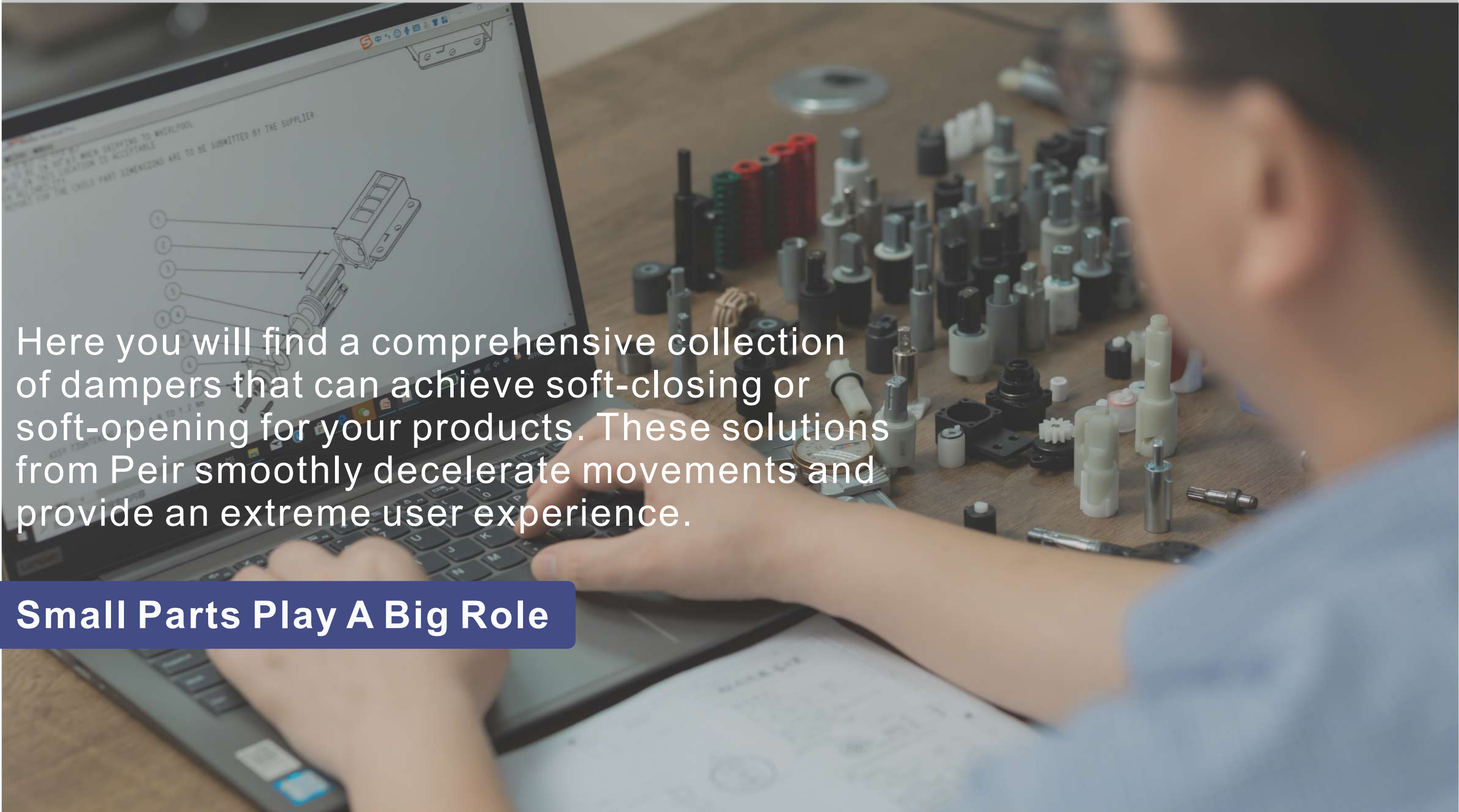


Rotary Dampers

Peir

A person is shown from the side, working at a desk. They are using a laptop which displays a technical drawing of a damper assembly with numbered callouts. On the desk in front of them is a large collection of various mechanical parts, including dampers, rollers, and gears, arranged in a somewhat organized manner. The person's hands are on the laptop keyboard.

Here you will find a comprehensive collection of dampers that can achieve soft-closing or soft-opening for your products. These solutions from Peir smoothly decelerate movements and provide an extreme user experience.

Small Parts Play A Big Role

PRODUCT FAMILIES



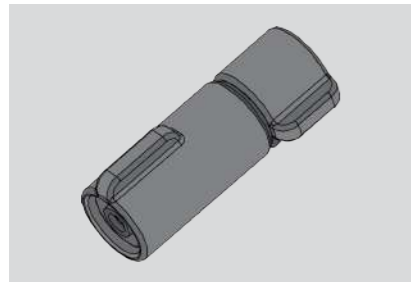
Vane Damper(Limited Angle & Infinite Angle)

Diameter 10 to 22mm
 Torque up to 90KGF.CM
 Max rotate angle: 360 degree
 One way or two way damping
 Lifecycles up to 30,000



Barrel Damper

Diameter 8 to 20mm
 Torque up to 23,000GF.CM
 Max rotate angle: 360 degree
 One Way or two way damping
 Lifecycles up to 60,000



Keeping Damper

Diameter 10mm to 16mm
 Torque up to 35KGF.CM
 Max angle 270°
 Two way damping
 Lifecycles up to 25,000



Spiral-linear Damper

Diameter 16mm to 21mm
 Torque up to 50KGF.CM
 Max angle 110°
 Two way damping
 Lifecycles up to 30, 000



Gear Damper

Diameter 10 to 25mm
 Torque up to 4500GF.CM
 Working angle: 360 degree
 One way or two way damping
 Lifecycles up to 60,000



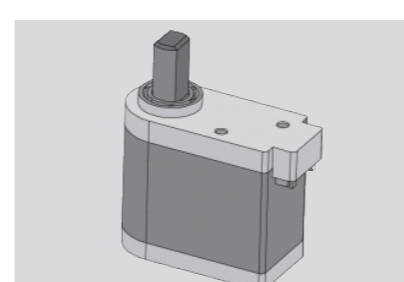
Disc Damper

Diameter 47 to 57mm
 Torque up to 6.0 Nm
 Max rotate angle: 360 degree
 One way or two way damping
 Lifecycles up to 50,000



Hydraulic Damper

20-35KG rotating body
 Max angle 150°
 One way damping

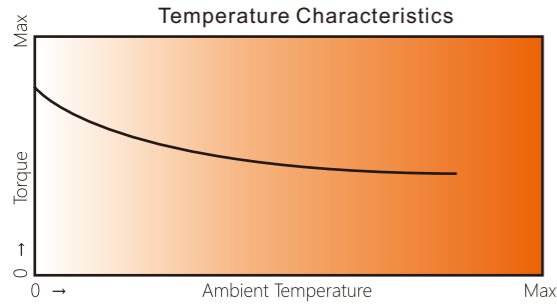


Driving Motor

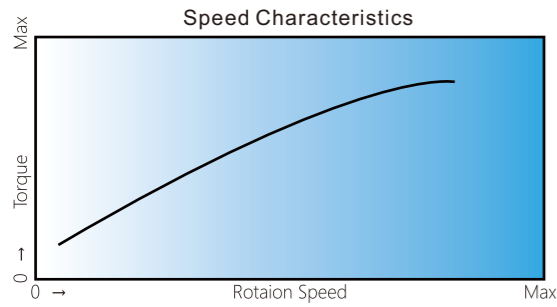
Diameter 28mm
 Torque up to 50KGF.CM
 Max angle 125°
 Lifecycles up to 11,000



Rotary Damper Temperature & Speed Characteristics



Temperature Characteristics
The torque of the rotary damper varies inversely with temperature. It decreases at higher temperatures and increases at lower temperatures. Upon returning to normal temperature, the damper's characteristics will also return to normal.



Speed Characteristics
The torque of the rotary damper varies according to rpm. In general, if the rpm goes up, the torque increases; if the rpm goes down, the torque decreases. In addition, please note that the starting torque slightly differs from the rated torque. (The torque value indicated in the product data is measured at the rotation speed of 20r/min)

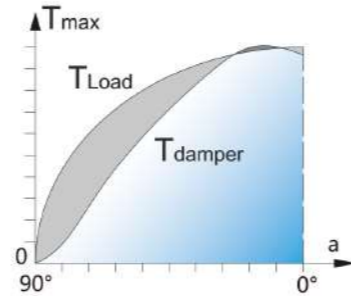
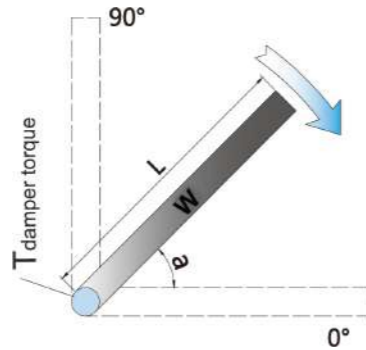
Torque calculation in different scenarios

1. Controlled slow closing down. (From 90° - 0°)

As shown in the figure on the right, the lid closes down from less than 90 degrees to the horizontal position.

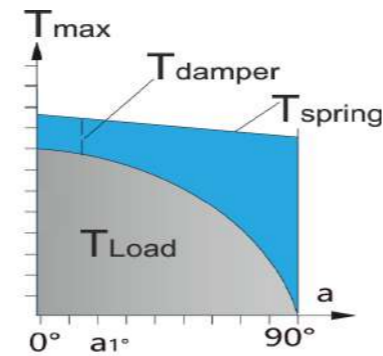
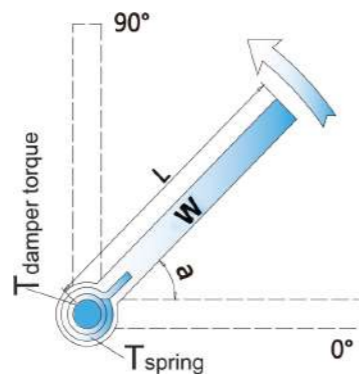
$$T = (W * g) * (L/2) * (\cos a)$$

Example:
W=2KG, L=300mm
 $T_{max} = (2 * 9.8) * (0.3/2) = 2.94 \text{ Nm}$
 $T_{damper} = 0 - 3.0 \text{ Nm}$

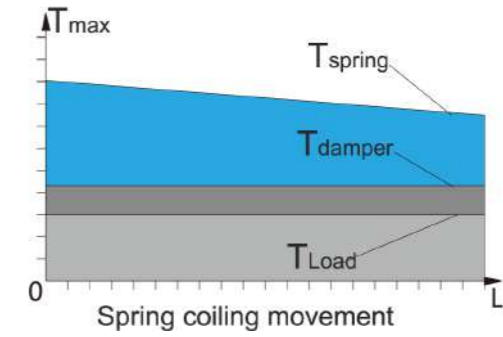


2. Damper and springs achieve soft opening. (0° ~ 90°)

As the right picture shows, the lid open along the axis when the spring exerts force on it. The graph below shows the relation among spring force T, gravity of flat W and the resistance of rotation of damper:



Example:
W=1 KG, L=200mm
 $T_{load} = 1 * 9.8 * (0.2/2) = 0.98 \text{ Nm}$
 $T_{spring} = 1.2 \sim 0.5 \text{ Nm}$
 $T_{damper} \leq T_{spring} - T_{load}$
 $= (1.2 - 0.98) \text{ Nm} \sim (0.5 - 0) \text{ Nm}$
 $= 0.22 \sim 0.5 \text{ Nm}$



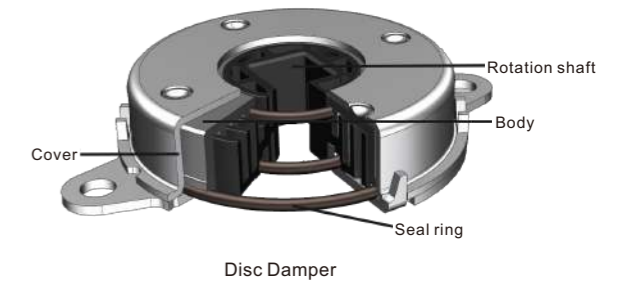
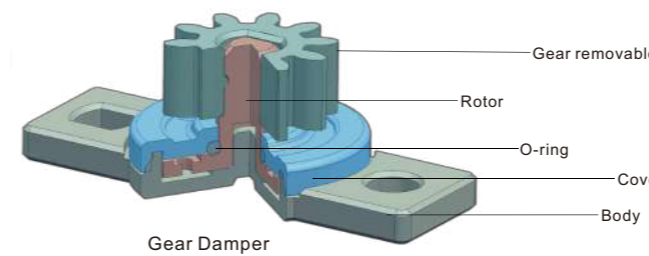
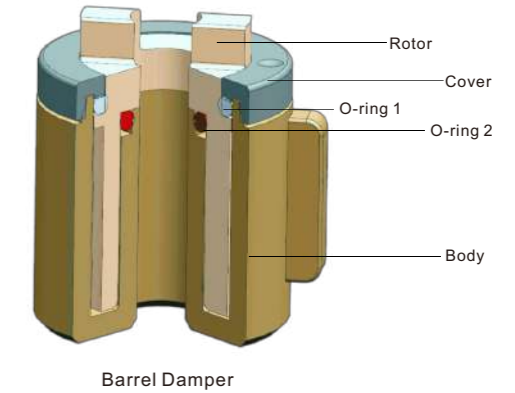
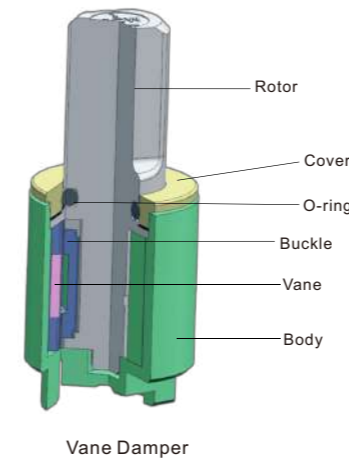
Note:

T: Torque.

L/2: 1/2 the length of the lid from the pivot to the end (Center of gravity).

W: Actual weight of lid.

a: Max angle between the lid and horizontal position.



Application



BMW 535Li Central Double Armrest
(Barrel Damper)



Range Rover EVOQUE sunglass Case
(Gear Damper&Push Latch)



Cinema Seats



Hidden socket



Coffee machine



EV charger

Refrigerator



Auto Interior
(Handle, Sunglass box...)



Kettle



Piano cover



Car Refrigerator



Rice cooker



Sanitary



Trash can

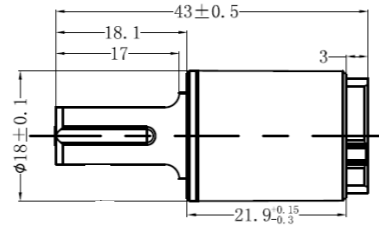
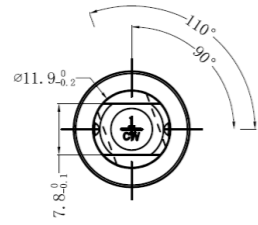


Washing machine

Printer

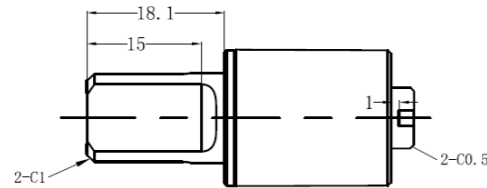
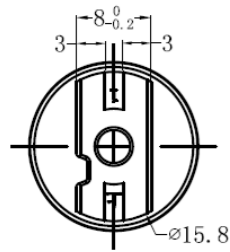


PR-T095A-One way (Φ18mm)

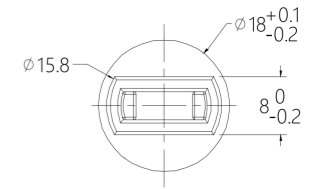
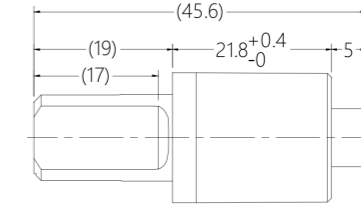
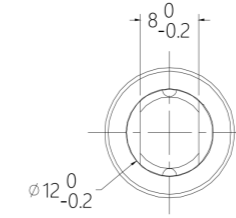
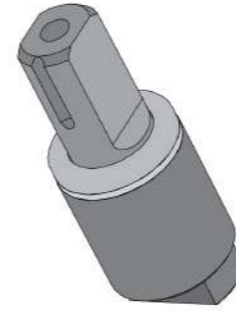


Torque	5-30KGF.CM
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Working Angle	110°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Body Material	PBT/ PA66
Shaft Material	PA66/ Zinc Alloy
Oil	Silicone Oil



JP-DN18A-One way(Φ18mm)



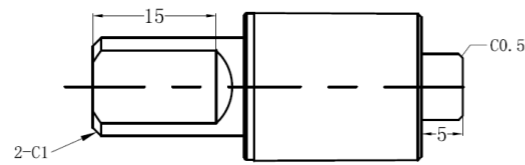
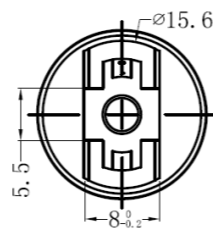
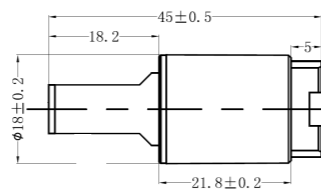
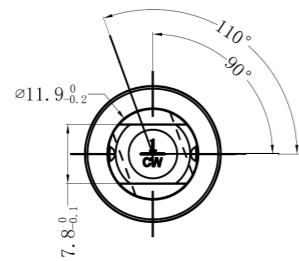
Torque	8-25 KGF.CM
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Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-20°C - 80°C	-10°C - 50°C	PBT	PA	Silicone Oil

Remarks:

Compared with DN18A, the body length of DN18Q is 19.8mm, and the shaft length is 21mm.

PR-T095C-One way (Φ18mm)



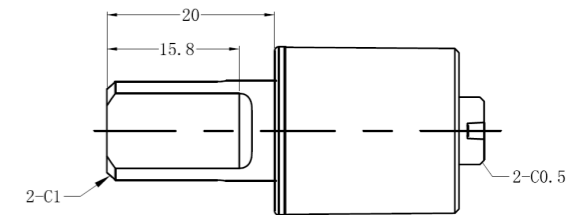
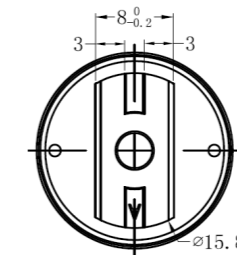
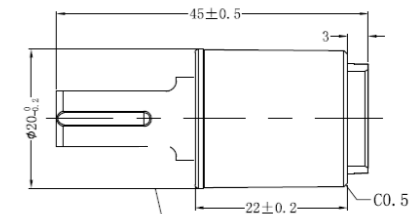
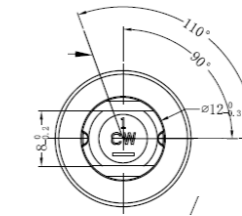
Torque	5-45 KGF.CM
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Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-5°C - 50°C	PBT/ PA66	PA66/ Zinc Alloy	Silicone Oil

Remarks:

Compared with T095C, T095F is different in working angle 0-180°; T095M is of shaft diameter 7.8±0.1mm.

PR-T098D-One way(Φ20mm)



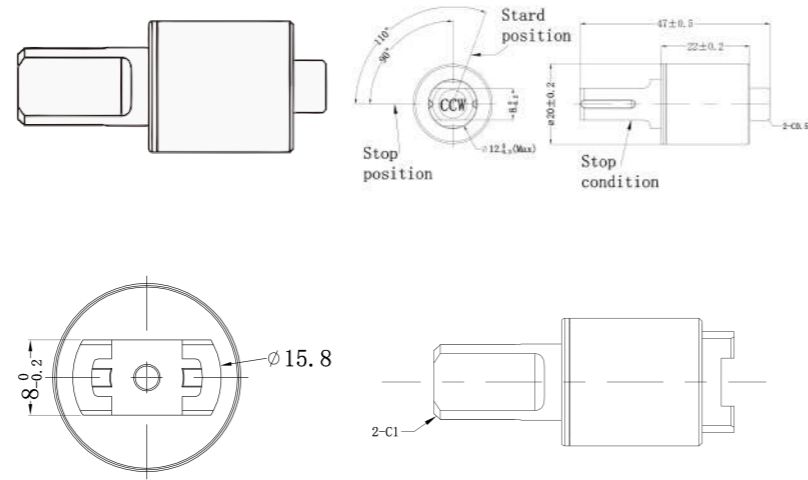
Torque	8-55 KGF.CM
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Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-5°C - 50°C	PBT/ PA66	PA66/ Zinc Alloy	Silicone Oil

Remarks:

Compared with T098D, the body diameter of T098A is 19.6mm. The end attachment of T098C is 5mm in height.

PR-T098E-One way(Φ20mm)

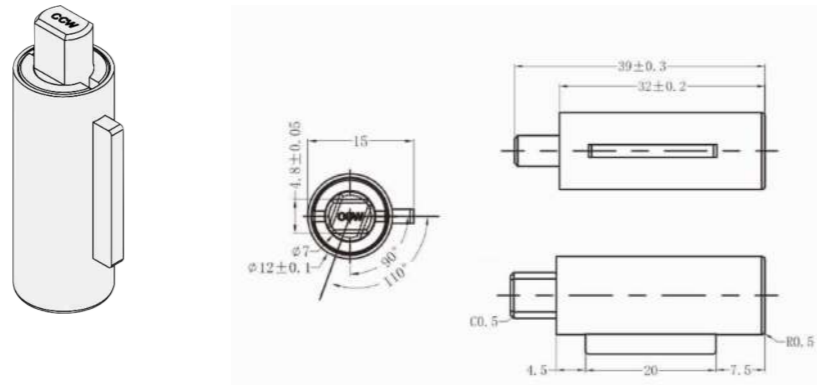


Torque

8-55 KGf.cm

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-5°C - 50°C	PA66	PA66/ Zinc Alloy	Silicone Oil

PR-T099A-One way (Φ12mm)

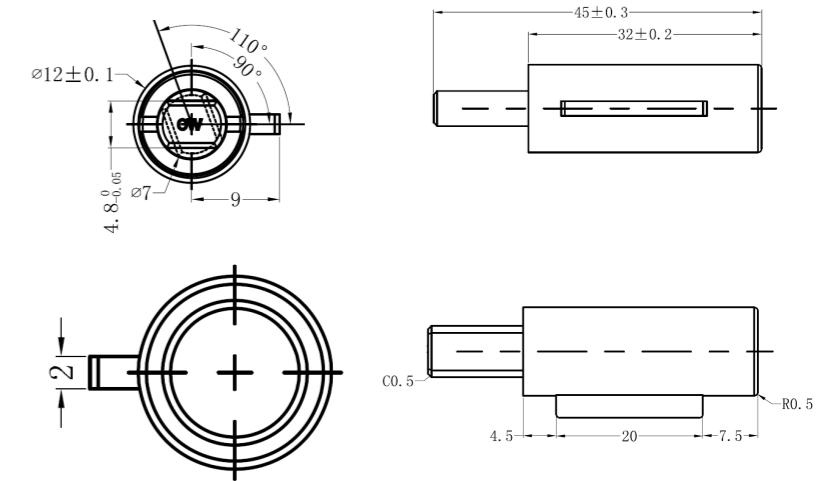


Torque

6-30 KGf.cm

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-20°C - 80°C	Zinc Alloy	Zinc Alloy	Silicone Oil

PR-T099C-One way (Φ12mm)



Torque

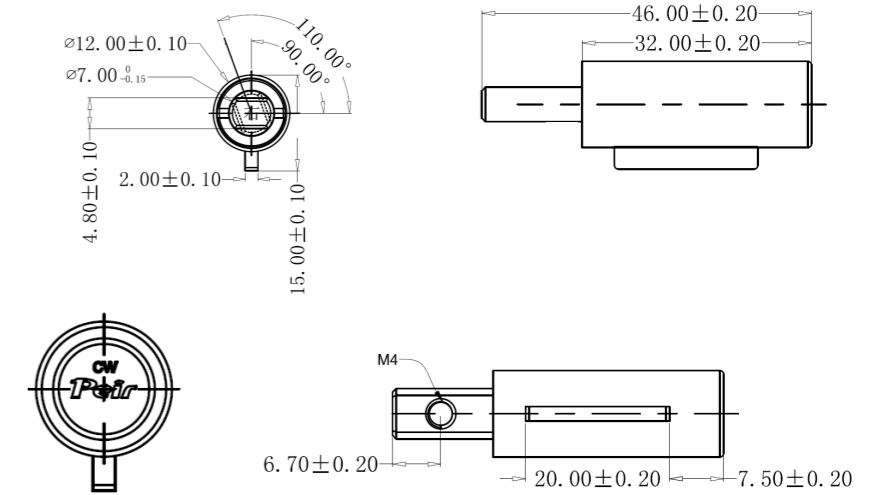
10-30 KGf.cm

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-20°C - 80°C	Zinc Alloy	Zinc Alloy	Silicone Oil

Remarks:

Compared with T099C, the shaft of T099A is shorter, 7mm in length; T099Q is based on C, only special with R angle on rib.

PR-T099E-One way (Φ12mm)



Torque

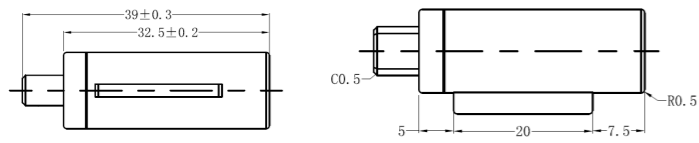
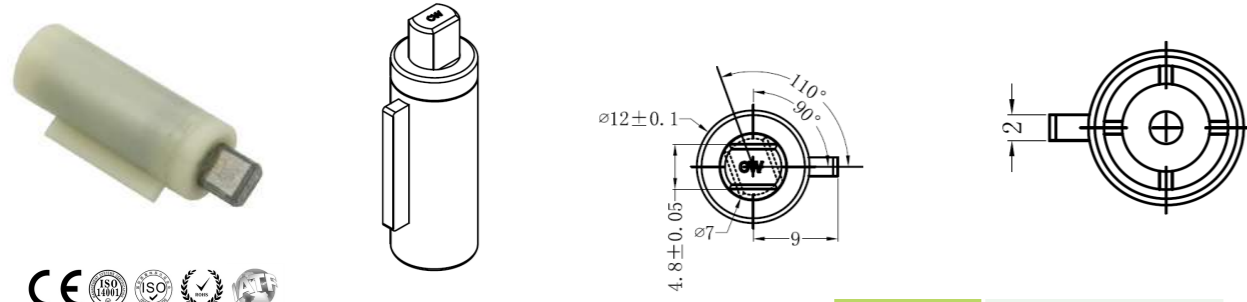
10-40 KGf.cm

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-20°C - 80°C	Zinc Alloy	Zinc Alloy	Silicone Oil

Remarks:

Compared with T099E, the shaft length of T099D is different, with size 12±0.2mm; T099N is different in working angle, 0-100°; T099R is different in the position of threaded hole.

PR-T099B-One way (Φ12mm)

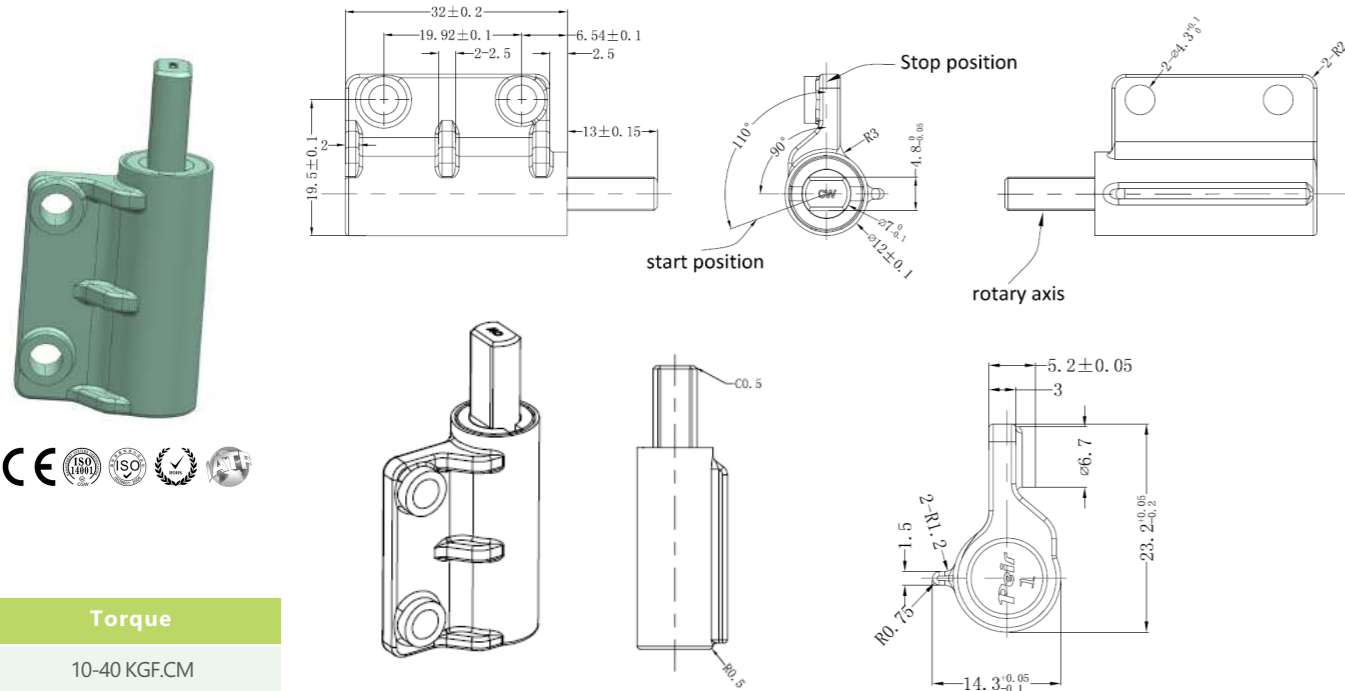


Torque	3-15KGF.CM
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Working Angle	110°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Body Material	PA66
Shaft Material	Zinc Alloy
Oil	Silicone Oil

Remarks:
Compared with T099B, shaft length of T099X is 10mm, the torque is 3-20KGF.CM.

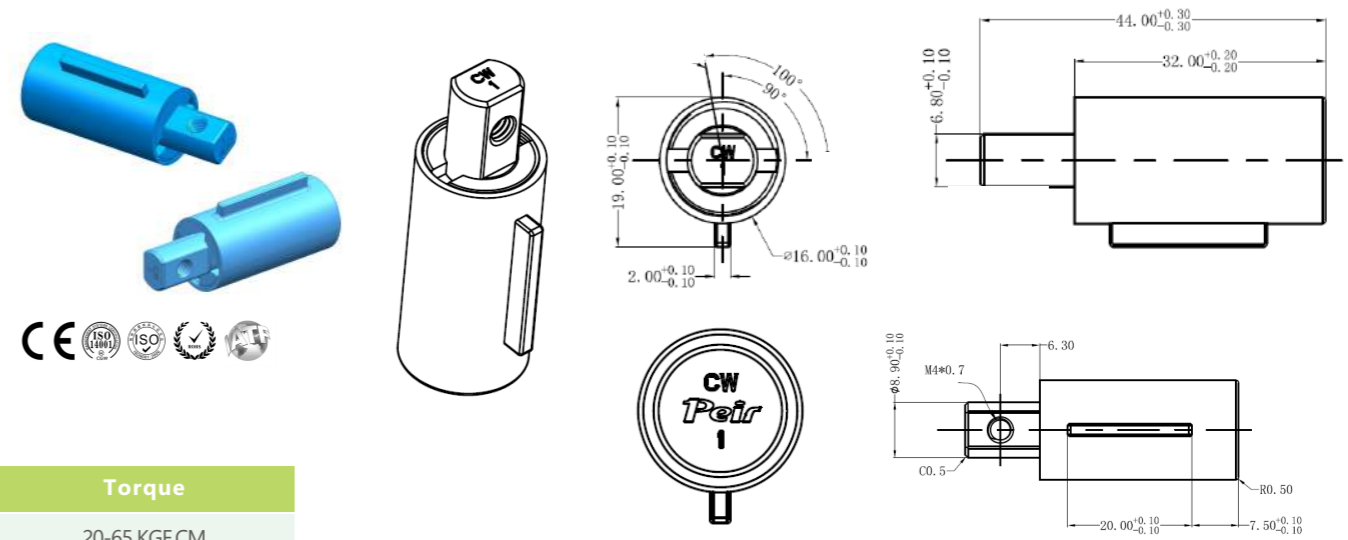
PR-T099W-One way (Φ12mm)



Torque	10-40 KGF.CM
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Working Angle	110°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-20°C - 80°C
Body Material	Zinc Alloy
Shaft Material	Zinc Alloy
Oil	Silicone Oil

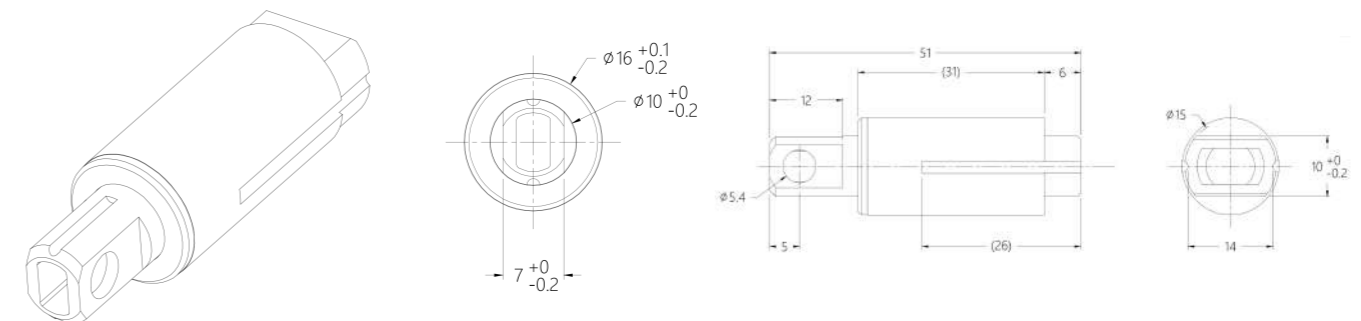
PR-T099M-One way (Φ16mm)



Torque	20-65 KGF.CM
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Working Angle	100°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-20°C - 80°C
Body Material	Zinc Alloy
Shaft Material	Zinc Alloy
Oil	Silicone Oil

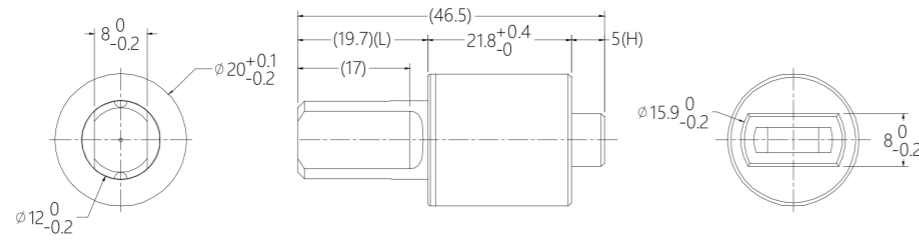
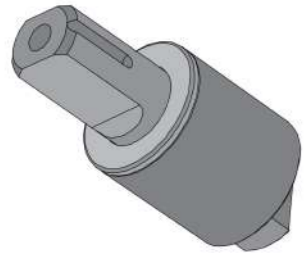
JP-DN16A-One way (Φ16mm)



Torque	10-25 KGF.CM
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Working Angle	110°
Static Storage Temperature	-20°C - 60°C
Dynamic Working Temperature	-5°C - 40°C
Body Material	PBT
Shaft Material	Zinc Alloy
Oil	Silicone Oil

JP-DN20A-One way (Φ20mm)

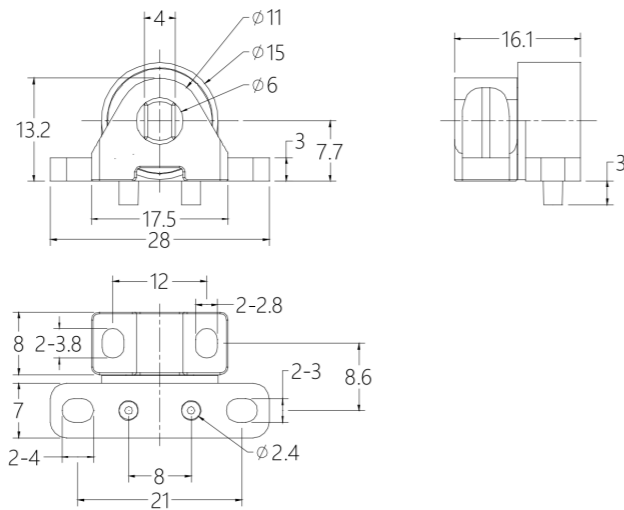
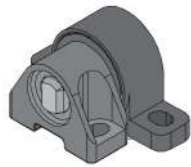


Torque
8-30 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-20°C - 80°C	-10°C-50°C	PBT	PA	Silicone Oil

Remarks:
Compared with DN20E, the bottom length of DN20S is 3mm. DN20B has higher torque 20-40KGF.CM with zinc alloy shaft.

JP-DP15A-Two way (Φ15mm)



Torque
2-6 KGF.CM

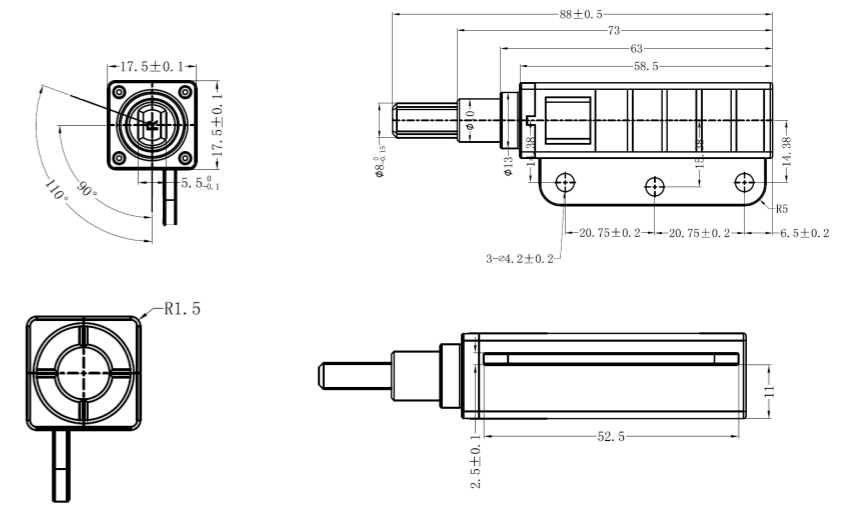
Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
100°	-20°C - 80°C	-10°C-50°C	PBT	PA	Silicone Oil

PR-T118D-One way (17.5*17.5mm)



Torque
10-50 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-5°C - 50°C	PA66 - GF40	Zinc Alloy	Silicone Oil

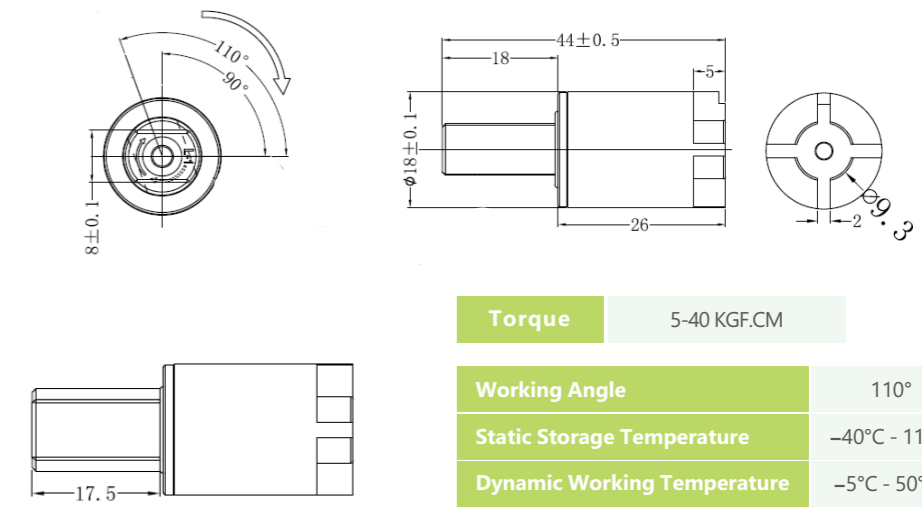


PR-T086A-One way (Φ18mm)

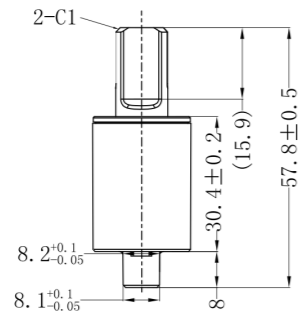
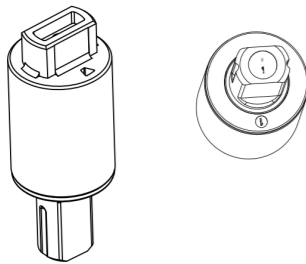
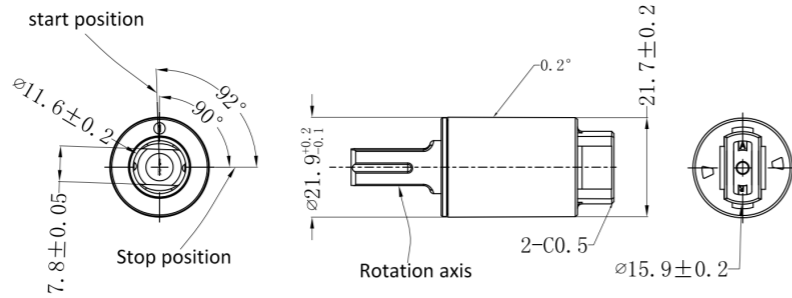


Torque
5-40 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-40°C - 110°C	-5°C - 50°C	PBT	Zinc Alloy	Silicone Oil

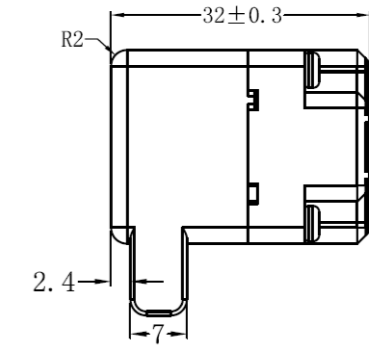
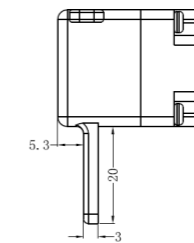
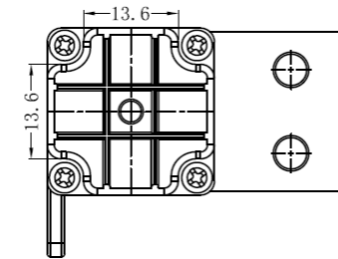
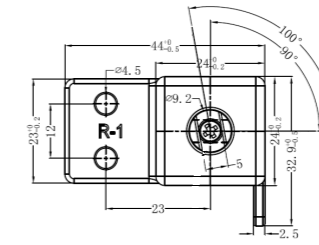


PR-T097A-One way (Φ21.9mm)



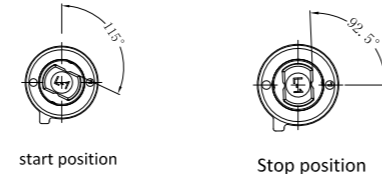
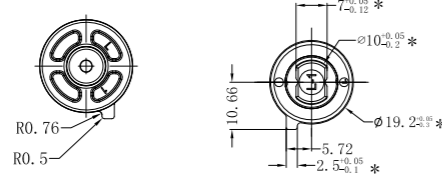
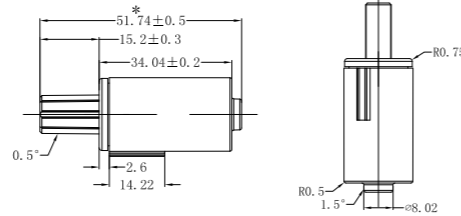
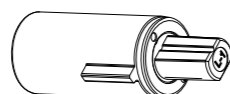
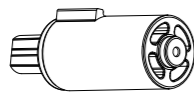
Torque	20-90 KGF.CM
Working Angle	92°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Body Material	PA66
Shaft Material	Zinc Alloy
Oil	Silicone Oil

PR-T093A-One way (24*44mm)



Torque	10-25 KGF.CM
Working Angle	100°
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Body Material	PA66
Shaft Material	PA66
Oil	Silicone Oil

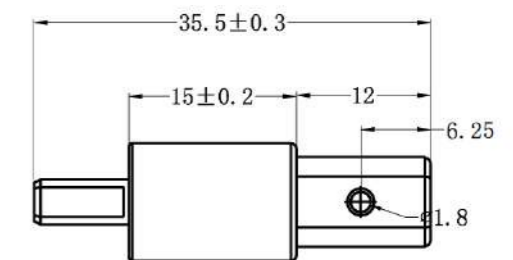
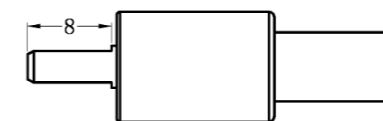
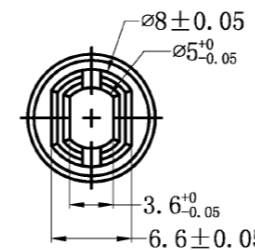
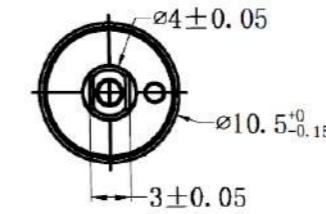
PR-T083A-One way (Φ19.2mm)



Torque	5-40 KGF.CM
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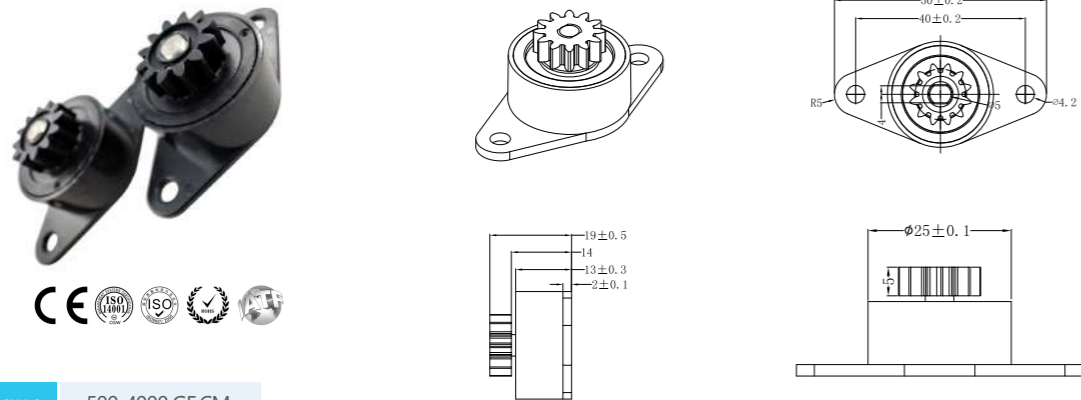
Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
115°	-40°C - 110°C	-5°C - 50°C	PA66-GF	Zinc Alloy	Silicone Oil

PR-T60-One way (Φ10.5mm)



Torque	60-300 GF.CM
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Body Material	PC
Shaft Material	POM
Oil	Silicone Oil

PR-T068A-One/Two way (Φ25mm)



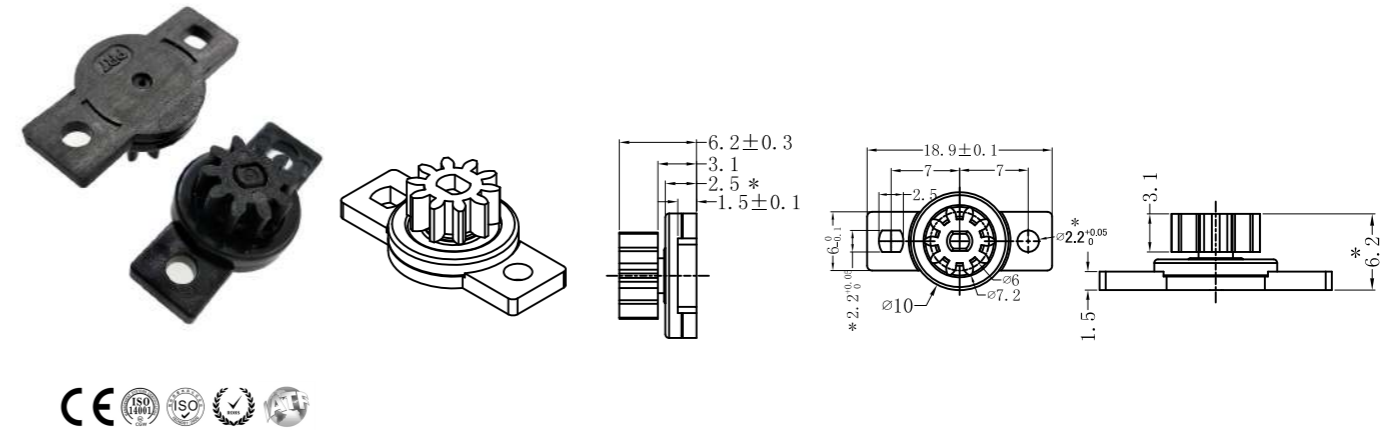
Torque 500-4000 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM/Stainless steel	Silicone Oil

External Diameter	Dividing Dia	Gear No	Pressure Angle
14.75	12	12	20°

Remarks:
Gears are alternative. T068A is unidirectional while T068B bidirectional.

PR-T002A-Two way (Φ10mm)



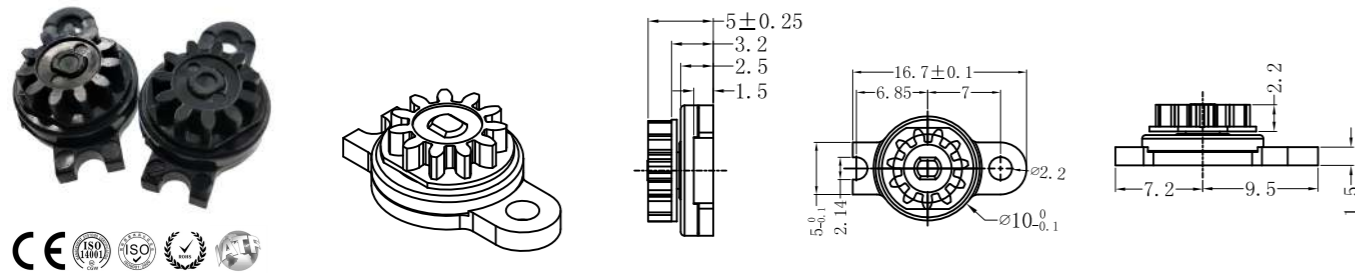
Torque 20-100 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Gear Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	POM	Silicone Oil

External Diameter	Dividing Dia	Gear No	Modulus	Pressure Angle
7.2	6	10	0.6	20°

Remarks: T002B has no gear.
Gears are alternative.

PR-T001A-Two way (Φ10mm)



Torque 20-135 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Gear Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	POM	Silicone Oil

External Diameter	Dividing Dia	Gear No	Modulus	Pressure Angle
7.8	6.6	11	0.6	20°

Remarks:
T001B has no gear. Gears are alternative.

PR-T009C-Two way (Φ15mm)



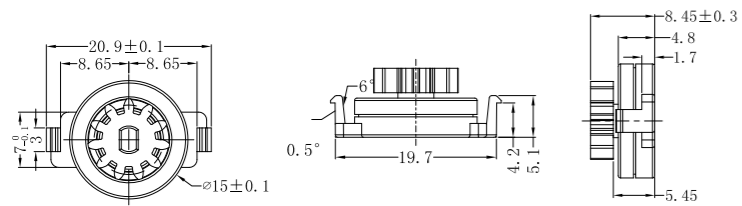
Torque 20-300 GF.CM

Static Storage Temperature	-40°C-110°C
Dynamic Working Temperature	-5°C-50°C
Body Material	PC
Shaft Material	POM
Gear Material	POM
Oil	Silicone Oil

External Diameter	10.4
Dividing Dia	8.8
Gear No	11
Modulus	0.8
Pressure Angle	20°

Remarks:
Compared with 009, T009D is gearless.

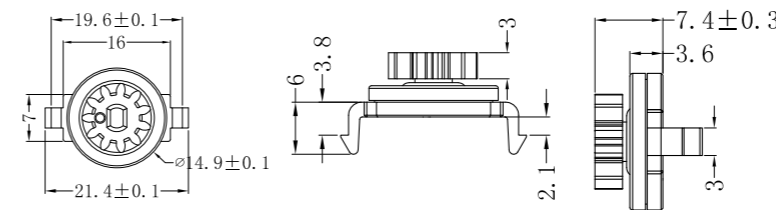
PR-T033-Two way (Φ15mm)



Torque	30-450 GF.CM
Static Storage Temperature	-40°C-110°C
Dynamic Working Temperature	-5°C-50°C
Body Material	PC
Shaft Material	POM
Gear Material	POM
Oil	Silicone Oil

External Diameter	10.4
Dividing Dia	8.8
Gear No	11
Modulus	0.8
Pressure Angle	20°

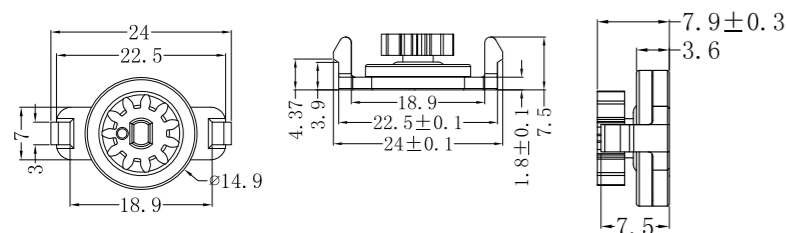
PR-T036-Two way (Φ14.9mm)



Torque	30-300 GF.CM
Static Storage Temperature	-40°C-110°C
Dynamic Working Temperature	-5°C-50°C
Body Material	PC
Shaft Material	POM
Gear Material	POM
Oil	Silicone Oil

External Diameter	10.4
Dividing Dia	8.8
Gear No	11
Modulus	0.8
Pressure Angle	20°

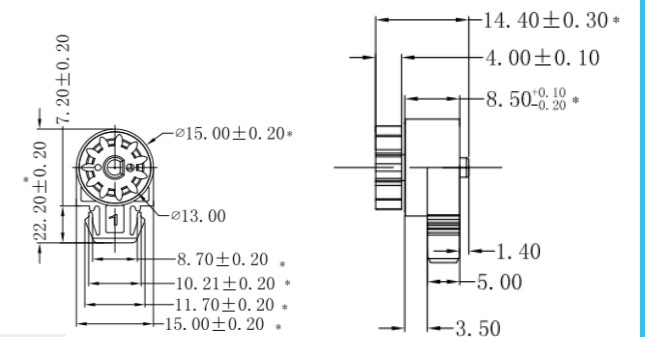
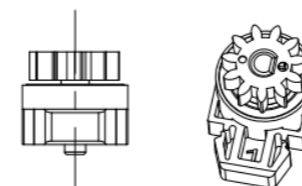
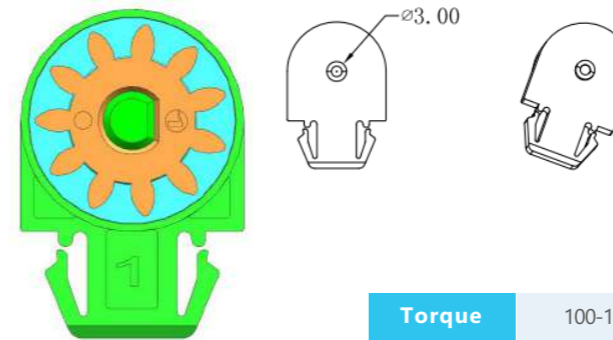
PR-T035-Two way (Φ14.9mm)



Torque	30-300 GF.CM
Static Storage Temperature	-40°C-110°C
Dynamic Working Temperature	-5°C-50°C
Body Material	PC
Shaft Material	POM
Oil	Silicone Oil

External Diameter	10.4
Dividing Dia	8.8
Gear No	11
Modulus	0.8
Pressure Angle	20°

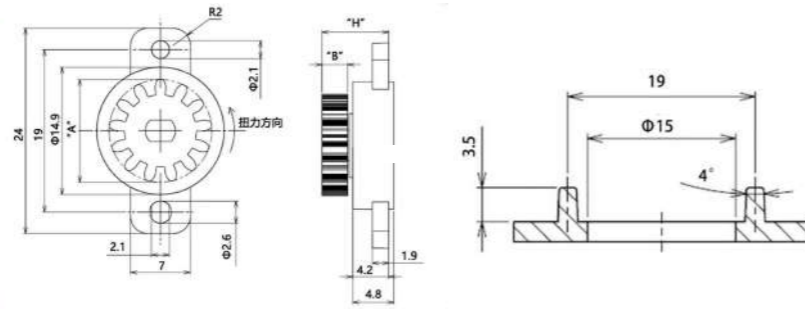
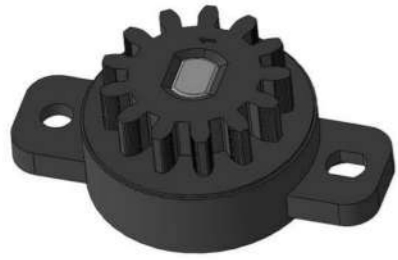
PR-T089A-One/Two way (Φ15mm)



Torque	100-1200 GF.CM
Static Storage Temperature	-40°C - 110°C
Dynamic Working Temperature	-5°C - 50°C
Oil	Silicone Oil
Body Material	PC
Shaft Material	POM
Gear Material	POM

External Diameter	13
Dividing Dia	11
Gear No	11
Modulus	1.0
Pressure Angle	20°

JP-D01023-One way (Φ14.9mm)

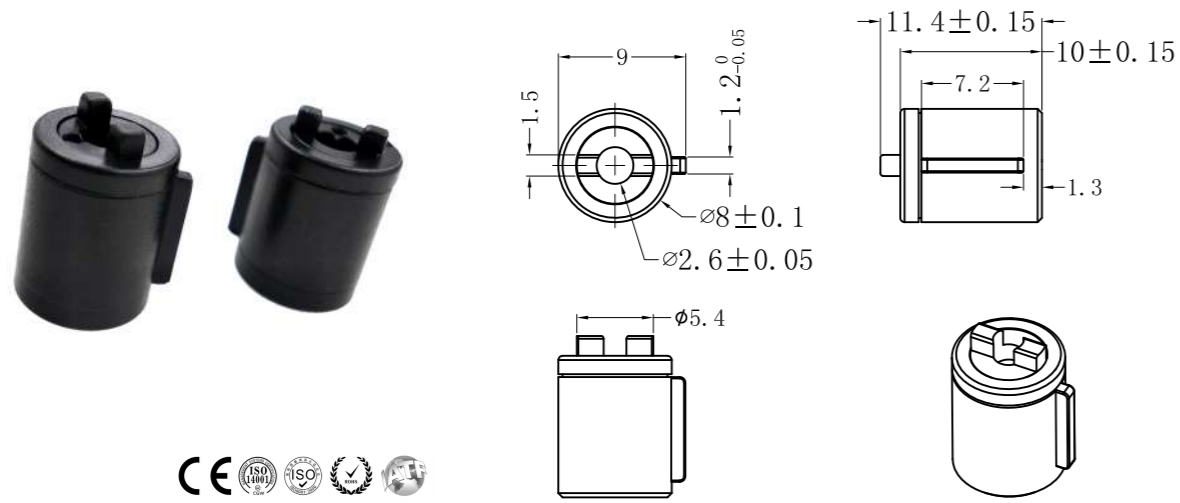


Torque 1N.cm-4N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Gear Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	POM	Silicone Oil

External Diameter	Modulus	Gear No	Pressure Angle	Gear Height "B"	Total Height "H"
Φ9.6-14	0.8	10/11/13/16	20°	3/3.6/4.5	7.7/8.3/9.2

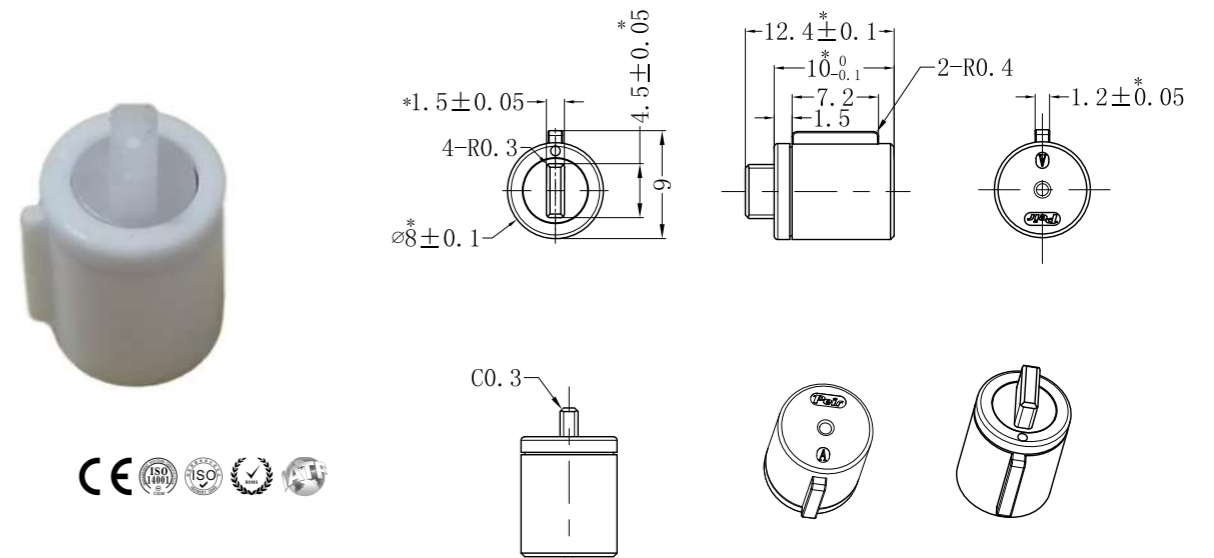
PR-T026C-Two way (Φ8mm)



Torque 50-220 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

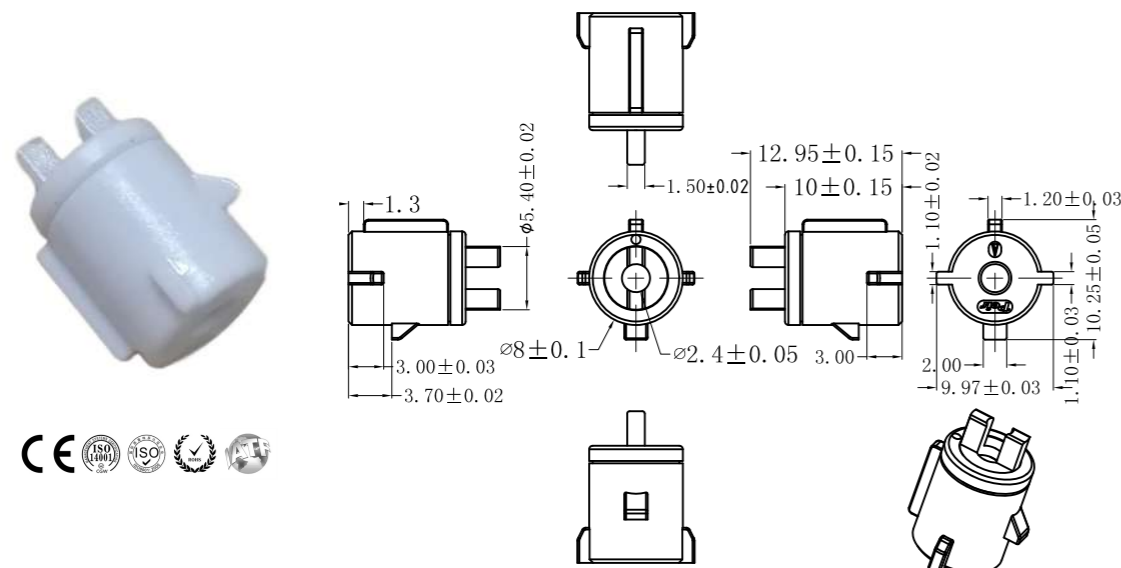
PR-T026F-Two way (Φ8mm)



Torque 50-220 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

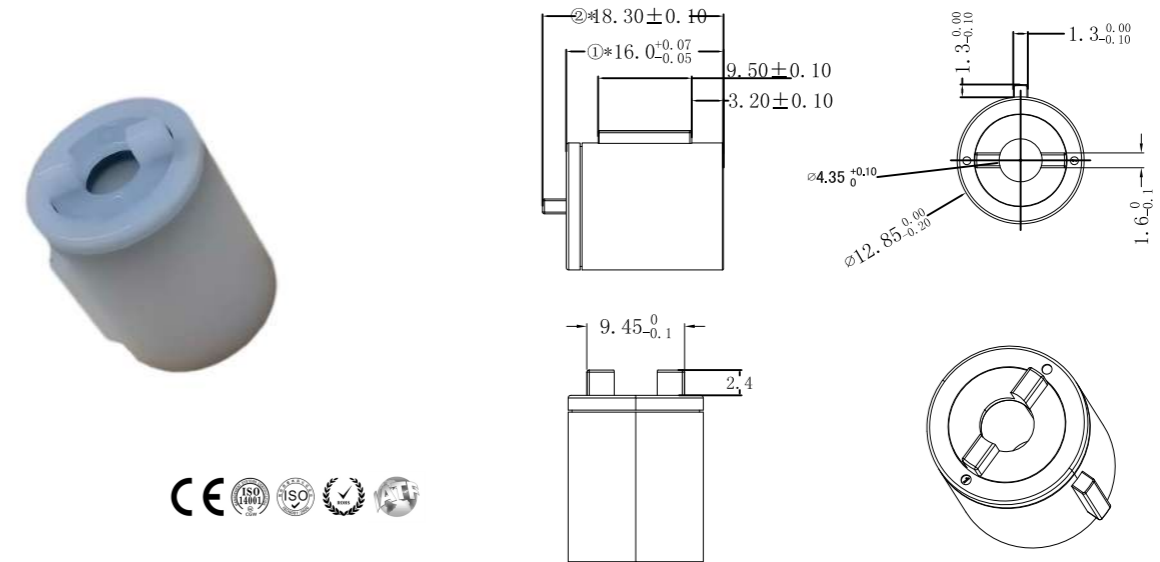
PR-T026D-Two way (Φ8mm)



Torque 50-220 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

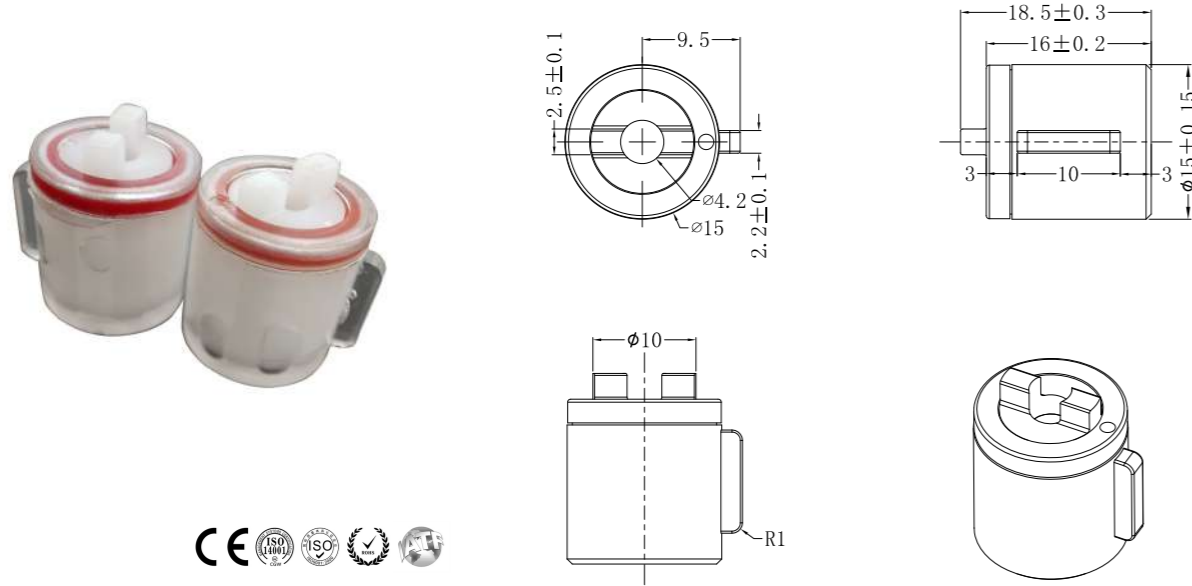
PR-T027A-Two way (Φ12.85mm)



Torque 200-2200 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	POM	POM	Silicone Oil

PR-T028-Two way (Φ15mm)



Torque 300-3500 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

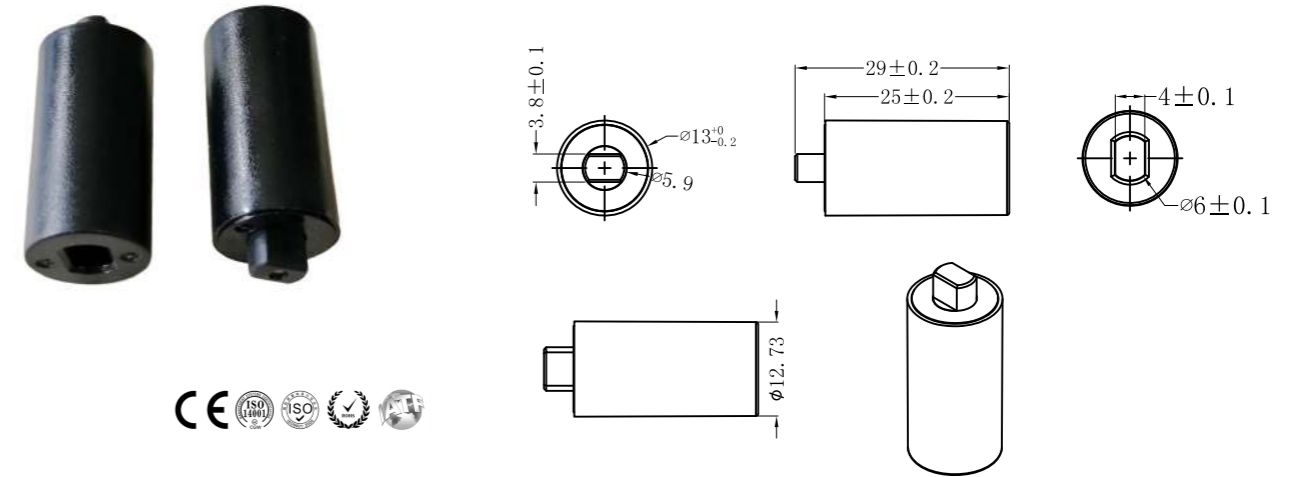
PR-T029-Two way (Φ14mm)



Torque 300-2500 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

PR-T080A-Two way (Φ13mm)



Torque 500-4000 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-110°C	-5°C-50°C	PC	POM	Silicone Oil

Remarks:
Compared with T080A, the shaft length of T080B is 5mm.

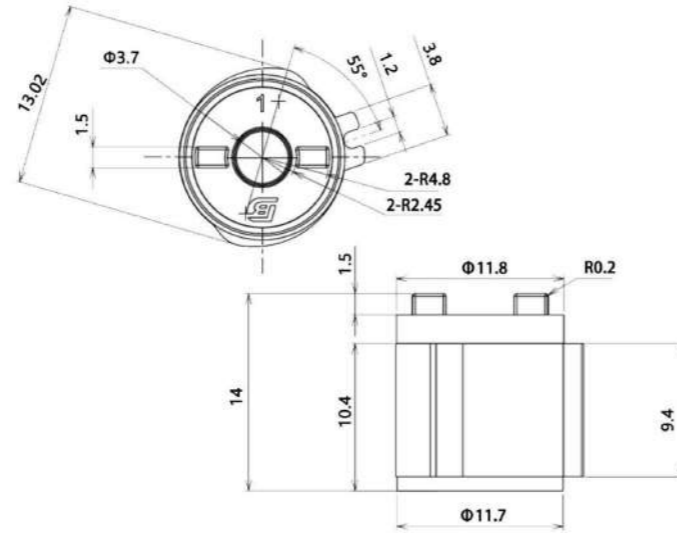
JP-D02013-Two way(Φ10mm)



Torque at 20rpm 1.5-3.75 Ncm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

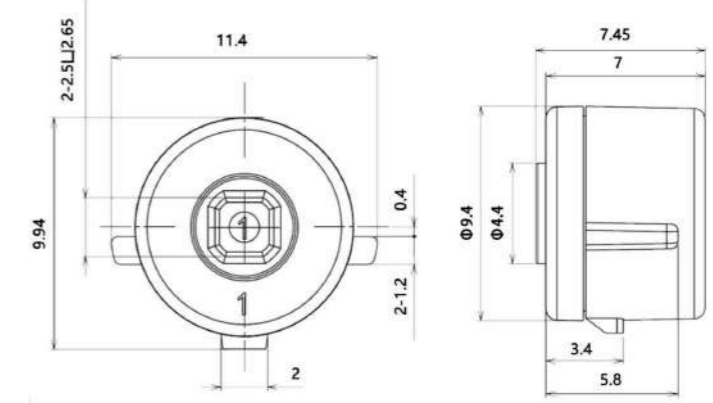
JP-D02018-Two way(Φ 11.8mm)



Torque at 20rpm 6N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

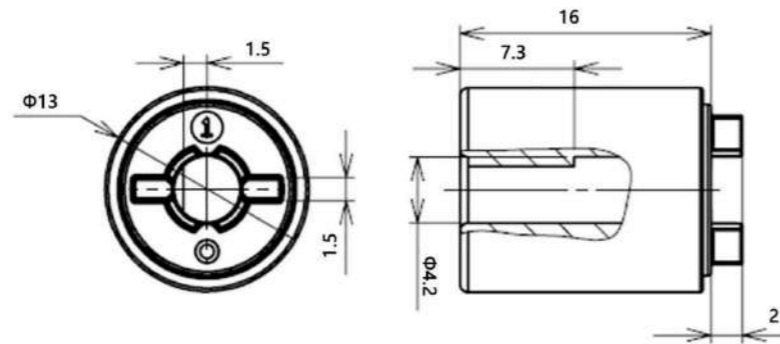
JP-D02019-Two way(Φ 9.4mm)



Torque at 20rpm 1.5N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

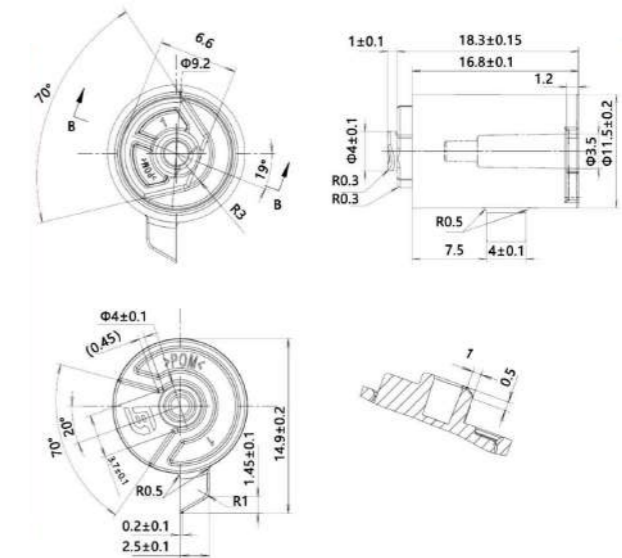
JP-D02012-Two way(Φ 13mm)



Torque at 20rpm 5N.cm-11N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

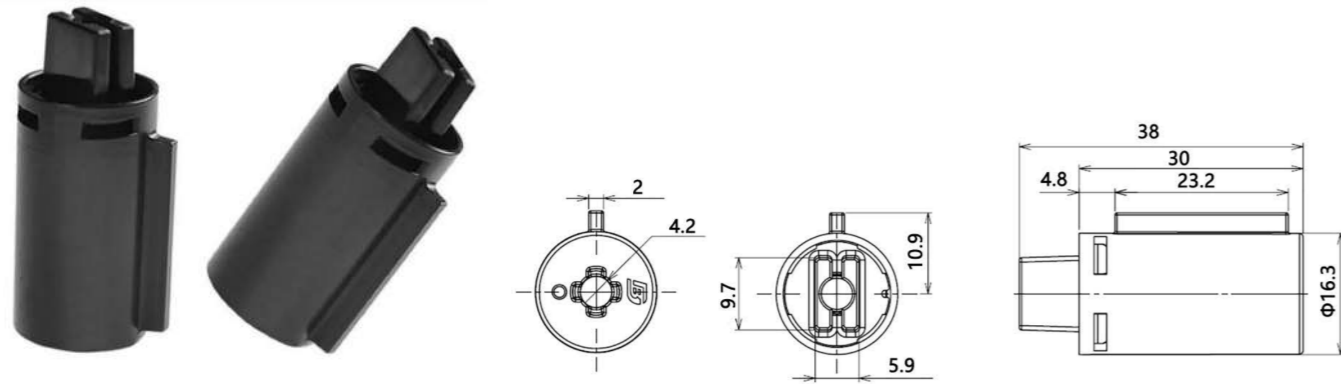
JP-D02016-Two way(Φ 9.2mm)



Torque at 20rpm 5-11N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

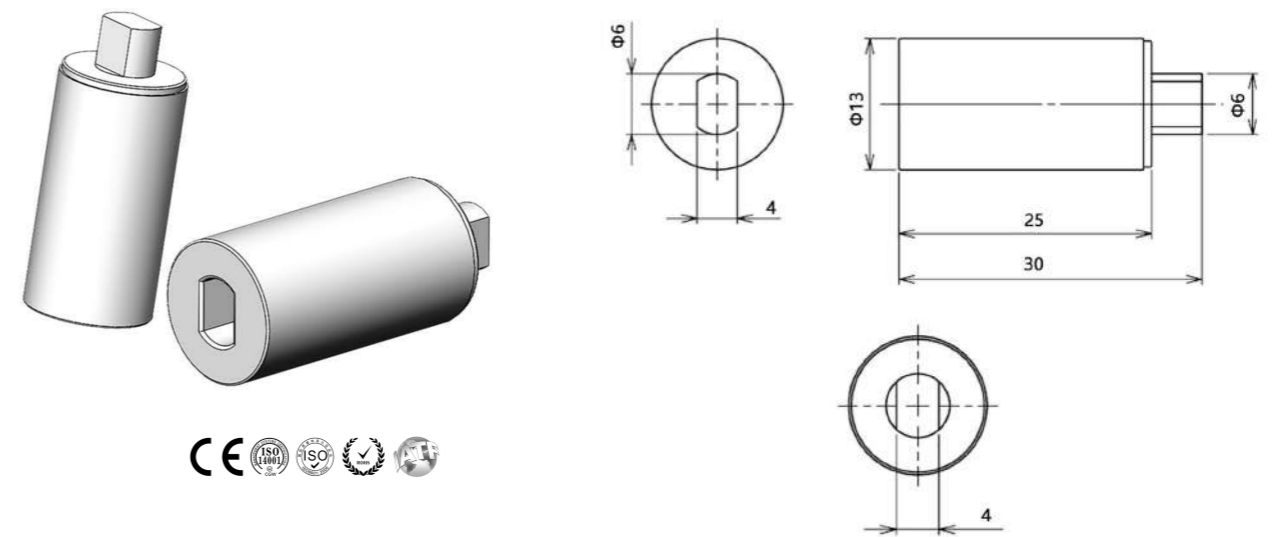
JP-D0200401-Two way(Φ16.3mm)



Torque at 20rpm 15±3N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

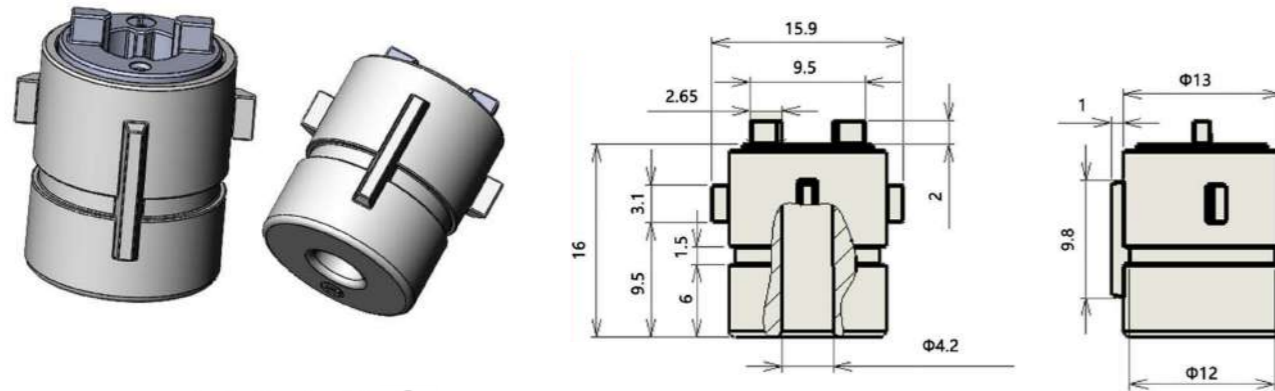
JP-D0200101-Two way(Φ13mm)



Torque at 20rpm 10-35N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	PC	POM	Silicone Oil

JP-D0201001J-Two way(Φ13mm)



Torque at 20rpm 5-11N.cm

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-30°C-90°C	-5°C-50°C	POM	POM	Silicone Oil

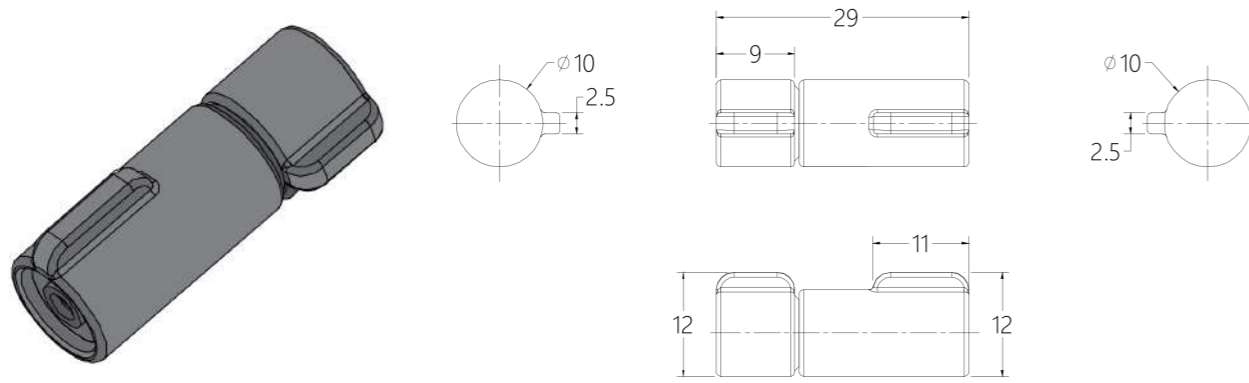
JP-DY08A-Two way(Φ 8mm)



Torque 100-300 GF.CM

Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
-40°C-80°C	-5°C-50°C	PBT+GF	POM	Silicone Oil

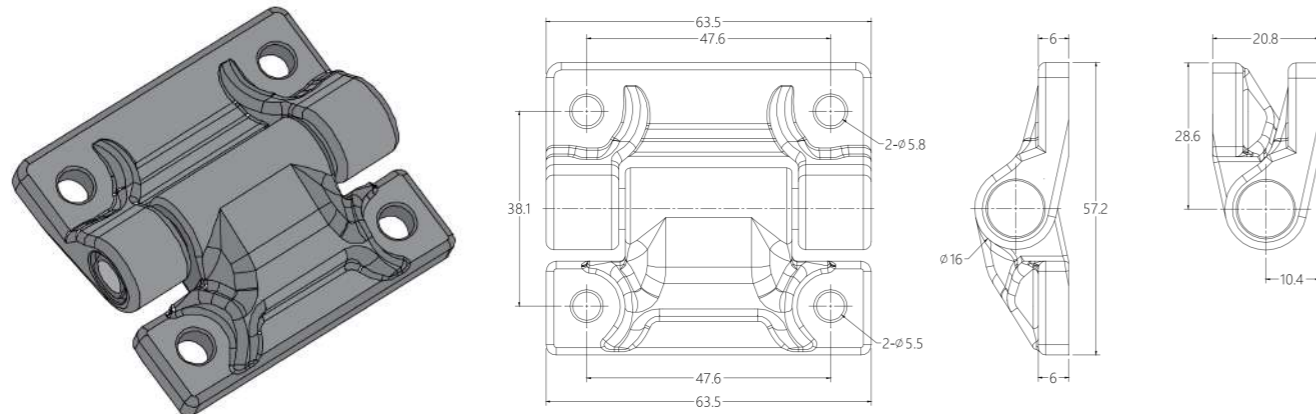
JP-TD10A-Two way (Φ10mm)



Torque 5 -10 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
270°C	-20°C-80°C	-10°C-50°C	PBT	PA	Silicone Oil

JP-TD16H-Two way (Φ16mm)



Torque 10 - 35 KGF.CM

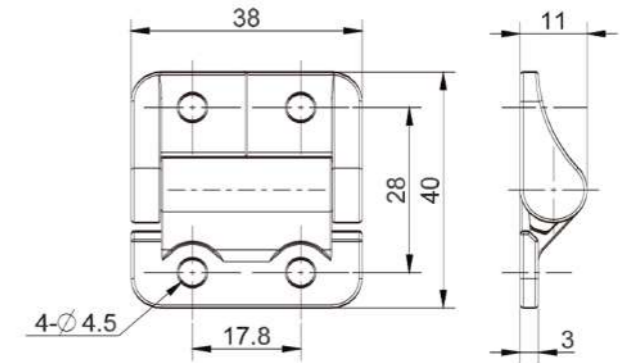
Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
270°C	-20°C-80°C	-10°C-50°C	PBT	PA	Silicone Oil

JP-B22-A(Φ11mm)



Torque 9-23KGF.CM

Maximum staticload parameters	Max Opening Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material
125N	180°C	-20°C-80°C	-10°C-50°C	Zinc	Zinc

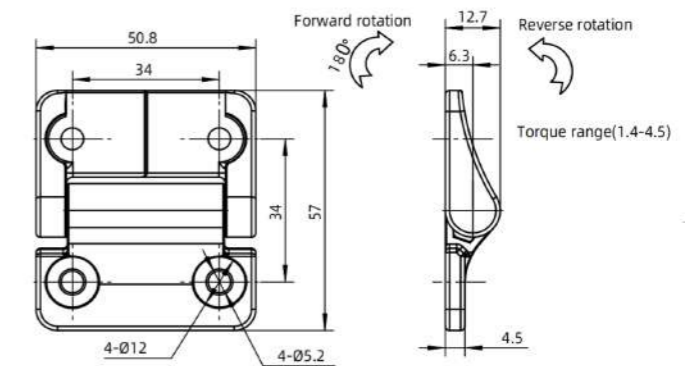


JP-B22-A(Φ12.7mm)



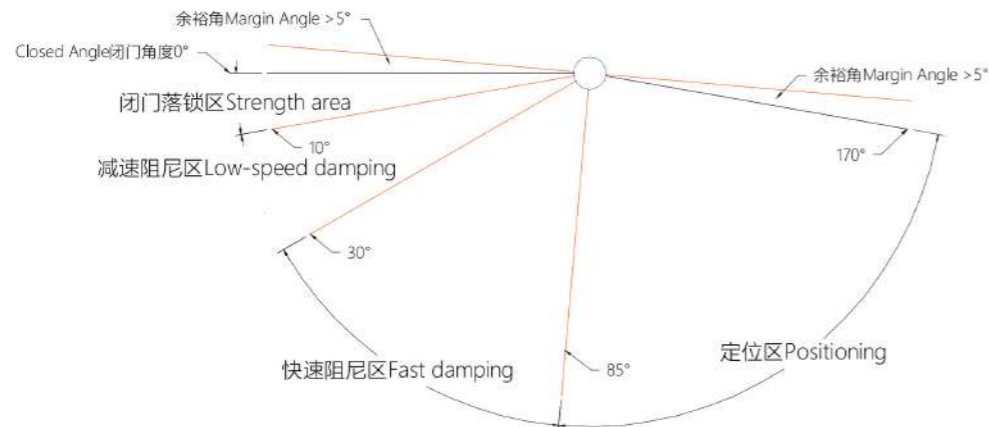
Torque 14-45KGF.CM

Maximum staticload parameters	Max Opening Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material
200N	180°C	-20°C-80°C	-10°C-50°C	Zinc	Zinc

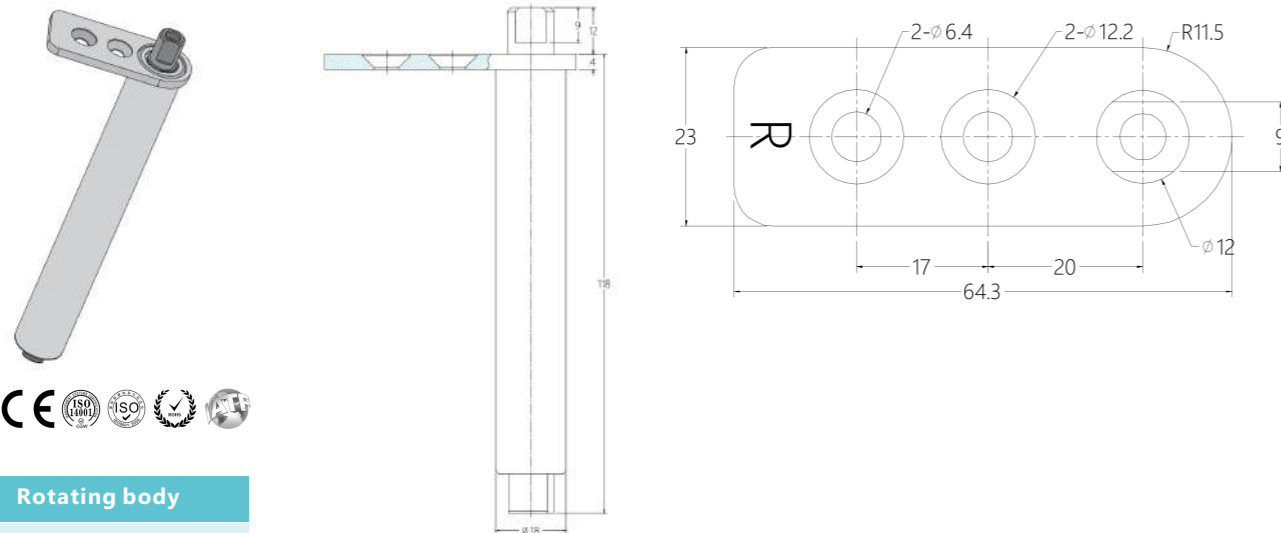


Hydraulic damper

Hydraulic door closing device is a multi-functional hydraulic damping system with door body turnover control. The product sets flat opening positioning, automatic closing, hydraulic buffering, damping ant-clamping, force locking and other functions, so that the door control hardware system is highly integrated.



JP-BM18A-One way ($\Phi 18\text{mm}$)

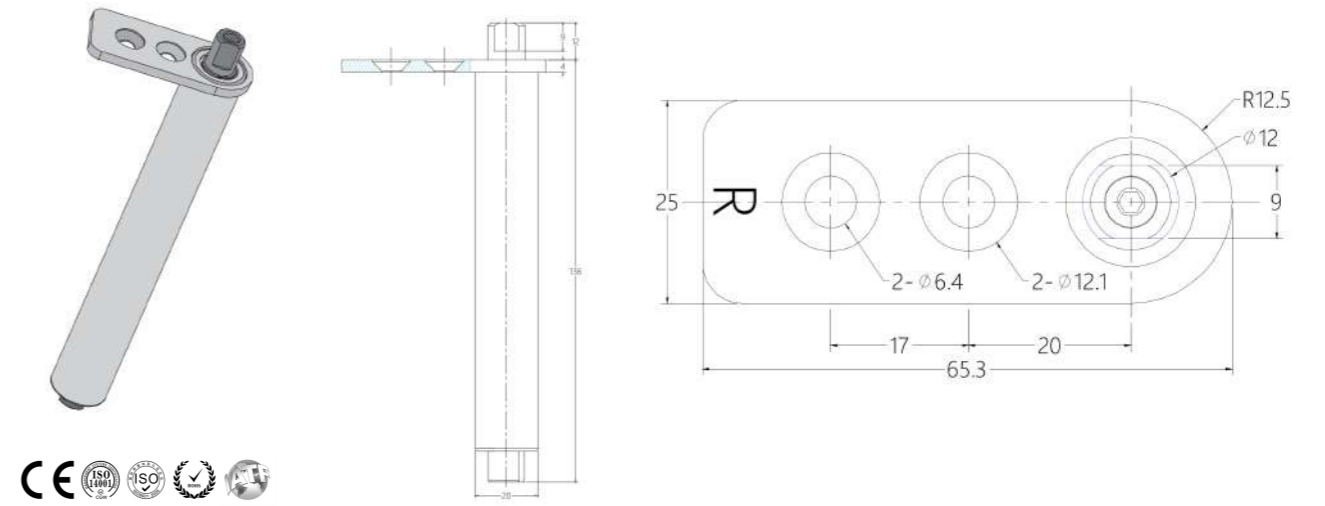


Rotating body

20 KG

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
150°	$-20^\circ\text{C} - 90^\circ\text{C}$	$-10^\circ\text{C} - 60^\circ\text{C}$	Zinc	Zinc	Silicone Oil

JP-BM20A-One way ($\Phi 20\text{mm}$)

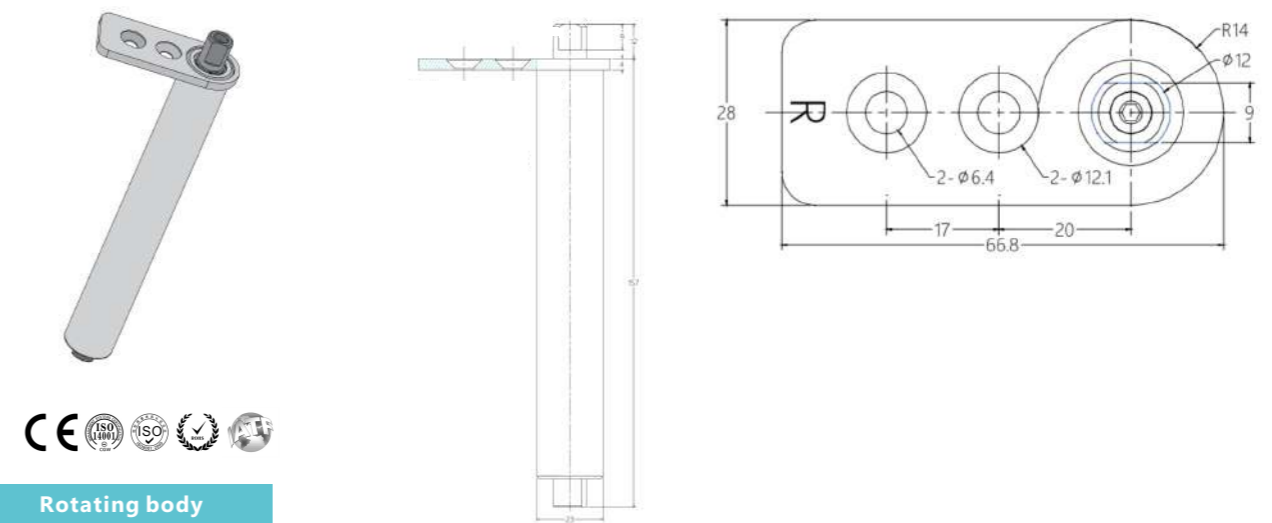


Rotating body

25 KG

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
150°	$-20^\circ\text{C} - 90^\circ\text{C}$	$-10^\circ\text{C} - 60^\circ\text{C}$	Zinc	Zinc	Silicone Oil

JP-BM23A-One way ($\Phi 23\text{mm}$)



Rotating body

35 KG

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
150°	$-20^\circ\text{C} - 90^\circ\text{C}$	$-10^\circ\text{C} - 60^\circ\text{C}$	Zinc	Zinc	Silicone Oil

SPIRAL-LINEAR DAMPER

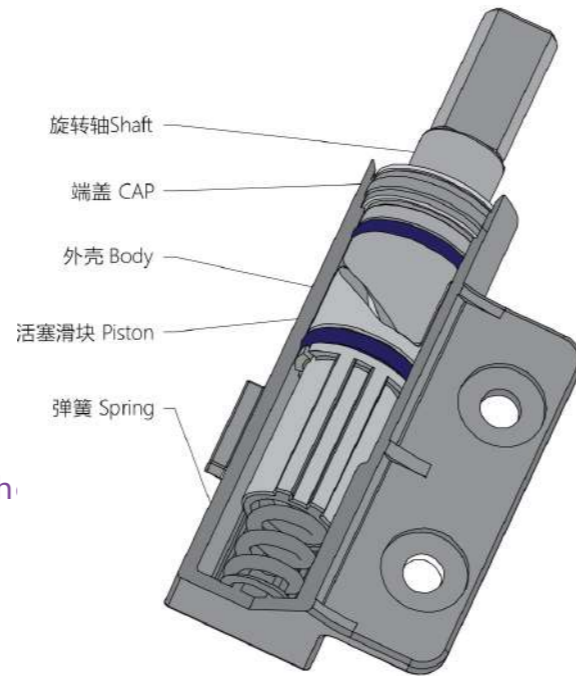
The spiral-linear damper is a kind of hydraulic damping buffer.

The gravity of the load is coordinated with the spiral-linear damper, and the cover helps to close under the condition of the output torque of the spiral-linear damper.

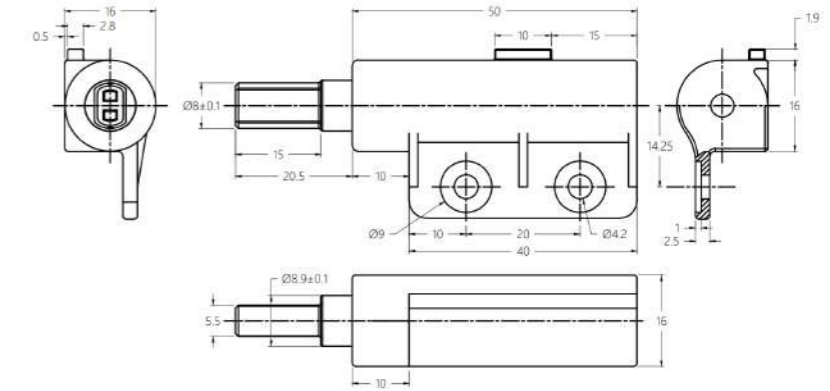
Advantage:

With a small working angle, 10-30°;

An opening force will be provided to facilitate the opening of the lid.



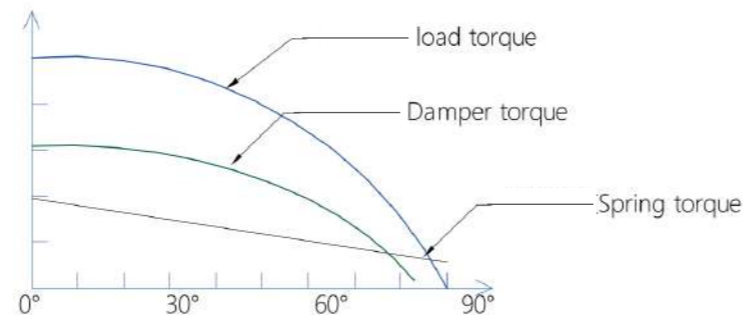
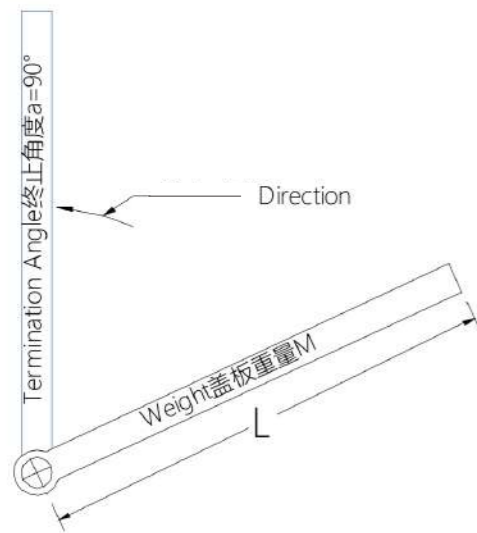
JP-CN16K-One way(Φ16mm)



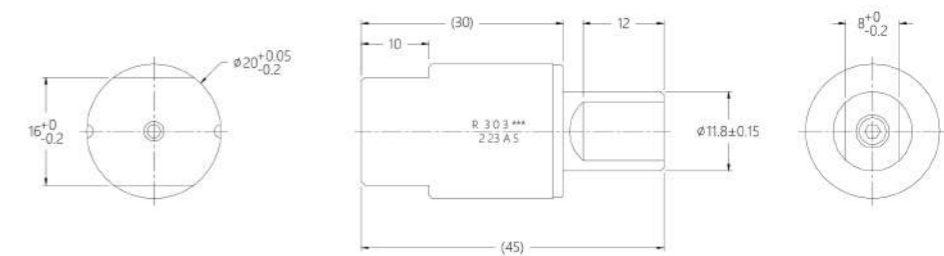
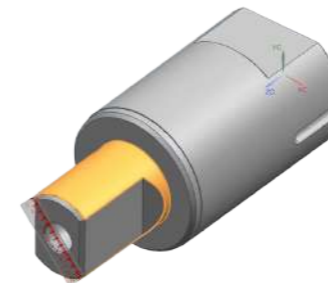
Torque
10-40 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-20°C - 80°C	0°C-40°C	Zinc	Zinc	Silicone Oil

The variation curve of the rotating torque on the load and the damper is as follows:



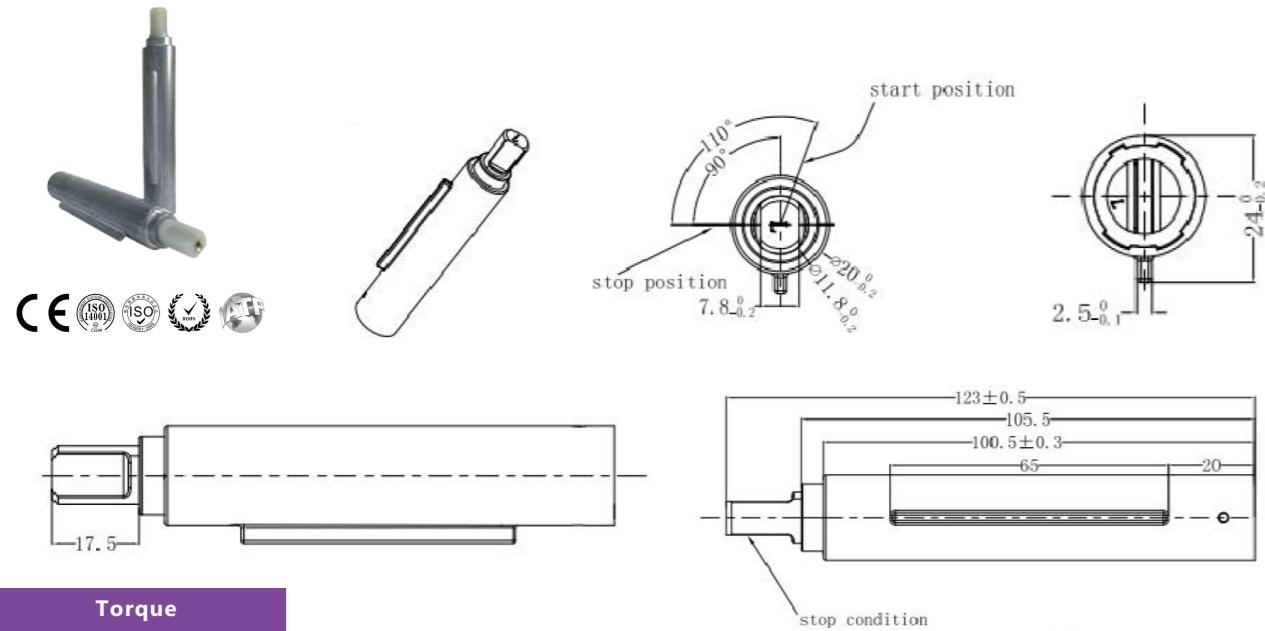
JP-CN20A-One way(Φ20mm)



Torque
10-30 KGF.CM

Working Angle	Static Storage Temperature	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-5°C - 50°C	-20°C-60°C	PA+GF	PA+GF	Oil

PR-T115A-One way (Φ20mm)

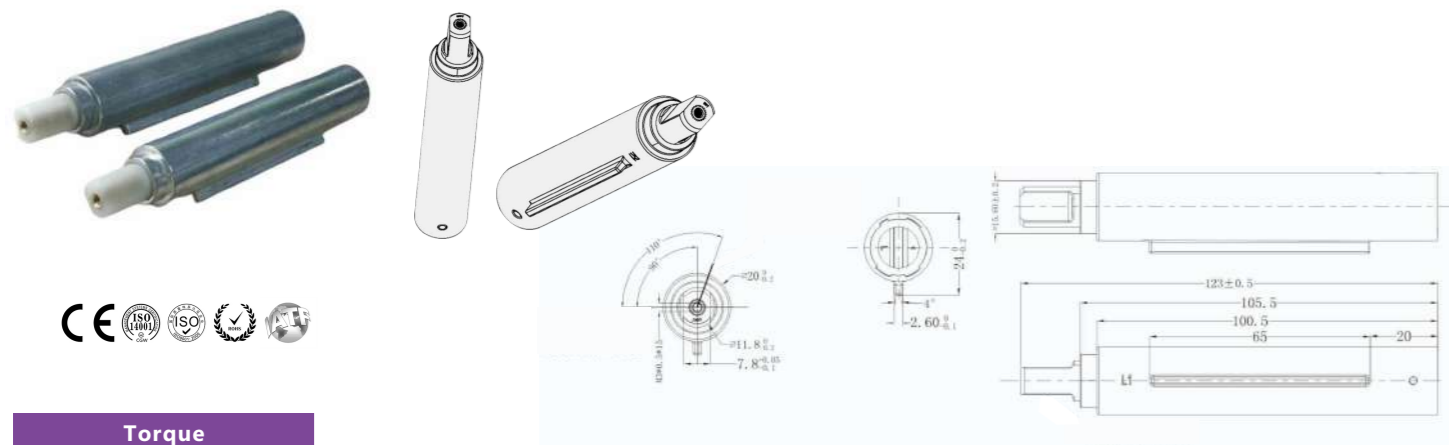


Torque
16-80 KGf.CMM

Working Angle	Dynamic Working Temperature	Body Material	Shaft Material	Oil
110°	-20°C-60°C	Zinc Alloy	PA/POM	Silicone Oil

Remarks: For T115 series dampers can also be applied in high-temperature environments (up to 120 degrees), by using heat-resisting material, such as in cooking ranges, ovens, etc.

PR-T115H-One way (Φ20mm)

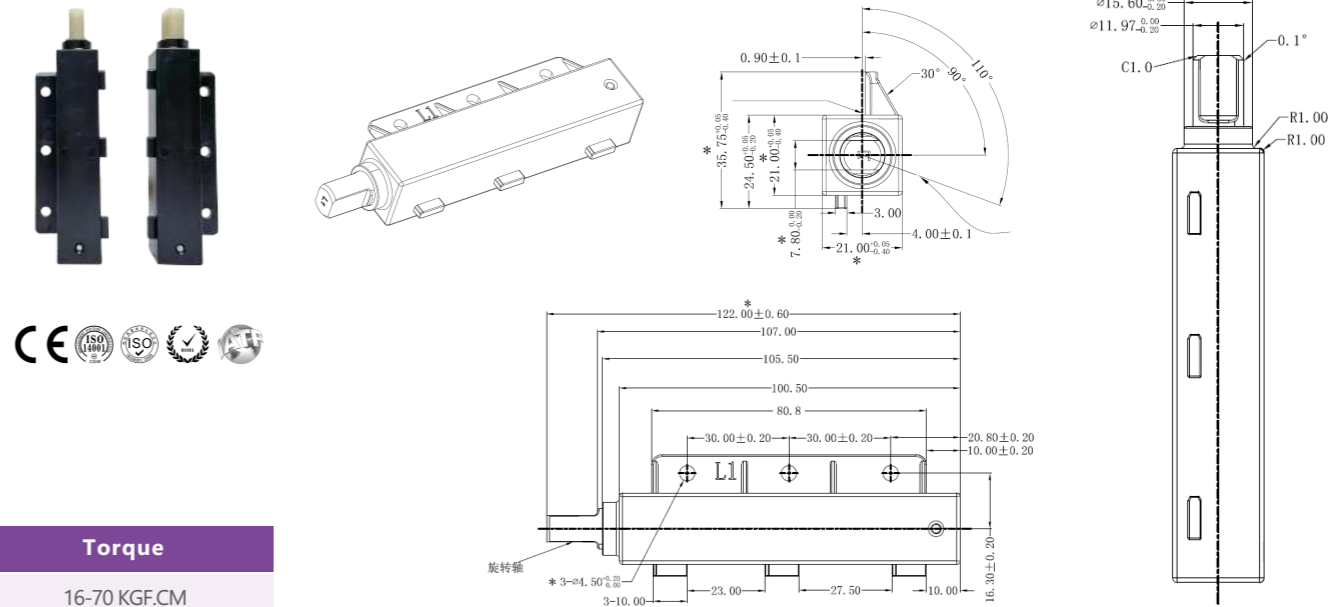


Torque
16-105 KGf.CM

Working Angle	Min Opening Angle	Dynamic Working Temperature	Body Material	Shaft Material	Damping Medium
110°	≤20°	-20°C - 60°C	Zinc Alloy	PA66 - GF40	Silicone Oil and Spring

Remarks: For T115 series dampers can also be applied in high-temperature environments (up to 120 degrees), by using heat-resisting material, such as in cooking ranges, ovens, etc.

PR-T115G-One way (21*21mm)

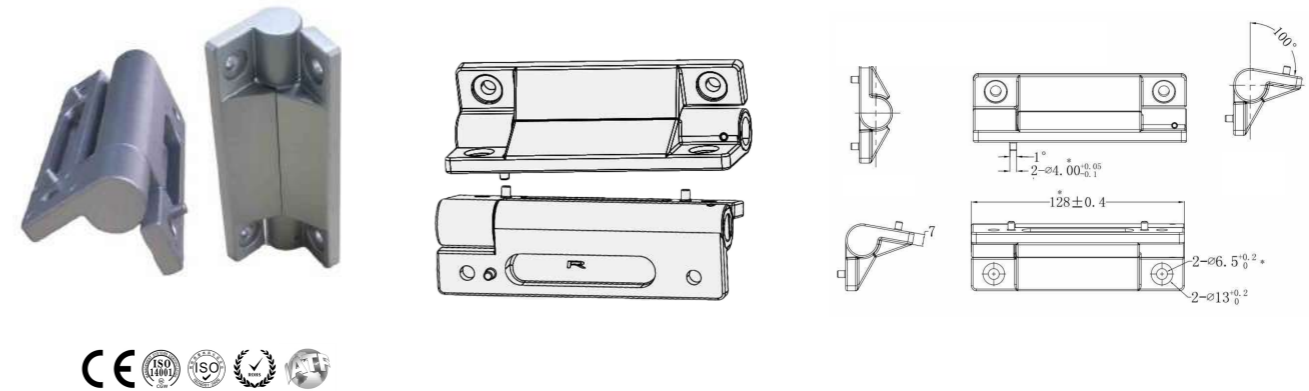


Torque
16-70 KGf.CM

Working Angle	Min Opening Angle	Dynamic Working Temperature	Body Material	Shaft Material	Damping Medium
110°	≤20°	-20°C - 60°C	POM	PA66 - GF40	Silicone Oil and Spring

Remarks: For T115 series dampers can also be applied in high-temperature environments (up to 120 degrees), by using heat-resisting material, such as in cooking ranges, ovens, etc.

PR-T115K-One way (Φ20mm)



Torque
15-110 KGf.CM

Working Angle	Dynamic Working Temperature	Body Material	Shaft Material	Damping Medium
110°C	-5°C - 50°C	Zinc Alloy	PA66 - GF40	Silicone Oil and Spring

Remarks: For T115 series dampers can also be applied in high-temperature environments (up to 120 degrees), by using heat-resisting material, such as in cooking ranges, ovens, etc.

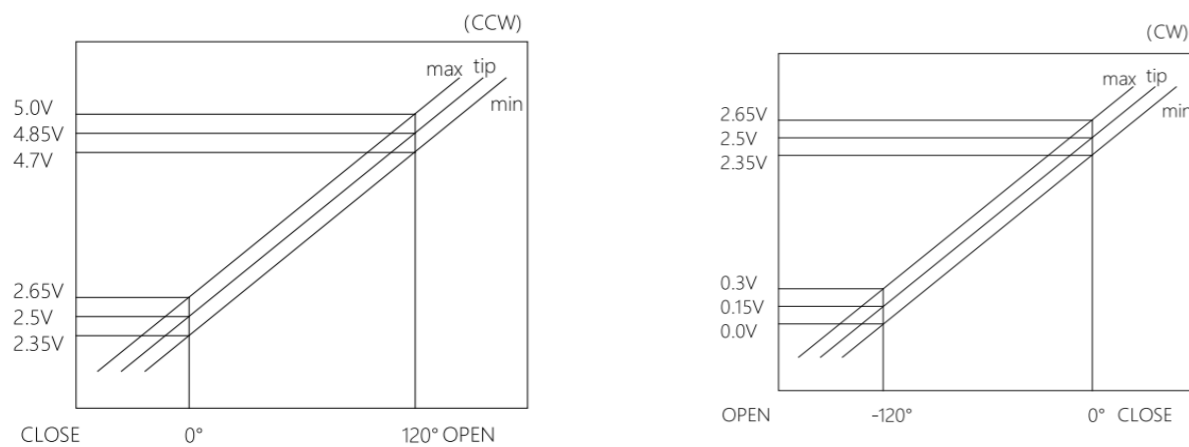
DRIVING MOTOR

The driving motor is mainly composed of the gearbox, micromotor, damping overload clutch, angle sensor, and other parts.

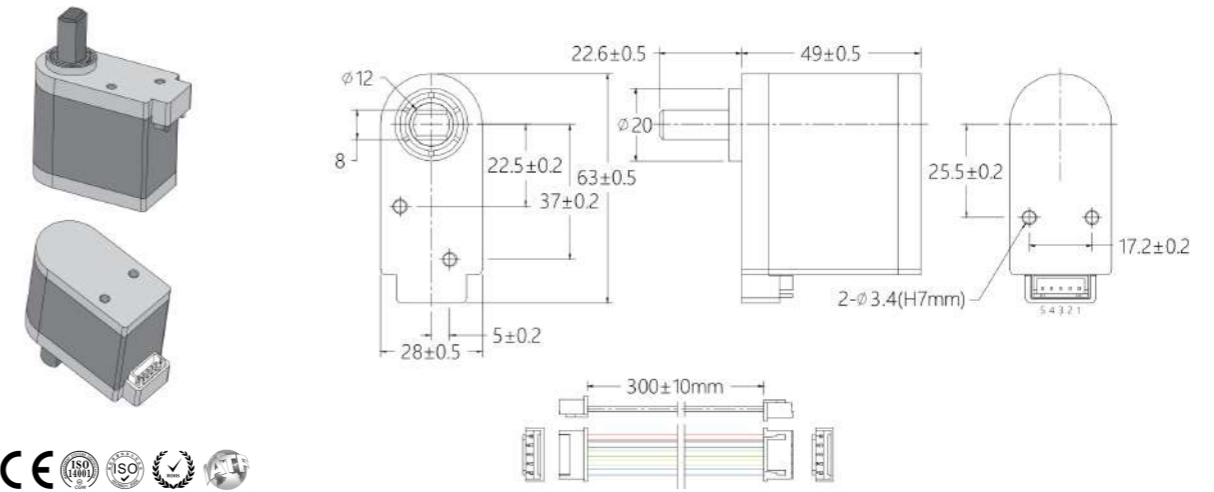
The micromotor spindle reduces and increases the torque through the multistage gear to output the rotational torque to the spindle.

When the rotating torque of the rotating shaft exceeds the blocking torque of the motor the damping overload clutch disengages to realize the mechanism protection;

Equipped with an angle sensor, through the voltage signal output rotation axis position electrical signal, micromotor start and stop control.

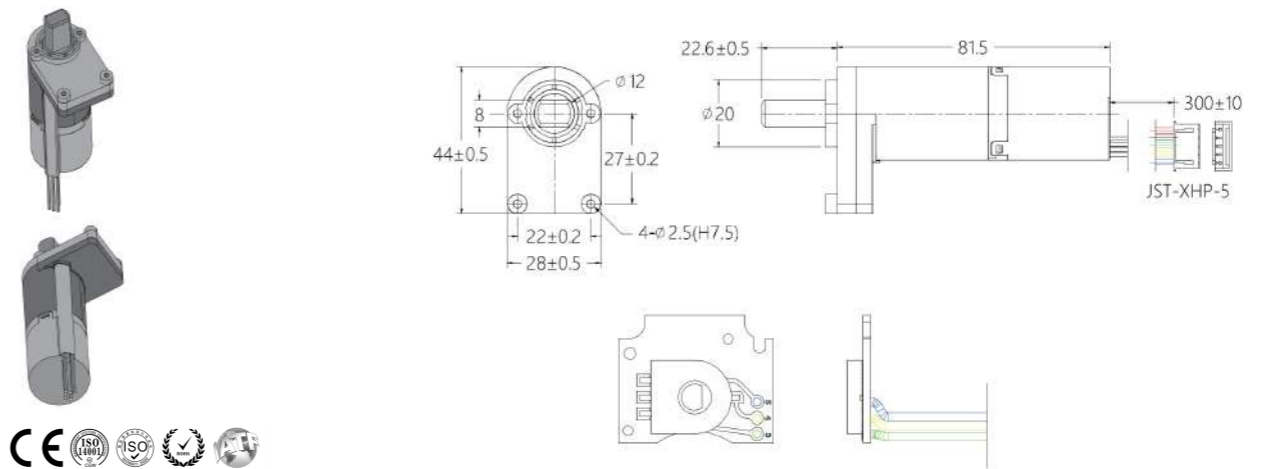


JP-MD28A-One way(28*63mm)



Torque	32-50 KGF.CM				
Reduction ratio	Rated voltage	Torque	Vibration	Plugging current	Max Opening Angle
864.77	DC12V	>3.2N.m(5N.m (max))	52dBmax@30cm	2.5A max	120°±5
Opening time	Dynamic Working Temperature	Motor reliability	Manual reliability		
3.5±0.5s	-10°C-50°C	110,000cycles	1,000cycles		

JP-MD28B-One way(28*44mm)



Torque	32-50 KGF.CM				
Reduction ratio	Rated voltage	Torque	Vibration	Plugging current	Max Opening Angle
877.8	DC12V	>3.2N.m(5N.m (max))	52dBmax@30cm	2.5A max	120°±5
Opening time	Dynamic Working Temperature	Motor reliability	Manual reliability		
3.5±0.5s	-10°C-50°C	110,000cycles	1,000cycles		

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