.99 | 0.07 | 0.22 | 0.05 | 0.16 | 0.06 | 0.19 |
| | | 1: 10 | 15 | 0.70 | 2.23 | 0.47 | 1.50 | 0.04 | 0.13 | 0.03 | 0.10 | 0.02 | 0.06 |
| | 4 | 1: 1 | 200 | 0.80 | 2.55 | 0.60 | 1.91 | 0.45 | 1.43 | 0.30 | 0.96 | 0.15 | 0.48 |
| | | 1: 2 | 100 | 0.40 | 1.27 | 0.32 | 1.02 | 0.23 | 0.73 | 0.15 | 0.48 | 0.08 | 0.25 |
| | | 1: 3 | 66.7 | 0.30 | 0.96 | 0.20 | 0.64 | 0.15 | 0.48 | 0.10 | 0.32 | 0.05 | 0.16 |
| | | 1: 5 | 40 | 0.20 | 0.64 | 1.25 | 3.98 | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 |
| | | 1: 10 | 20 | 0.90 | 2.87 | 0.63 | 2.01 | 0.05 | 0.16 | 0.03 | 0.10 | 0.02 | 0.06 |

KGV-C-B60

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 7500 | | 6000 | | 4000 | | 2000 | | 1000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B60 | 4 | 1: 1 | 200 | | | 1.80 | 5.73 | 1.20 | 3.82 | 0.60 | 1.91 | 0.30 | 0.96 |
| | | 1: 3 | 100 | | | 0.60 | 1.91 | 0.40 | 1.27 | 0.20 | 0.64 | 0.10 | 0.32 |
| | | 1: 5 | 66.7 | | | 0.36 | 1.15 | 0.24 | 0.76 | 0.12 | 0.38 | 0.06 | 0.19 |
| | | 1: 10 | 40 | | | 0.18 | 0.57 | 0.12 | 0.38 | 0.06 | 0.19 | 0.03 | 0.10 |
| | | 1: 20 | 20 | | | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 | 0.02 | 0.06 |
| | 5 | 1: 1 | 250 | 2.85 | 9.07 | 2.28 | 7.26 | 1.52 | 4.84 | 0.76 | 2.42 | 0.38 | 1.21 |
| | | 1: 5 | 50 | 0.57 | 1.81 | 0.46 | 1.46 | 0.31 | 0.99 | 0.16 | 0.51 | 0.08 | 0.25 |
| | | 1: 10 | 25 | 0.29 | 0.92 | 0.23 | 0.73 | 0.16 | 0.51 | 0.08 | 0.25 | 0.04 | 0.13 |
| | | 1: 20 | 12.5 | 0.15 | 0.48 | 0.12 | 0.38 | 0.08 | 0.25 | 0.04 | 0.13 | 0.02 | 0.06 |
| | | 1: 25 | 10 | 0.12 | 0.38 | 0.09 | 0.29 | 0.06 | 0.19 | 0.03 | 0.10 | 0.02 | 0.06 |

Selection Table

KGV-C-B70

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 11000 | | 9000 | | 7000 | | 5000 | | 3000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B70 | 5 | 1: 3 | 83.3 | | | 1.14 | 3.63 | 0.89 | 2.83 | 0.64 | 2.04 | 0.38 | 1.21 |
| | | 1: 5 | 50 | | | 0.69 | 2.20 | 0.54 | 1.72 | 0.38 | 1.21 | 0.23 | 0.73 |
| | | 1: 10 | 25 | | | 0.34 | 1.08 | 0.27 | 0.86 | 0.19 | 0.60 | 0.12 | 0.38 |
| | | 1: 20 | 12.5 | | | 0.17 | 0.54 | 0.14 | 0.45 | 0.10 | 0.32 | 0.06 | 0.19 |
| | | 1: 30 | 8.3 | | | 0.12 | 0.38 | 0.90 | 2.87 | 0.07 | 0.22 | 0.04 | 0.13 |
| | 6 | 1: 3 | 100 | 1.68 | 5.35 | 1.37 | 4.36 | 1.07 | 3.41 | 0.76 | 2.42 | 0.46 | 1.46 |
| | | 1: 5 | 60 | 1.01 | 3.22 | 0.82 | 2.61 | 0.64 | 2.04 | 0.46 | 1.46 | 0.28 | 0.89 |
| | | 1: 10 | 30 | 0.51 | 1.62 | 0.41 | 1.31 | 0.32 | 1.02 | 0.23 | 0.73 | 0.14 | 0.45 |
| | | 1: 20 | 15 | 0.25 | 0.80 | 0.21 | 0.67 | 0.16 | 0.51 | 0.12 | 0.38 | 0.07 | 0.22 |
| | | 1: 30 | 10 | 0.17 | 0.54 | 0.14 | 0.45 | 0.11 | 0.35 | 0.08 | 0.25 | 0.05 | 0.16 |

KGV-C-B80

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 13000 | | 10000 | | 8000 | | 5000 | | 3000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B80 | 5 | 1: 3 | 83.3 | | | 1.27 | 4.04 | 0.10 | 0.32 | 0.64 | 2.04 | 0.38 | 1.21 |
| | | 1: 5 | 50 | | | 0.76 | 2.42 | 0.61 | 1.94 | 0.38 | 1.21 | 0.23 | 0.73 |
| | | 1: 10 | 25 | | | 0.38 | 1.21 | 0.31 | 0.99 | 0.19 | 0.60 | 0.12 | 0.38 |
| | | 1: 20 | 12.5 | | | 0.19 | 0.60 | 0.15 | 0.48 | 0.10 | 0.32 | 0.06 | 0.19 |
| | | 1: 30 | 8.3 | | | 0.13 | 0.41 | 0.10 | 0.32 | 0.07 | 0.22 | 0.04 | 0.13 |
| | 6 | 1: 3 | 100 | 1.98 | 6.30 | 1.52 | 4.84 | 1.22 | 3.88 | 0.76 | 2.42 | 0.46 | 1.46 |
| | | 1: 5 | 60 | 1.19 | 3.79 | 0.92 | 2.93 | 0.73 | 2.32 | 0.46 | 1.46 | 0.28 | 0.89 |
| | | 1: 10 | 30 | 0.60 | 1.91 | 0.46 | 1.46 | 0.37 | 1.18 | 0.23 | 0.73 | 0.14 | 0.45 |
| | | 1: 20 | 15 | 0.30 | 0.96 | 0.23 | 0.73 | 0.19 | 0.60 | 0.12 | 0.38 | 0.07 | 0.22 |
| | | 1: 30 | 10 | 0.20 | 0.64 | 0.15 | 0.48 | 0.13 | 0.41 | 0.08 | 0.25 | 0.05 | 0.16 |

Selection Table

KGV-C-B100

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | | | | |
|------------|-------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------|------|------|
| | | | | 26000 | | 22000 | | 16000 | | 12000 | | 8000 | | | | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | | | |
| KGV-C-B100 | 5 | 1: 5 | 50 | | | | | | | 1.22 | 3.88 | 0.92 | 2.93 | 0.61 | 1.94 | |
| | | 1: 10 | 25 | | | | | | | 0.61 | 1.94 | 0.46 | 1.46 | 0.31 | 0.99 | |
| | | 1: 20 | 12.5 | | | | | | | 0.31 | 0.99 | 0.23 | 0.73 | 0.15 | 0.48 | |
| | | 1: 30 | 8.3 | | | | | | | 0.21 | 0.67 | 0.15 | 0.48 | 0.10 | 0.32 | |
| | | 1: 50 | 5 | | | | | | | 1.23 | 3.92 | 0.09 | 0.29 | 0.06 | 0.19 | |
| | | 6 | 1: 5 | 60 | | | | | | | 1.46 | 4.65 | 1.10 | 3.50 | 0.73 | 2.32 |
| | 1: 10 | | 30 | | | | | | | 0.73 | 2.32 | 0.55 | 1.75 | 0.37 | 1.18 | |
| | 1: 20 | | 15 | | | | | | | 0.37 | 1.18 | 0.28 | 0.89 | 0.19 | 0.60 | |
| | 1: 30 | | 10 | | | | | | | 0.25 | 0.80 | 0.18 | 0.57 | 0.13 | 0.41 | |
| | 1: 50 | | 6 | | | | | | | 0.15 | 0.48 | 0.11 | 0.35 | 0.08 | 0.25 | |
| | 8 | 1: 5 | 80 | | | | | | 2.68 | 8.53 | 1.95 | 6.21 | 0.46 | 1.46 | 0.98 | 3.12 |
| | | 1: 10 | 40 | | | | | | 1.34 | 4.27 | 0.98 | 3.12 | 0.73 | 2.32 | 0.49 | 1.56 |
| | | 1: 20 | 20 | | | | | | 0.67 | 2.13 | 0.49 | 1.56 | 0.37 | 1.18 | 0.25 | 0.80 |
| | | 1: 30 | 13.3 | | | | | | 0.45 | 1.43 | 0.33 | 1.05 | 0.25 | 0.80 | 0.17 | 0.54 |
| | | 1: 50 | 8 | | | | | | 0.27 | 0.86 | 0.20 | 0.64 | 0.15 | 0.48 | 0.10 | 0.32 |
| | | 10 | 1: 5 | 100 | 4.94 | 15.73 | 4.18 | 13.31 | 3.04 | 9.68 | 2.28 | 7.26 | 1.52 | 4.84 | | |
| | | | 1: 10 | 50 | 2.47 | 7.86 | 2.09 | 6.65 | 1.52 | 4.84 | 1.14 | 3.63 | 0.76 | 2.42 | | |
| | | | 1: 20 | 25 | 1.24 | 3.95 | 1.05 | 3.34 | 0.76 | 2.42 | 0.57 | 1.81 | 0.38 | 1.21 | | |
| | 1: 30 | | 16.7 | 0.83 | 2.64 | 0.70 | 2.23 | 0.51 | 1.62 | 0.38 | 1.21 | 0.26 | 0.83 | | | |
| | | 1: 50 | 10 | 0.50 | 1.59 | 0.42 | 1.34 | 0.31 | 0.99 | 0.23 | 0.73 | 0.16 | 0.51 | | | |

Selection Table

KGV-C-B70

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 11000 | | 9000 | | 7000 | | 5000 | | 3000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B70 | 5 | 1: 3 | 83.3 | | | 1.14 | 3.63 | 0.89 | 2.83 | 0.64 | 2.04 | 0.38 | 1.21 |
| | | 1: 5 | 50 | | | 0.69 | 2.20 | 0.54 | 1.72 | 0.38 | 1.21 | 0.23 | 0.73 |
| | | 1: 10 | 25 | | | 0.34 | 1.08 | 0.27 | 0.86 | 0.19 | 0.60 | 0.12 | 0.38 |
| | | 1: 20 | 12.5 | | | 0.17 | 0.54 | 0.14 | 0.45 | 0.10 | 0.32 | 0.06 | 0.19 |
| | | 1: 30 | 8.3 | | | 0.12 | 0.38 | 0.90 | 2.87 | 0.07 | 0.22 | 0.04 | 0.13 |
| | 6 | 1: 3 | 100 | 1.68 | 5.35 | 1.37 | 4.36 | 1.07 | 3.41 | 0.76 | 2.42 | 0.46 | 1.46 |
| | | 1: 5 | 60 | 1.01 | 3.22 | 0.82 | 2.61 | 0.64 | 2.04 | 0.46 | 1.46 | 0.28 | 0.89 |
| | | 1: 10 | 30 | 0.51 | 1.62 | 0.41 | 1.31 | 0.32 | 1.02 | 0.23 | 0.73 | 0.14 | 0.45 |
| | | 1: 20 | 15 | 0.25 | 0.80 | 0.21 | 0.67 | 0.16 | 0.51 | 0.12 | 0.38 | 0.07 | 0.22 |
| | | 1: 30 | 10 | 0.17 | 0.54 | 0.14 | 0.45 | 0.11 | 0.35 | 0.08 | 0.25 | 0.05 | 0.16 |

KGV-C-B80

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|-----------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 13000 | | 10000 | | 8000 | | 5000 | | 3000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B80 | 5 | 1: 3 | 83.3 | | | 1.27 | 4.04 | 0.10 | 0.32 | 0.64 | 2.04 | 0.38 | 1.21 |
| | | 1: 5 | 50 | | | 0.76 | 2.42 | 0.61 | 1.94 | 0.38 | 1.21 | 0.23 | 0.73 |
| | | 1: 10 | 25 | | | 0.38 | 1.21 | 0.31 | 0.99 | 0.19 | 0.60 | 0.12 | 0.38 |
| | | 1: 20 | 12.5 | | | 0.19 | 0.60 | 0.15 | 0.48 | 0.10 | 0.32 | 0.06 | 0.19 |
| | | 1: 30 | 8.3 | | | 0.13 | 0.41 | 0.10 | 0.32 | 0.07 | 0.22 | 0.04 | 0.13 |
| | 6 | 1: 3 | 100 | 1.98 | 6.30 | 1.52 | 4.84 | 1.22 | 3.88 | 0.76 | 2.42 | 0.46 | 1.46 |
| | | 1: 5 | 60 | 1.19 | 3.79 | 0.92 | 2.93 | 0.73 | 2.32 | 0.46 | 1.46 | 0.28 | 0.89 |
| | | 1: 10 | 30 | 0.60 | 1.91 | 0.46 | 1.46 | 0.37 | 1.18 | 0.23 | 0.73 | 0.14 | 0.45 |
| | | 1: 20 | 15 | 0.30 | 0.96 | 0.23 | 0.73 | 0.19 | 0.60 | 0.12 | 0.38 | 0.07 | 0.22 |
| | | 1: 30 | 10 | 0.20 | 0.64 | 0.15 | 0.48 | 0.13 | 0.41 | 0.08 | 0.25 | 0.05 | 0.16 |

Selection Table

KGV-C-B100

| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | | | | |
|------------|-------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------|------|------|
| | | | | 26000 | | 22000 | | 16000 | | 12000 | | 8000 | | | | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | | | |
| KGV-C-B100 | 5 | 1: 5 | 50 | | | | | | | 1.22 | 3.88 | 0.92 | 2.93 | 0.61 | 1.94 | |
| | | 1: 10 | 25 | | | | | | | 0.61 | 1.94 | 0.46 | 1.46 | 0.31 | 0.99 | |
| | | 1: 20 | 12.5 | | | | | | | 0.31 | 0.99 | 0.23 | 0.73 | 0.15 | 0.48 | |
| | | 1: 30 | 8.3 | | | | | | | 0.21 | 0.67 | 0.15 | 0.48 | 0.10 | 0.32 | |
| | | 1: 50 | 5 | | | | | | | 1.23 | 3.92 | 0.09 | 0.29 | 0.06 | 0.19 | |
| | | 6 | 1: 5 | 60 | | | | | | | 1.46 | 4.65 | 1.10 | 3.50 | 0.73 | 2.32 |
| | 1: 10 | | 30 | | | | | | | 0.73 | 2.32 | 0.55 | 1.75 | 0.37 | 1.18 | |
| | 1: 20 | | 15 | | | | | | | 0.37 | 1.18 | 0.28 | 0.89 | 0.19 | 0.60 | |
| | 1: 30 | | 10 | | | | | | | 0.25 | 0.80 | 0.18 | 0.57 | 0.13 | 0.41 | |
| | 1: 50 | | 6 | | | | | | | 0.15 | 0.48 | 0.11 | 0.35 | 0.08 | 0.25 | |
| | 8 | 1: 5 | 80 | | | | | | 2.68 | 8.53 | 1.95 | 6.21 | 0.46 | 1.46 | 0.98 | 3.12 |
| | | 1: 10 | 40 | | | | | | 1.34 | 4.27 | 0.98 | 3.12 | 0.73 | 2.32 | 0.49 | 1.56 |
| | | 1: 20 | 20 | | | | | | 0.67 | 2.13 | 0.49 | 1.56 | 0.37 | 1.18 | 0.25 | 0.80 |
| | | 1: 30 | 13.3 | | | | | | 0.45 | 1.43 | 0.33 | 1.05 | 0.25 | 0.80 | 0.17 | 0.54 |
| | | 1: 50 | 8 | | | | | | 0.27 | 0.86 | 0.20 | 0.64 | 0.15 | 0.48 | 0.10 | 0.32 |
| | | 10 | 1: 5 | 100 | 4.94 | 15.73 | 4.18 | 13.31 | 3.04 | 9.68 | 2.28 | 7.26 | 1.52 | 4.84 | | |
| | | | 1: 10 | 50 | 2.47 | 7.86 | 2.09 | 6.65 | 1.52 | 4.84 | 1.14 | 3.63 | 0.76 | 2.42 | | |
| | | | 1: 20 | 25 | 1.24 | 3.95 | 1.05 | 3.34 | 0.76 | 2.42 | 0.57 | 1.81 | 0.38 | 1.21 | | |
| | 1: 30 | | 16.7 | 0.83 | 2.64 | 0.70 | 2.23 | 0.51 | 1.62 | 0.38 | 1.21 | 0.26 | 0.83 | | | |
| | | 1: 50 | 10 | 0.50 | 1.59 | 0.42 | 1.34 | 0.31 | 0.99 | 0.23 | 0.73 | 0.16 | 0.51 | | | |

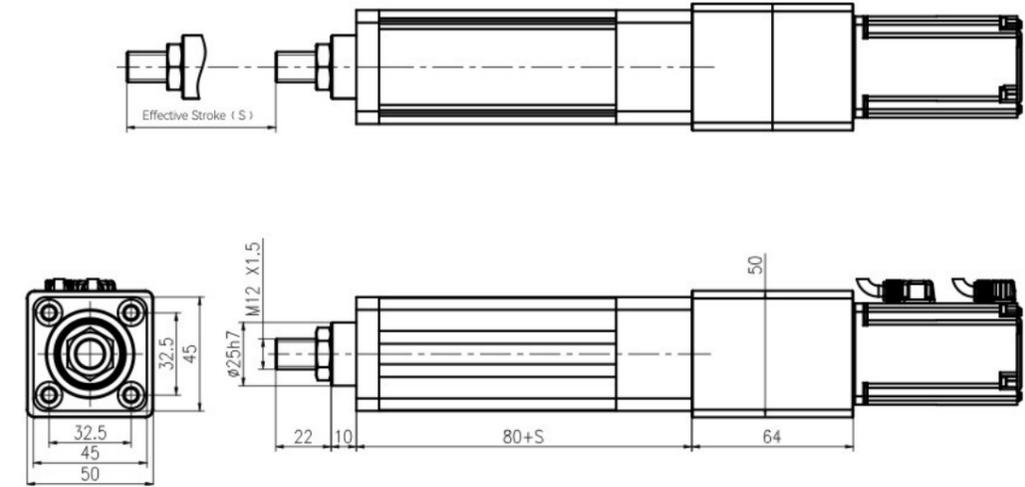
Selection Table

KGV-C-B120

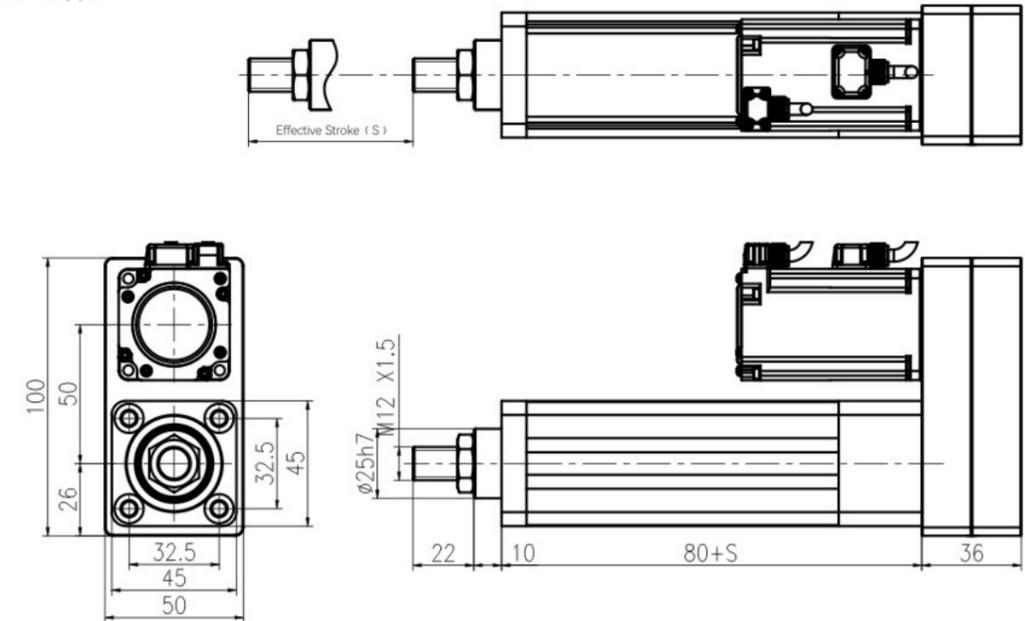
| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|------------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 30000 | | 24000 | | 20000 | | 16000 | | 12000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B120 | 5 | 1: 5 | 50 | | | | | | | 1.23 | 3.92 | 0.92 | 2.93 |
| | | 1: 10 | 25 | | | | | | | 0.62 | 1.97 | 0.46 | 1.46 |
| | | 1: 20 | 12.5 | | | | | | | 0.31 | 0.99 | 0.23 | 0.73 |
| | | 1: 30 | 8.3 | | | | | | | 0.21 | 0.67 | 0.16 | 0.51 |
| | | 1: 50 | 5 | | | | | | | 0.13 | 0.41 | 0.10 | 0.32 |
| | 6 | 1: 5 | 60 | | | 2.20 | 7.00 | 1.84 | 5.86 | 1.47 | 4.68 | 1.10 | 3.50 |
| | | 1: 10 | 30 | | | 1.10 | 3.50 | 0.92 | 2.93 | 0.74 | 2.36 | 0.55 | 1.75 |
| | | 1: 20 | 15 | | | 0.55 | 1.75 | 0.46 | 1.46 | 0.37 | 1.18 | 0.28 | 0.89 |
| | | 1: 30 | 10 | | | 0.37 | 1.18 | 0.31 | 0.99 | 0.25 | 0.80 | 0.19 | 0.60 |
| | | 1: 50 | 6 | | | 0.22 | 0.70 | 0.19 | 0.60 | 0.15 | 0.48 | 0.11 | 0.35 |
| | 8 | 1: 8 | 50 | 3.65 | 11.62 | 2.92 | 9.30 | 2.44 | 7.77 | 1.95 | 6.21 | 1.46 | 4.65 |
| | | 1: 10 | 40 | 1.83 | 5.83 | 1.46 | 4.65 | 1.22 | 3.88 | 0.98 | 3.12 | 0.73 | 2.32 |
| | | 1: 20 | 20 | 0.92 | 2.93 | 0.73 | 2.32 | 0.61 | 1.94 | 0.49 | 1.56 | 0.37 | 1.18 |
| | | 1: 30 | 13.3 | 0.61 | 1.94 | 0.49 | 1.56 | 0.41 | 1.31 | 0.33 | 1.05 | 0.25 | 0.80 |
| | | 1: 50 | 8 | 0.37 | 1.18 | 0.30 | 0.96 | 0.25 | 0.80 | 0.20 | 0.64 | 0.15 | 0.48 |
| | 10 | 1: 8 | 62.5 | 4.58 | 14.58 | 3.66 | 11.65 | 3.05 | 9.71 | 2.44 | 7.77 | 1.83 | 5.83 |
| | | 1: 10 | 50 | 2.29 | 7.29 | 1.83 | 5.83 | 1.53 | 4.87 | 1.22 | 3.88 | 0.92 | 2.93 |
| | | 1: 20 | 25 | 0.15 | 0.48 | 0.92 | 2.93 | 0.77 | 2.45 | 0.61 | 1.94 | 0.46 | 1.46 |
| | | 1: 30 | 16.7 | 0.77 | 2.45 | 0.61 | 1.94 | 0.51 | 1.62 | 0.41 | 1.31 | 0.31 | 0.99 |
| | | 1: 50 | 10 | 0.46 | 1.46 | 0.37 | 1.18 | 0.31 | 0.99 | 0.25 | 0.80 | 0.19 | 0.60 |

KGV-C-B50 Servo Electric Cylinder Figuration

Direct Coupling Type



Return Type



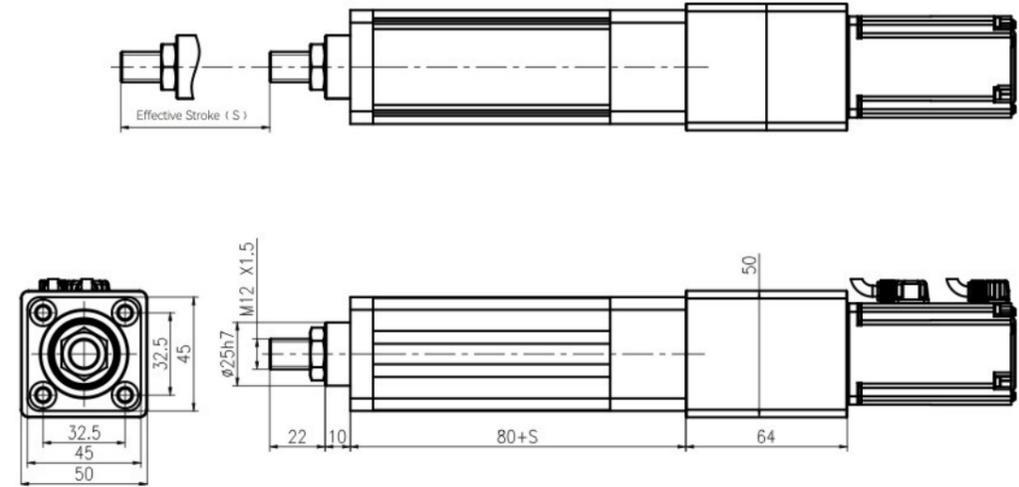
Selection Table

KGV-C-B120

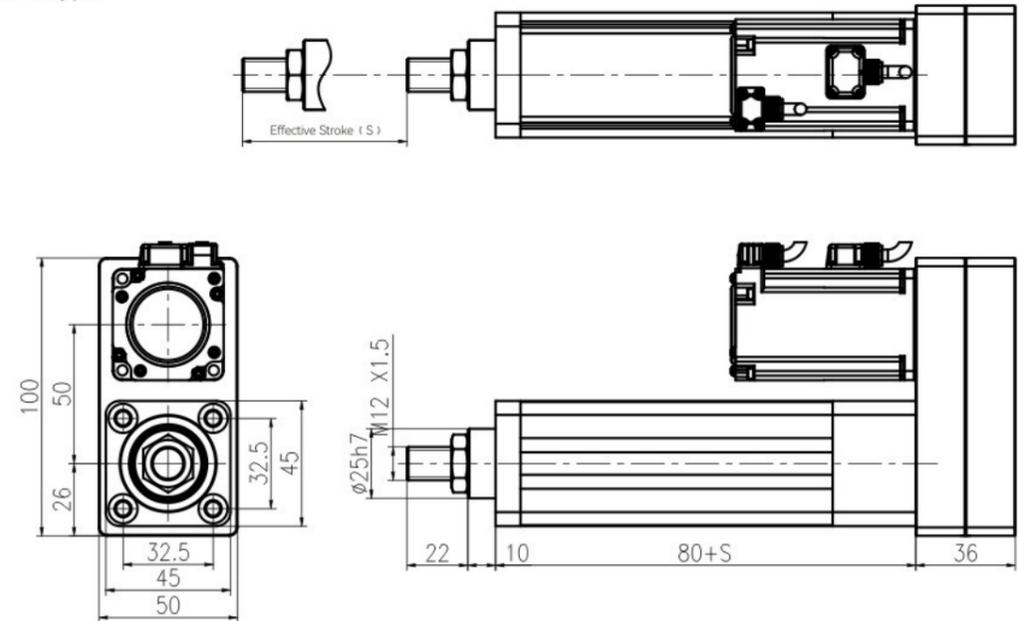
| Series | Lead | Ratio | Retracting Speed at Rated Speed of Servo Motor 3000 rpm(mm/s) | Actual Load of Servo Electric Cylinder(N) | | | | | | | | | |
|------------|------|-------|---|---|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | | | | 30000 | | 24000 | | 20000 | | 16000 | | 12000 | |
| | | | | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) | Servo Motor Power (KW) | Twisting Torque(Nm) |
| KGV-C-B120 | 5 | 1: 5 | 50 | | | | | | | 1.23 | 3.92 | 0.92 | 2.93 |
| | | 1: 10 | 25 | | | | | | | 0.62 | 1.97 | 0.46 | 1.46 |
| | | 1: 20 | 12.5 | | | | | | | 0.31 | 0.99 | 0.23 | 0.73 |
| | | 1: 30 | 8.3 | | | | | | | 0.21 | 0.67 | 0.16 | 0.51 |
| | | 1: 50 | 5 | | | | | | | 0.13 | 0.41 | 0.10 | 0.32 |
| | 6 | 1: 5 | 60 | | | 2.20 | 7.00 | 1.84 | 5.86 | 1.47 | 4.68 | 1.10 | 3.50 |
| | | 1: 10 | 30 | | | 1.10 | 3.50 | 0.92 | 2.93 | 0.74 | 2.36 | 0.55 | 1.75 |
| | | 1: 20 | 15 | | | 0.55 | 1.75 | 0.46 | 1.46 | 0.37 | 1.18 | 0.28 | 0.89 |
| | | 1: 30 | 10 | | | 0.37 | 1.18 | 0.31 | 0.99 | 0.25 | 0.80 | 0.19 | 0.60 |
| | | 1: 50 | 6 | | | 0.22 | 0.70 | 0.19 | 0.60 | 0.15 | 0.48 | 0.11 | 0.35 |
| | 8 | 1: 8 | 50 | 3.65 | 11.62 | 2.92 | 9.30 | 2.44 | 7.77 | 1.95 | 6.21 | 1.46 | 4.65 |
| | | 1: 10 | 40 | 1.83 | 5.83 | 1.46 | 4.65 | 1.22 | 3.88 | 0.98 | 3.12 | 0.73 | 2.32 |
| | | 1: 20 | 20 | 0.92 | 2.93 | 0.73 | 2.32 | 0.61 | 1.94 | 0.49 | 1.56 | 0.37 | 1.18 |
| | | 1: 30 | 13.3 | 0.61 | 1.94 | 0.49 | 1.56 | 0.41 | 1.31 | 0.33 | 1.05 | 0.25 | 0.80 |
| | | 1: 50 | 8 | 0.37 | 1.18 | 0.30 | 0.96 | 0.25 | 0.80 | 0.20 | 0.64 | 0.15 | 0.48 |
| | 10 | 1: 8 | 62.5 | 4.58 | 14.58 | 3.66 | 11.65 | 3.05 | 9.71 | 2.44 | 7.77 | 1.83 | 5.83 |
| | | 1: 10 | 50 | 2.29 | 7.29 | 1.83 | 5.83 | 1.53 | 4.87 | 1.22 | 3.88 | 0.92 | 2.93 |
| | | 1: 20 | 25 | 0.15 | 0.48 | 0.92 | 2.93 | 0.77 | 2.45 | 0.61 | 1.94 | 0.46 | 1.46 |
| | | 1: 30 | 16.7 | 0.77 | 2.45 | 0.61 | 1.94 | 0.51 | 1.62 | 0.41 | 1.31 | 0.31 | 0.99 |
| | | 1: 50 | 10 | 0.46 | 1.46 | 0.37 | 1.18 | 0.31 | 0.99 | 0.25 | 0.80 | 0.19 | 0.60 |

KGV-C-B50 Servo Electric Cylinder Figuration

Direct Coupling Type

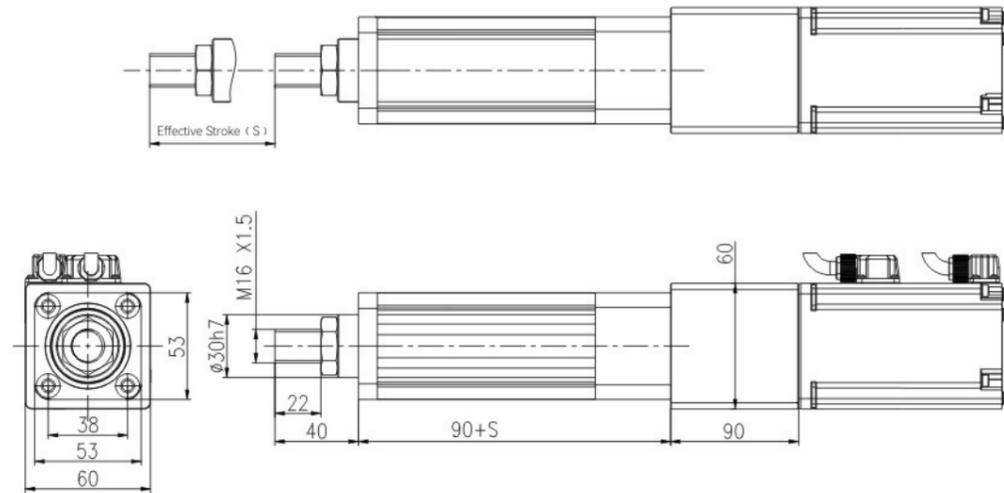


Return Type

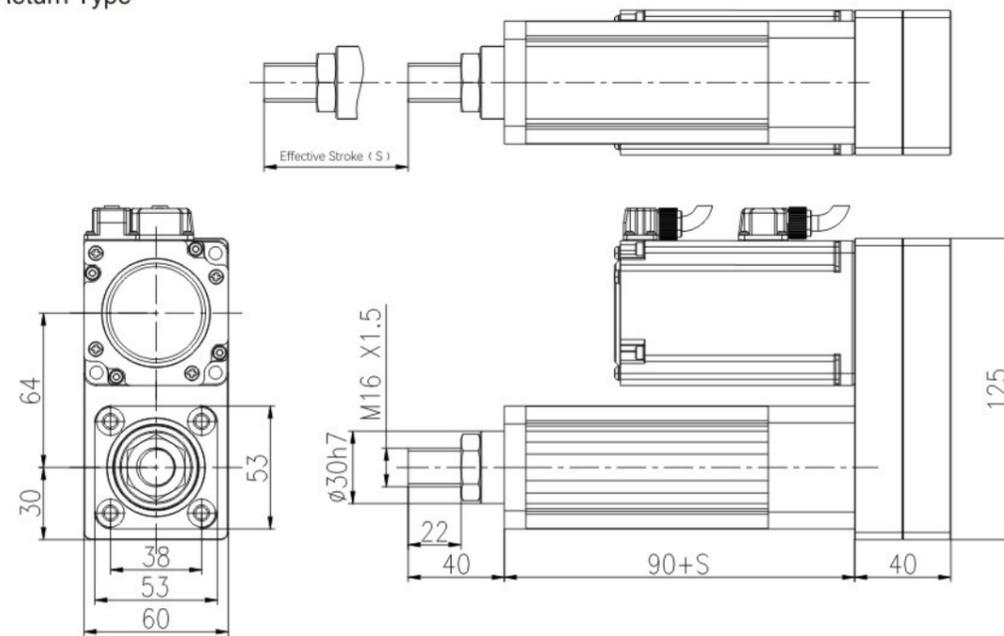


KGV-C-B60 Servo Electric Cylinder Figuration

Direct Coupling Type

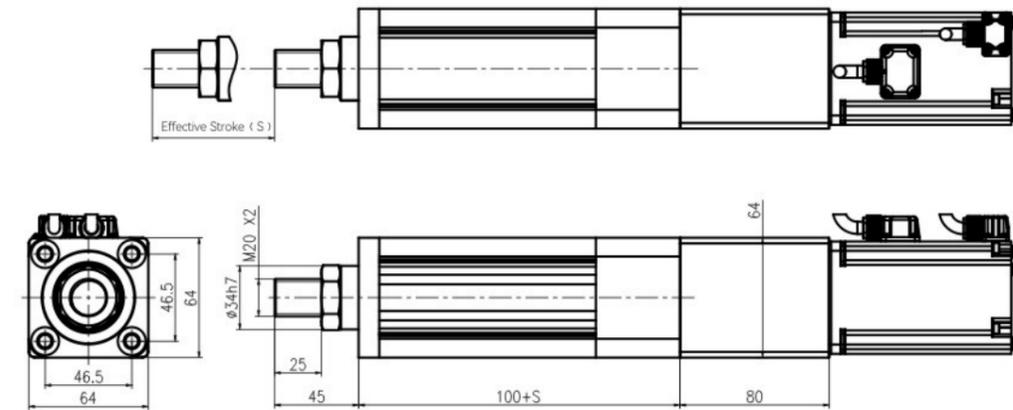


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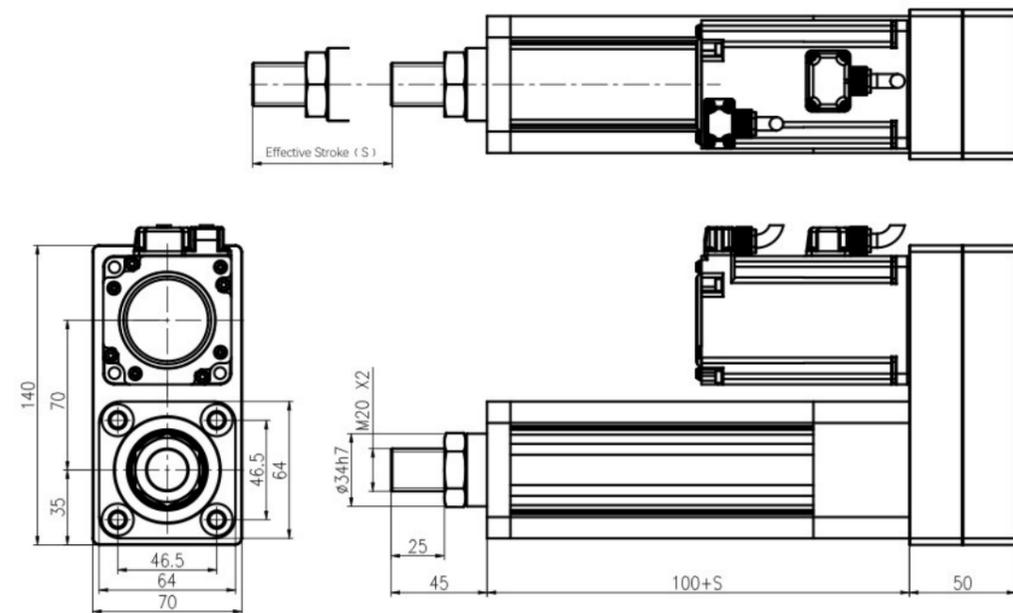


KGV-C-B70 Servo Electric Cylinder Figuration

Direct Coupling Type

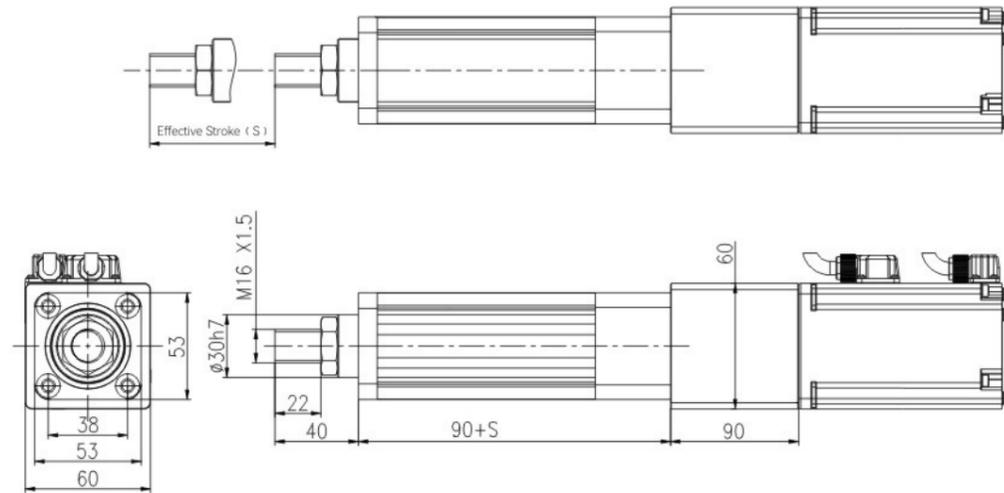


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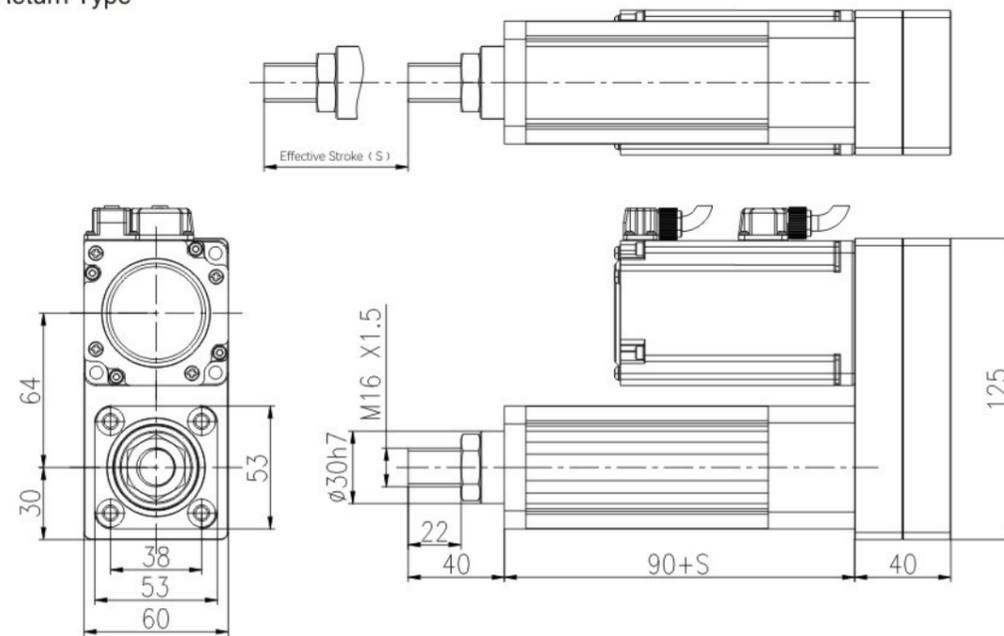


KGV-C-B60 Servo Electric Cylinder Figuration

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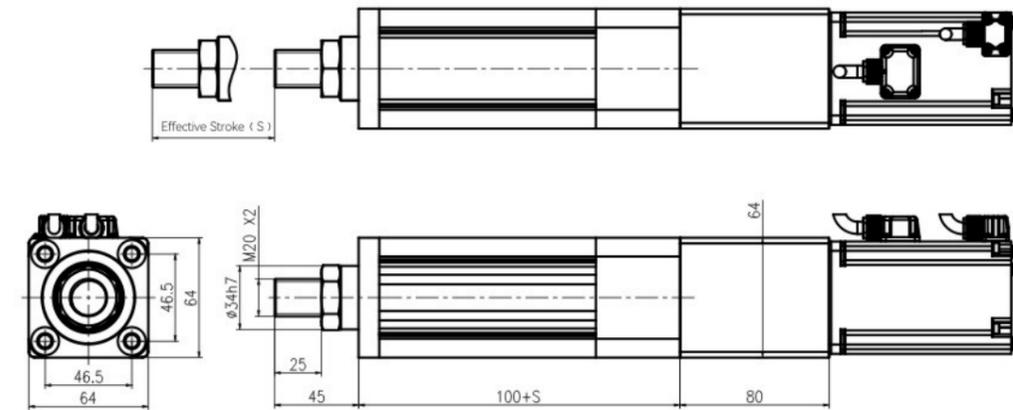


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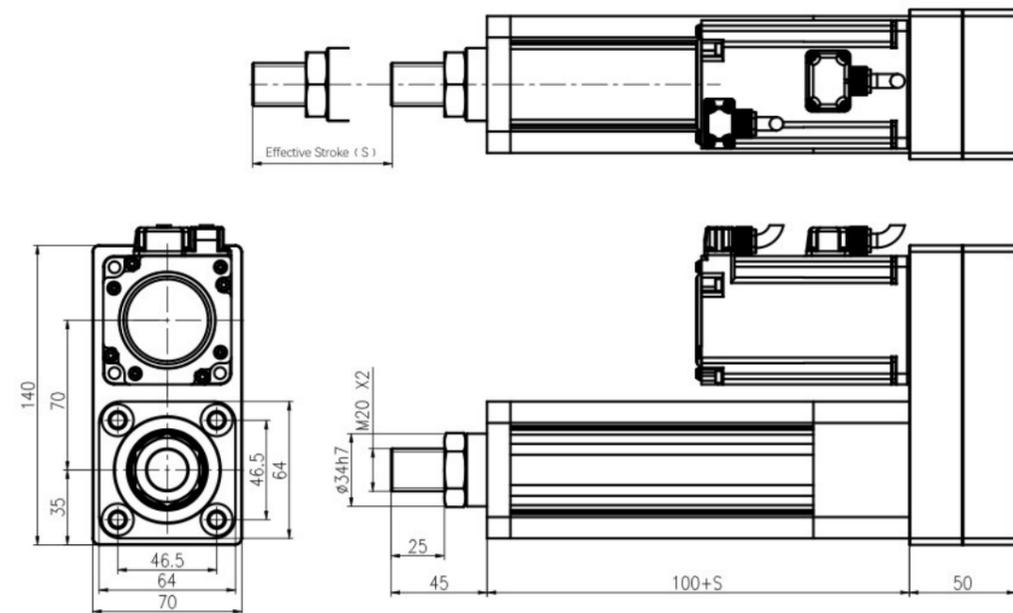


KGV-C-B70 Servo Electric Cylinder Figuration

Direct Coupling Type

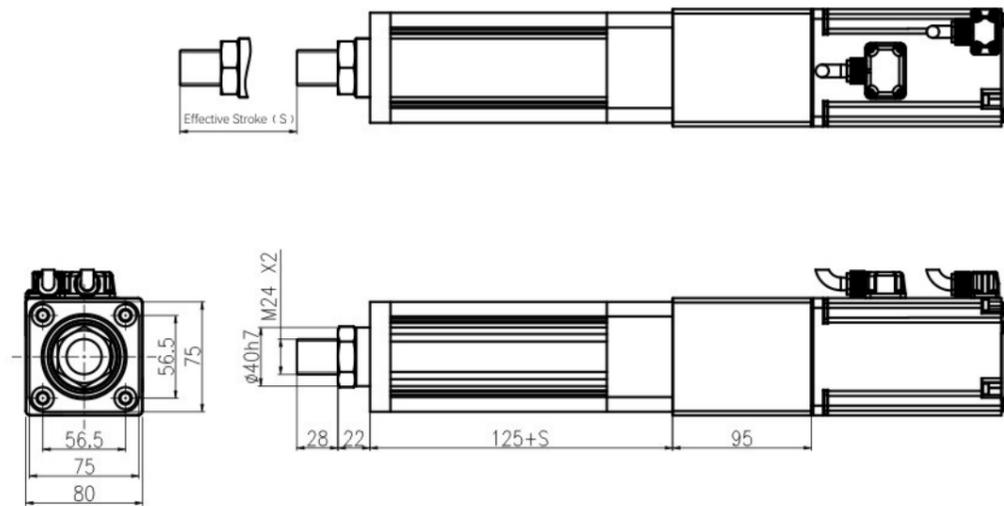


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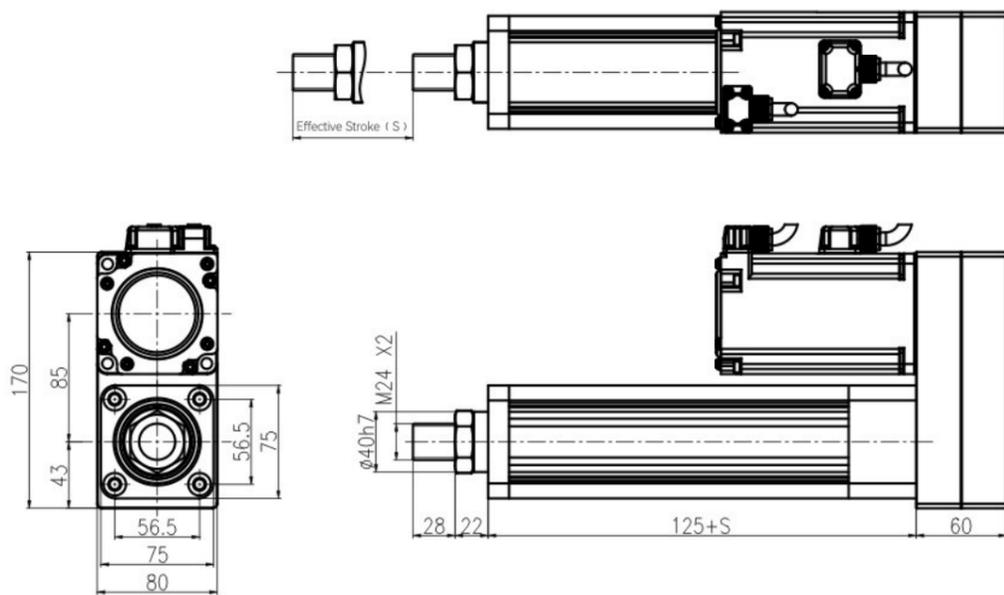


KGV-C-B80 Servo Electric Cylinder Figuration

Direct Coupling Type

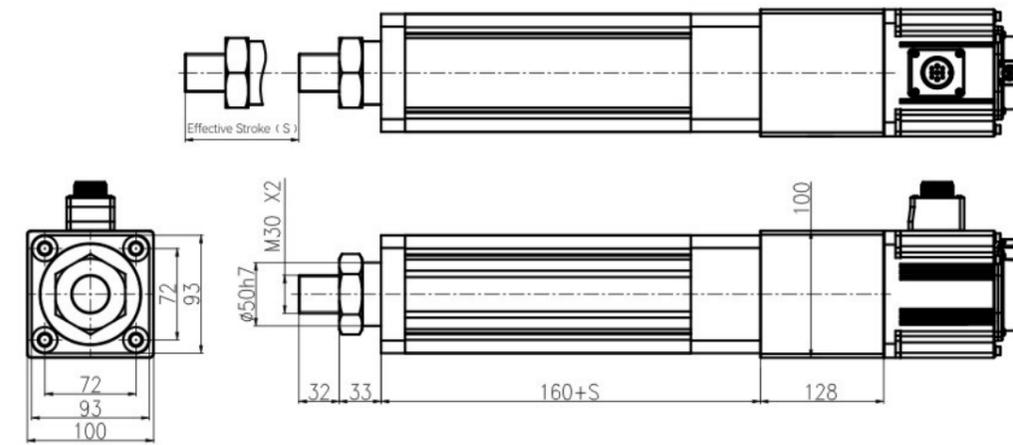


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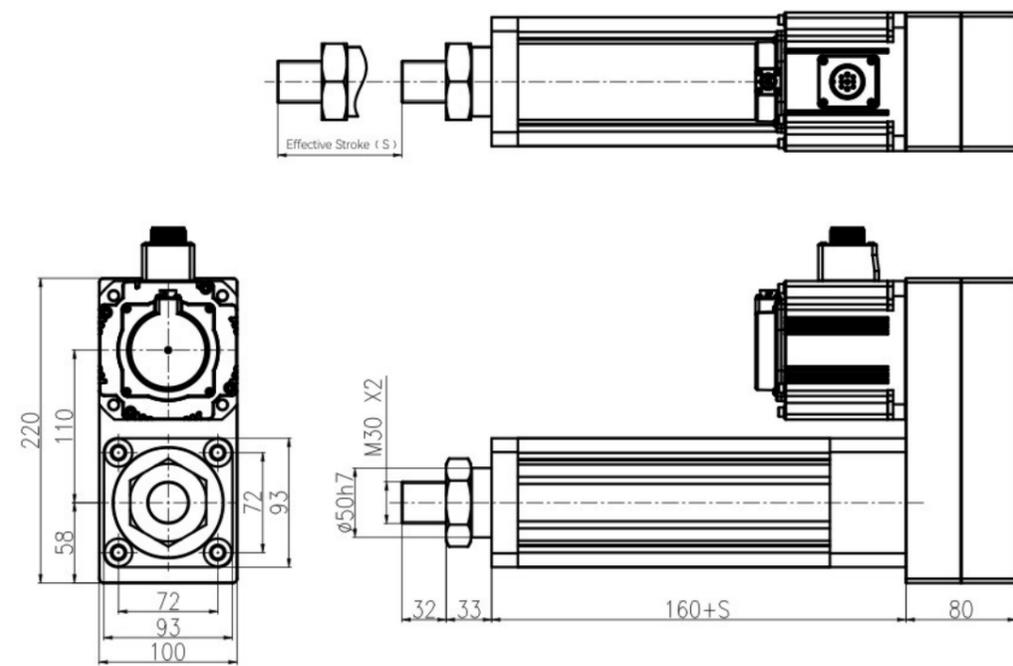


KGV-C-B100 Servo Electric Cylinder Figuration

Direct Coupling Type

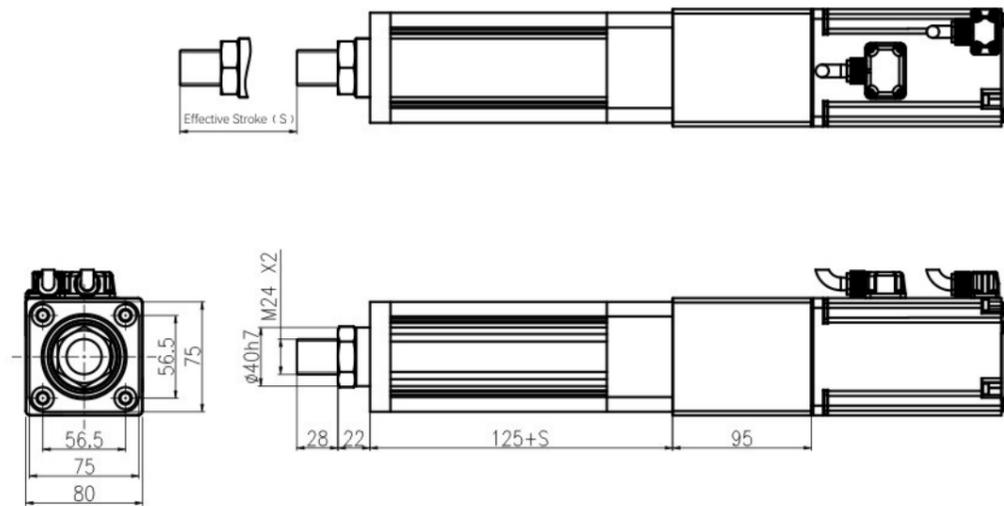


Return Type

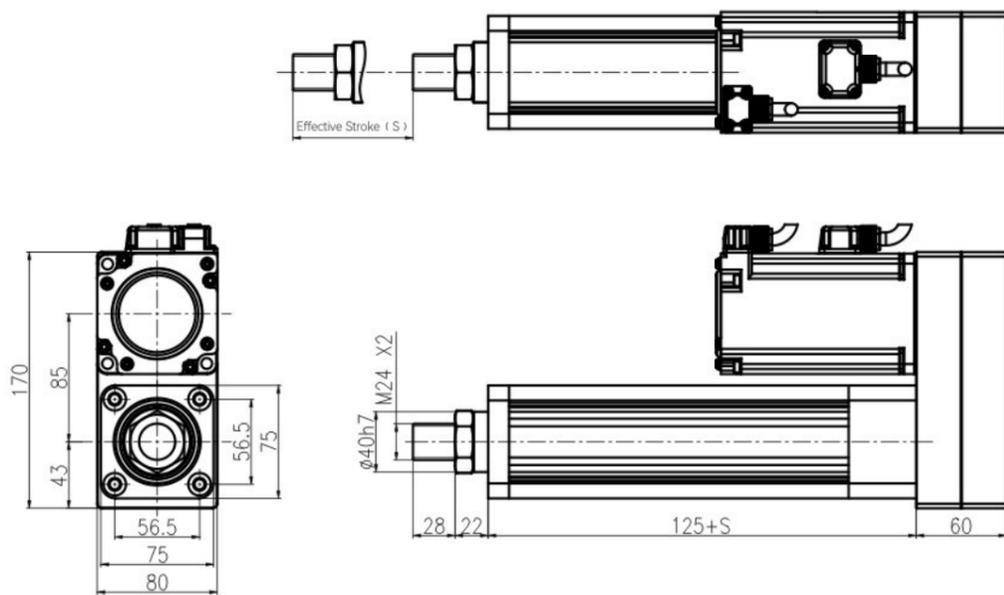


KGV-C-B80 Servo Electric Cylinder Figuration

Direct Coupling Type

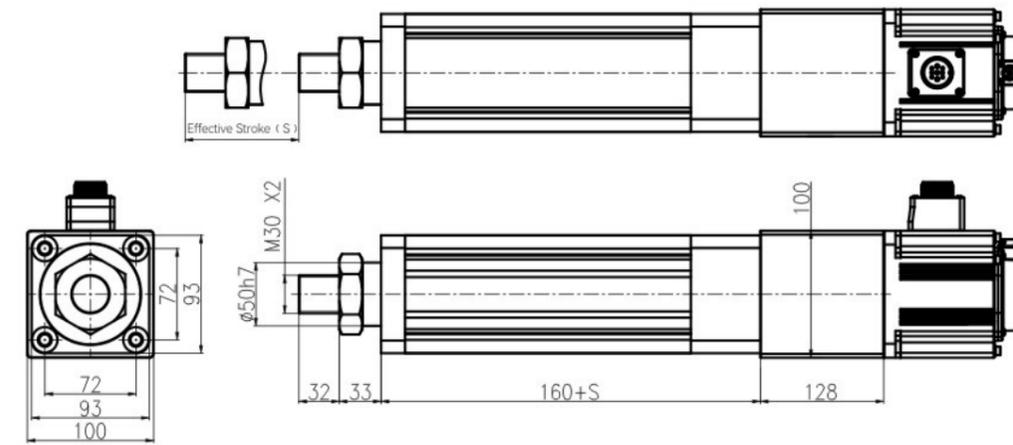


Return Type



KGV-C-B100 Servo Electric Cylinder Figuration

Direct Coupling Type



Return Type

