

Compliance Light Compact Specifications

In addition to automatically aligning errors with the position of workpiece insertion, Compliance Light can be used for press fitting processes.

Perfect at absorbing errors for small, lightweight parts

Lightweight and compact

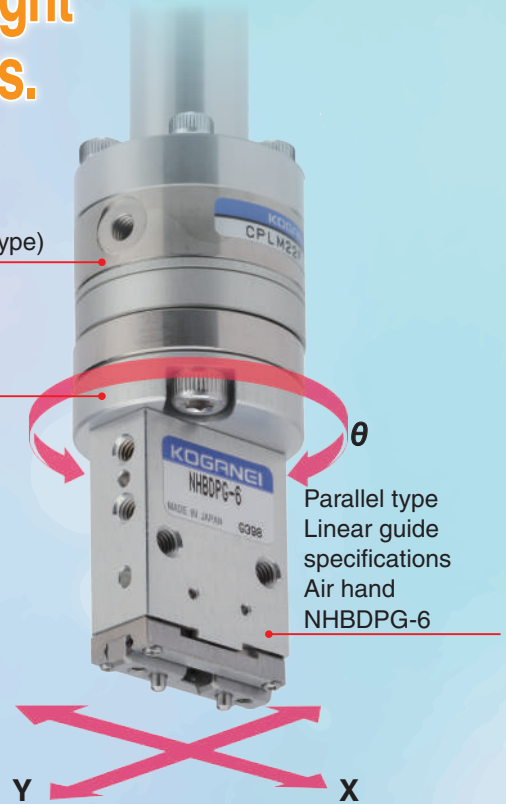
2 types: Parallel and Swing

2 size variations

φ22 mm [0.866 in.], φ26 mm [1.024 in.]

Compliance Light
CPLM22F (Parallel type)

Mounting plate



Parallel type
Linear guide
specifications
Air hand
NHBDPG-6

* Please purchase the installation plate separately.



*φ22 mm [0.866 in.]



*φ26 mm [1.024 in.]



φ22 mm [0.866 in.]



φ26 mm [1.024 in.]

Parallel type

Range of movement:
X, Y, and θ

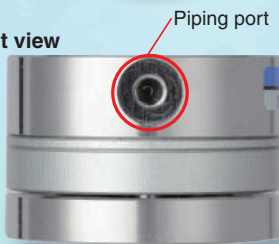
The parallel type corrects positional errors **when inserting workpieces and press fitting**, and when handling workpieces in the X, Y, and θ axes

- Perfect at absorbing positional errors for small, lightweight parts
- The parallel type can be used as a press fitting base
- Parallel type with a range of movement of X, Y, and θ

● Top view



● Front view



● Side view



● Bottom view

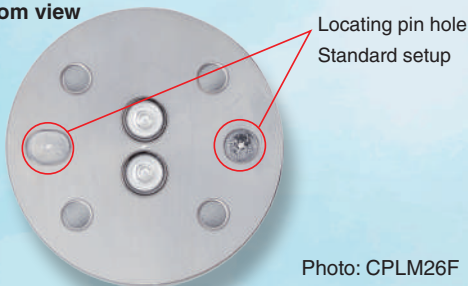
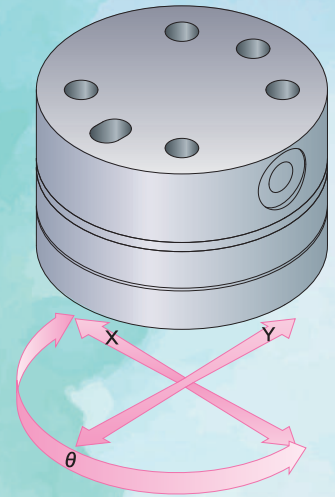


Photo: CPLM26F



Improved withstand load capacity

The parallel type can be used as a pedestal for press fitting processes

Explanation of operation

● When applying air pressure

The internal piston presses the steel balls for positioning, which moves and holds the plate in the center position of the unit.

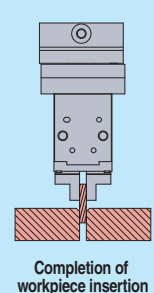
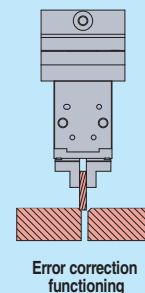
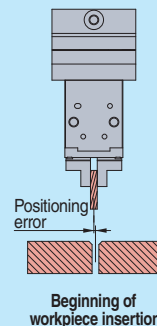
● When not applying air pressure

The plate moves in the X, Y, and θ axes to absorb positioning errors.

Air pressure applied Locked

Air pressure not applied Unlocked

Air pressure not applied Unlocked



Compact specifications CPLM□F Parallel type



P=0.5 MPa [73 psi]

CPLM22F

CPLM26F

● Retaining force while applying air pressure

18.7 N [4.204 lbf]

28.5 N [6.407 lbf]

● Maximum load capacity

0.6 kg [1.323 lb]

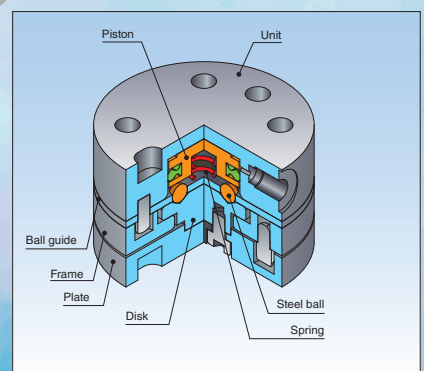
1 kg [2.205 lb]

● Outside diameter size

ϕ 22 mm [0.866 in.]

ϕ 26 mm [1.024 in.]

* Retaining force, according to Koganei measuring methods (reference value)



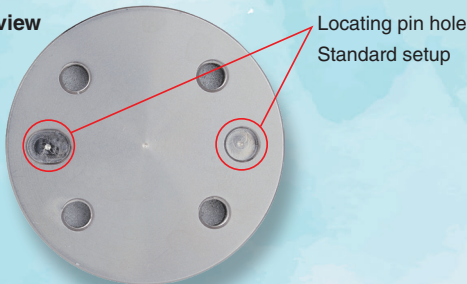
Swing type

Range of movement:
X, Y, Z, θ , and α

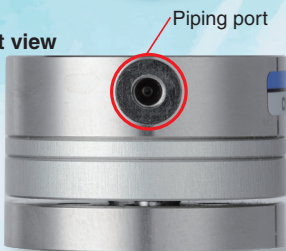
The swing type corrects positional errors when **inserting workpieces and press fitting**, and when handling workpieces in the X, Y, Z, θ , and α axes.

- Perfect at absorbing positional errors for small, lightweight parts
- Swing type with a range of movement of X, Y, Z, θ , and α

● Top view



● Front view



● Side view



● Bottom view

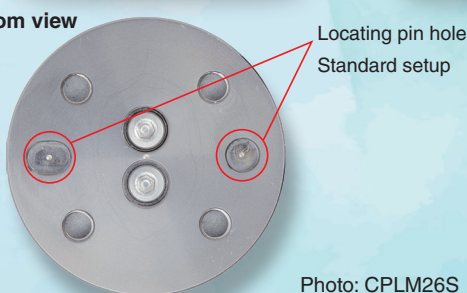
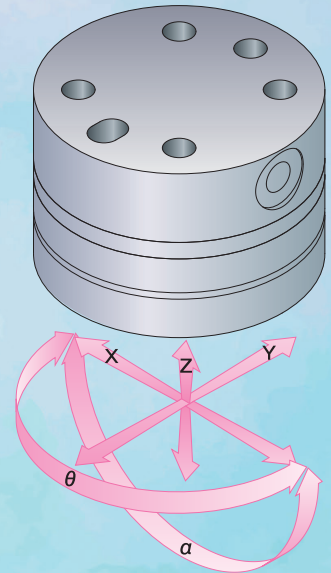


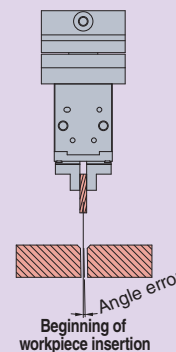
Photo: CPM26S



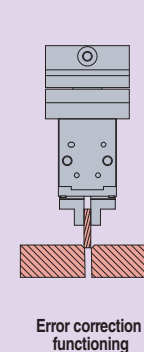
Explanation of operation

- When applying air pressure
The internal piston presses the steel balls for positioning, which moves and holds the plate in the center position of the unit.
- When not applying air pressure
The plate moves in the X, Y, θ , and α axes to absorb positioning errors.

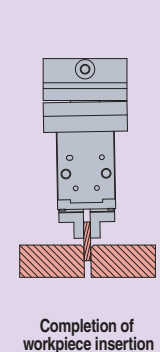
Air pressure applied Locked



Air pressure not applied Unlocked



Air pressure not applied Unlocked

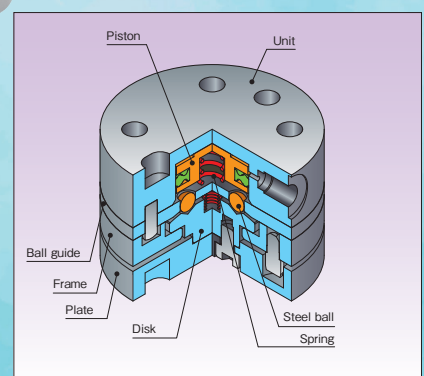


Compact specifications CPLM□S Swing type







P=0.5 MPa [73 psi]	CPLM22S	CPLM26S
● Retaining force while applying air pressure	18.7 N [4.204 lbf]	28.5 N [6.407 lbf]
● Maximum load capacity	0.6 kg [1.323 lb]	1 kg [2.205 lb]
● Outside diameter size	φ22 mm [0.866 in.]	φ26 mm [1.024 in.]

* Retaining force, according to Koganei measuring methods (reference value)



Before selecting and using the product, please read all the Safety Precautions carefully to ensure proper product use. The Safety Precautions shown below are to help you use the product safely and correctly, and to prevent injury or damage to you, other people, and assets beforehand. Follow the Safety Precautions for: ISO4414 (Pneumatic fluid power—Recommendations for the application of equipment to transmission and control systems), JIS B 8370 (Pneumatic system regulations)

The directions are ranked according to degree of potential danger or damage: “DANGER!”, “WARNING!”, “CAUTION!”, and “ATTENTION!”

 DANGER	Expresses situations that can be clearly predicted as dangerous. If the noted danger is not avoided, it could result in death or serious injury. It could also result in damage or destruction of assets.
 WARNING	Expresses situations that, while not immediately dangerous, could become dangerous. If the noted danger is not avoided, it could result in death or serious injury. It could also result in damage or destruction of assets.
 CAUTION	Expresses situations that, while not immediately dangerous, could become dangerous. If the noted danger is not avoided, it could result in light or semi-serious injury. It could also result in damage or destruction of assets.
 ATTENTION	While there is little chance of injury, this content refers to points that should be observed for appropriate use of the product.

■ This product was designed and manufactured as parts for use in General Industrial Machinery.

- In the selection and handling of the equipment, the system designer or other person with fully adequate knowledge and experience should always read the Safety Precautions, Catalog, Owner's Manual and other literature before commencing operation. Making mistakes in handling is dangerous.
- After reading the Owner's Manual, Catalog, etc., always place them where they can be easily available for reference to users of this product.
- If transferring or lending the product to another person, always attach the Owner's Manual, Catalog, etc., to the product where they are easily visible, to ensure that the new user can use the product safely and properly.
- The danger, warning, and caution items listed under these “Safety Precautions” do not cover all possible cases. Read the Catalog and Owner's Manual carefully, and always keep safety first.



DANGER

- Do not use the product for the purposes listed below:
 1. Medical equipment related to maintenance or management of human lives or bodies.
 2. Mechanical devices or equipment designed for the purpose of moving or transporting people.
 3. Critical safety components in mechanical devices.
This product has not been planned or designed for purposes that require advanced stages of safety. It could cause injury to human life.
- Do not use the product in locations with or near dangerous substances such as flammable or ignitable substances. This product is not explosion-proof. It could ignite or burst into flames.
- When mounting the product and workpiece, always firmly support and secure them in place. Dropping or falling the product or improper operation could result in injury.
- Never attempt to remodel the product. It could result in abnormal operation leading to injury.
- Never attempt inappropriate disassembly, or assembly of the product relating to its basic inner construction, or to its performance or functions. It could result in injury.
- Do not splash water on the product. Spraying it with water, washing it, or using it underwater could result in malfunction of the product leading to injury.
- While the product is in operation, avoid touching it with your hands or otherwise approaching too close. In addition, do not make any adjustments to the interior or to the attached mechanisms (disconnection of piping tubes).
The actuator can move suddenly, possibly resulting in injury.



WARNING

- Do not use the product in excess of its specification range. Such use could result in product breakdowns, functions to stop, and damage, or drastically reduce the operating life.
- Before supplying air to the product and before starting operation, always conduct a safety check of the area of machine operation. Unintentional supply of air or electricity could possibly result in injury caused by contact with moving parts.
- Always check the catalog and other reference materials for correct product piping. Improper piping creates the risk of damage to and abnormal operation of the actuator.
- Do not throw the product into fire.
The product could explode and/or release toxic gases.
- Do not sit on the product, place your foot on it, or place other objects on it.
Accidents such as falling could result in injury. Dropping or toppling the product may result in injury, or it might also damage or break it, resulting in abnormal or erratic operation, runaway, etc.

- When conducting any kind of operation for the product, such as maintenance, inspection, repair, or replacement, always turn off the air supply completely and confirm that residual pressure inside the product or in piping connected to the product is zero before proceeding.
In particular, be aware that residual air will still be in the air compressor or air storage tank. The actuator could abruptly move if residual air pressure remains inside the piping, causing injury.
- Do not use the actuator for equipment whose purpose is absorbing the shocks and vibrations of mechanical devices. It could break and possibly result in injury or in damage to mechanical devices.
- Use within the maximum load capacity. Using the product beyond the maximum load capacity may damage equipment or cause personal injury.
- Use safety circuits or system designs to prevent damage to machinery or injury to personnel when the machine is shut down due to emergency stop or electrical power failure.
- In initial operations after the equipment has been idle for 48 hours or more, or has been in storage, there is a possibility that contacting parts may stick, resulting in equipment operation delays or sudden movements. For these initial operations, always run a test operation before use to check that operating performance is normal.
- Do not use the product near the ocean, in direct sunlight, near mercury vapor lamps, or near equipment that generates ozone. Deterioration of rubber parts caused by ozone may reduce performance and functions or stop functions.
- Because Koganei products may be used under a wide variety of conditions, decisions concerning conformance with a particular system should be made upon the careful evaluation by the person in charge of system design. Assurances concerning expected system performance and safety are the responsibility of the designer who decides system conformity. Be sure to use the latest catalogs and technical materials to study and evaluate specification details, to consider the possibility of machine breakdown, and to configure a system that ensures fail-safe safety and reliability.
- Do not use the product in locations subject to direct sunlight (ultraviolet radiation), in locations with dust, salt, or iron particles, or in locations with media and/or ambient atmosphere that include organic solvents, phosphate ester type hydraulic oil, sulfur dioxide gas, chlorine gas, acids, etc. Such uses could lead to loss of functions within a short period, sudden degradation in performance, or reduced operating life. For details on materials used in the product, refer to the description of materials used in major parts.



CAUTION

- When installing the product, leave room for adequate working space around it. Failure to ensure adequate working space will make it more difficult to conduct daily inspections or maintenance, which could eventually lead to system shutdown or damage to the product.
- Do not scratch, dent, or deform the actuator by climbing on the product, using it as a scaffold, or placing objects on top of it. It could result in damaged or broken a product that results in operation shutdown or degraded performance.
- Always post an "operations in progress" sign for installations, adjustments, or other operations, to avoid unintentional supplying of air, electrical power, etc. Such accidental supplies may cause electric shock or sudden activation of the product that could result in physical injury.
- Using extremely dry air with a dew point lower than -20°C [-4°C], may affect the quality of the lubricating oil used. This creates the risk of degraded performance, loss of function, or other problems.



ATTENTION

- When considering the possibility of using this product in situations or environments not specifically noted in the Catalog or Owner's Manual, or in applications where safety is an important requirement such as in an airplane facility, combustion equipment, leisure equipment, safety equipment, and other places where human life or assets may be greatly affected, take adequate safety precautions such as an application with enough margins for ratings and performance or failsafe measure.
Be sure to consult us about such applications.
- Use a protective cover, etc., to ensure that human bodies do not come into direct contact with the operating portion of mechanical devices, etc.
- Do not control in a way that would cause workpieces to fall during power failure.
Take control measures so that they prevent the workpieces, etc., from falling during power failure or emergency stop of the mechanical devices.
- When handling the product, wear protective gloves, safety glasses, safety shoes, etc., to keep safety.
- When the product can no longer be used, or is no longer necessary, dispose of it appropriately as industrial waste.
- Pneumatic equipment can exhibit degraded performance and function over its operating life. Always conduct daily inspections of the pneumatic equipment, and confirm that all requisite system functions are satisfied, to prevent accidents from happening.
- For inquiries about the product, contact your nearest Koganei sales office or Koganei overseas department. The address and telephone number is shown on the back cover of this catalog.



OTHERS

- Always observe the following items.
 1. When using this product in pneumatic systems, always use genuine KOGANEI parts or compatible parts (recommended parts).
When conducting maintenance and repairs, always use genuine KOGANEI parts or compatible parts (recommended parts).
Always observe the required methods.
 2. Do not attempt inappropriate disassembly or assembly of the product relating to basic configurations, or its performance or functions.

Koganei cannot be responsible if these items are not properly observed.

Warranty and General Disclaimer

1. Warranty Period

The warranty period for Koganei products is 1 year from the date of delivery.

*However, some products have a 2-year warranty; contact your nearest Koganei sales office or the Koganei overseas department for details.

2. Scope of Warranty and General Disclaimer

- (1) When a product purchased from Koganei or from an authorized Koganei distributor or agent malfunctions during the warranty period in a way that is attributable to Koganei's responsibility, Koganei will repair or replace the product free of charge. Even if a product is still within the warranty period, its durability is determined by its operation cycles and other factors. Contact your nearest Koganei sales office or the Koganei overseas department for details.
- (2) The Koganei product warranty covers individual products. Therefore, Koganei is not responsible for incidental losses (repair of this product, various expenses required for replacement, etc.) caused by breakdown, loss of function, or loss of performance of Koganei products.
- (3) Koganei is not responsible for any losses or for any damages to other machinery caused by breakdown, loss of function, or loss of performance of Koganei products.
- (4) Koganei is not responsible for any losses due to use or storage of the product in a way that is outside of the product specifications prescribed in Koganei catalogs and instruction manuals, and/or due to actions that violate the mounting, installation, adjustment, maintenance or other safety precautions.
- (5) Koganei is not responsible for any losses caused by breakdown of the product due to factors outside the responsibility of Koganei, including but not limited to fire, natural disaster, the actions of third parties, and intentional actions or errors by the purchaser.



General precautions

Piping

1. Before performing piping work on the product, thoroughly flush the inside of the pipes (blow out with compressed air). Machining chips, sealing tape, rust and other debris remaining from the piping work may result in air leaks and malfunctions.

Air supply

1. Use air as the medium. For the use of any other medium, consult your nearest Koganei sales office.
2. Air used for the product should be clean air that contains no degraded compressor oil, etc. Install an air filter (filtration of 40 μm or less) near the product to remove collected liquid or dust. Also drain the air filter periodically. If liquid or dust gets into the product, it may cause defective operation.

Lubrication

1. The cylinder can be used without lubrication, however, if lubrication, such as a lubricator, is used, use turbine oil type 1 (ISO VG32) or an equivalent. Avoid using spindle oil or machine oil.
2. Never apply lubrication to the sliding parts of the swing type. Doing so may cause defective operation.

Environment

1. Cover the unit when using it in locations where it might be subject to excessive dust, dripping water, dripping oil, etc.
2. Do not use the product in environments which may be corrosive. Using the cylinder in these types of environments may result in damage or defective operation.
3. Do not use it in excessively dry conditions.
4. Do not use the cylinder if the ambient temperature is over 60°C [140°F], doing so may result in damage or defective operation. Also, consider anti-freezing measures if the temperature is less than 5°C [41°F], because moisture may freeze and result in damage or defective operation.

Handling

1. Confirm that there is no residual pressure in the product before starting maintenance work.
2. Displacement should not exceed the allowed range of movement in any direction. It could result in damaged or broken a product that results in operation shutdown or degraded performance.
3. To lock or unlock the function for error correction (compliance), switch between applying and not applying air pressure. When inserting or pushing, do so in an unlocked state with no air pressure applied. When moving, do so in a locked state with air pressure applied. Moreover, install a shock absorber, etc., where the movement comes to a standstill to ensure as smooth a stop as possible. Sudden stops may cause the lock to disengage, and reduce the centripetal accuracy.
4. Use within the range for the maximum load capacity. Using this unit while exceeding the maximum load capacity may cause wear or degradation to the sliding parts.
5. The parallel type can also be used in a lower position. The mounted load should be less than the maximum load capacity.
6. Mount the product so that the center of gravity of the mounted load falls within the plate's external diameter, and do not operate with an overhanging load. Doing so may cause wear or degradation to the sliding parts.
7. When a robot or other actuator performs a linear or rotational movement, an excessive moment may be generated due to the inertial force of the mounted load. Ensure sufficient allowances even within the range of holding force and holding moment.

8. When loads are applied in compression or tension orientations, use less than the allowable load.
9. The plate may move if a large external force is applied while air is applied and it is locked.
10. Condensation may develop when small-volume actuators are connected to long piping (large volume). We recommend using MTV Series water removal valves.

Installing

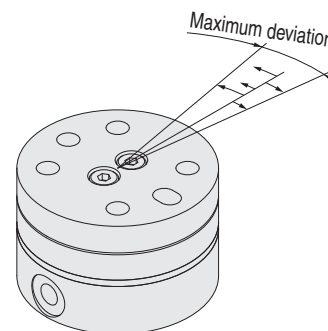
1. Use this unit in a horizontal position when no air pressure is applied (unlocked). The mounting surface should be flat. If the cylinder twists or bends when mounted, not only will it be inaccurate, but there may be air leaks and defective operation.
2. Note that if the product's mounting surface is scratched or dented it can adversely affect flatness.
3. Be sure that the unit and the mounting bolts are strong enough.
4. In cases where loosening of screws due to impact and/or vibration may be a factor, consider looseness prevention measures. Be careful that adhesive spreads out evenly. If the adhesive gets into the product, it may cause defective operation.
5. Be careful that error correction (compliance) is not obstructed by piping and wiring when mounting hands, etc., to the mounting surface.

Repeatability

Move the plate, with no load and no air pressure applied, in any direction and measure the position at which the plate stops after applying air. Measure this 10 times and calculate the maximum deviation. The repeatability is the value with \pm appended to 1/2 of the calculated maximum deviation.

Repeatable angle accuracy

Rotate the plate, with no load and no air pressure applied, laterally and measure the angle at which the plate stops after applying air. Measure this 10 times and calculate the maximum deviation. The repeatable angle accuracy is the value with \pm appended to 1/2 of the calculated maximum deviation.



Handling Instructions and Precautions

Tightening torque

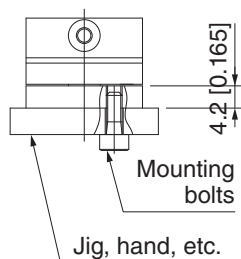
● Fittings

Screw size	Tightening torque (N·m [in·lbf])
M3	0.7 [6.196]
M3(TSH2-M3M)	0.3 [2.655]

Recommended fittings
 TS2-M3M (straight)
 TSH2-M3M (straight with hexagonal socket)
 TL2-M3M (elbow)

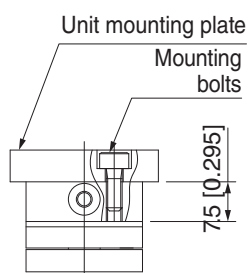
Note: Some fittings may protrude from the body, so please check the dimensional drawings before making your selection.

● Mounting of jig or hand



Type	Model	Bolt	Maximum tightening torque (N·m [in·lbf])
Parallel type	CPLM22F	M3×0.5	0.63 [5.576]
	CPLM26F		
	CPLM22S		
Swing type	CPLM26S		

● Mounting the main unit



Type	Model	Bolt	Maximum tightening torque (N·m [in·lbf])
Parallel type	CPLM22F	M3×0.5	0.63 [5.576]
	CPLM26F		
	CPLM22S		
Swing type	CPLM26S		

Compliance Light

Compact specifications Parallel type



Specifications

Item		Basic type	CPLM22F	CPLM26F
Bore size		mm [in.]	φ10 [0.394]	φ12 [0.472]
Dimensions		mm [in.]	φ22 [0.866]	φ26 [1.024]
Height		mm [in.]	17 [0.669]	17 [0.669]
Mass		g [oz]	20 [0.71]	30 [1.06]
Operating type			Single acting type	
Media			Air	
Operating pressure range		MPa [psi]	0.3 to 0.7 [44 to 102]	
Proof pressure		MPa [psi]	1.05 [152]	
Operating temperature range		°C [°F]	0 to 60 [32 to 140]	
Diameter of connection port		mm [in.]	M3×0.5	
Lubrication	Cylinder part		Not required	
	Sliding part		Not required	
Maximum load capacity		kg [lb]	0.6 [1.323]	1 [2.205]
Movement distance	X - Y	mm [in.]	±0.3 [0.012]	±0.4 [0.016]
	θ (twisting)	°	±2.5	
Repeatability ^{Note 1} (X - Y directions)	P=0.5 MPa [73 psi]	mm [in.]	±0.05 [0.002]	
Repeatability angle accuracy ^{Note 2} (in the direction of θ)	P=0.5 MPa [73 psi]	°	±1.0	
Allowable load ^{Note 3}	Pushing direction	N [lbf]	58 [13.038]	80 [17.984]
	Pulling direction	N [lbf]	34 [7.643]	56 [12.589]

Note 1: Repeatability: The maximum deviation of the position at which the plate, with no load and no air pressure applied, stops when air has been applied after moving it in any direction. For details, see page ⑤.

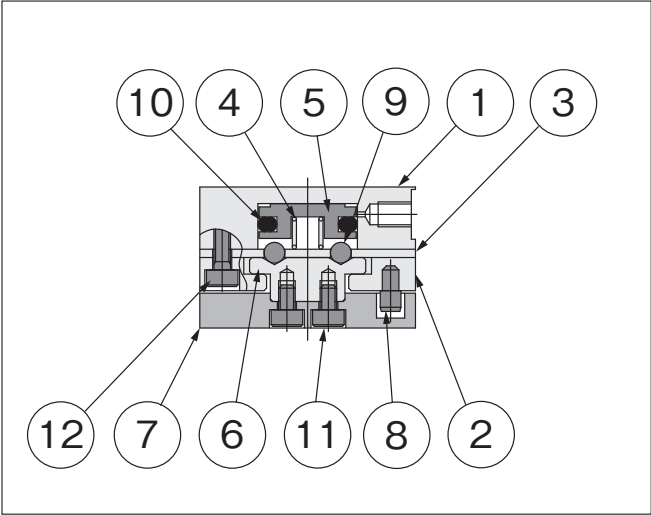
2: Repeatability angle accuracy: The maximum deviation of the angle at which the plate, with no load and no air pressure applied, stops when air has been applied after rotating laterally. For details, see page ⑤.

3: When loads are applied, use less than the allowable load.

Remark 1: Without centripetal force. (Centripetal force is the force that maintains the center position via the restraining ring in a condition in which no load and no air pressure is applied)

2: Mount the product so that the center of gravity of the mounted load falls within the plate's external diameter, and do not operate with an overhanging load.

Inner construction



Major parts and materials

No.	Name	Model	
		CPLM22F	CPLM26F
①	Unit	Aluminum alloy (electroless nickel plated)	
②	Frame	Aluminum alloy (special anti-abrasion treated)	
③	Ball guide	Aluminum alloy (special anti-abrasion treated)	
④	Spring	Stainless steel	
⑤	Piston	Steel	
⑥	Disk	Steel	
⑦	Plate	Aluminum alloy (electroless nickel plated)	
⑧	Stepped pin	Stainless steel	
⑨	Steel ball	Steel	
⑩	Seal	Synthetic rubber (NBR)	
⑪	Hexagon socket head screw	Stainless steel	
⑫	Hexagon socket head screw	Stainless steel	

Order Codes

● Compact specifications Parallel type

CPLM

F

Direction of movement
F: parallel movement

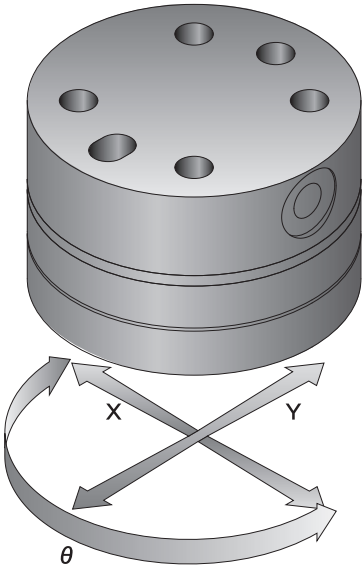
Size (outside diameter size)
22: $\phi 22$ mm [0.866 in.]
26: $\phi 26$ mm [1.024 in.]

Compliance Light
(Compact specifications)

Note: There is no selection for centripetal force.

Direction of movement

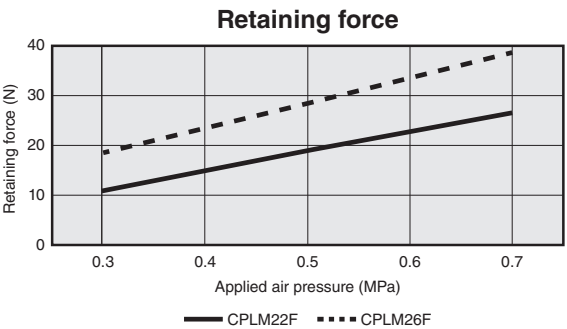
● X, Y, and θ axes



Graph (reference values)

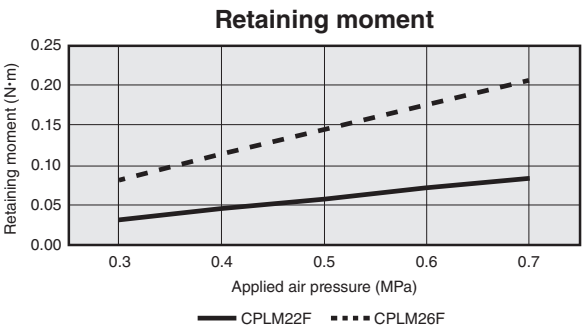
● Retaining force

* Retaining force: Force that maintains the center position of the X and Y directions when air pressure is applied



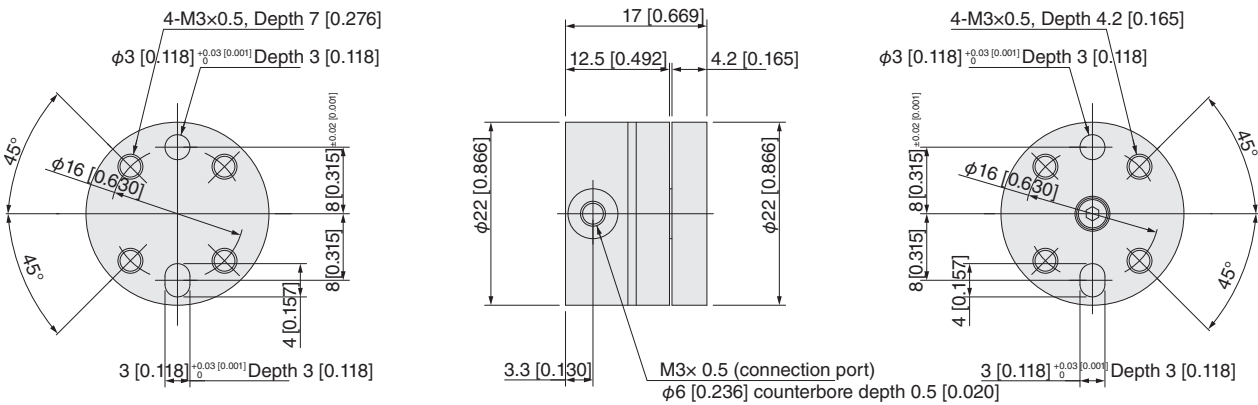
● Retaining moment

* Retaining moment: Force that maintains the center position of the θ direction when air pressure is applied

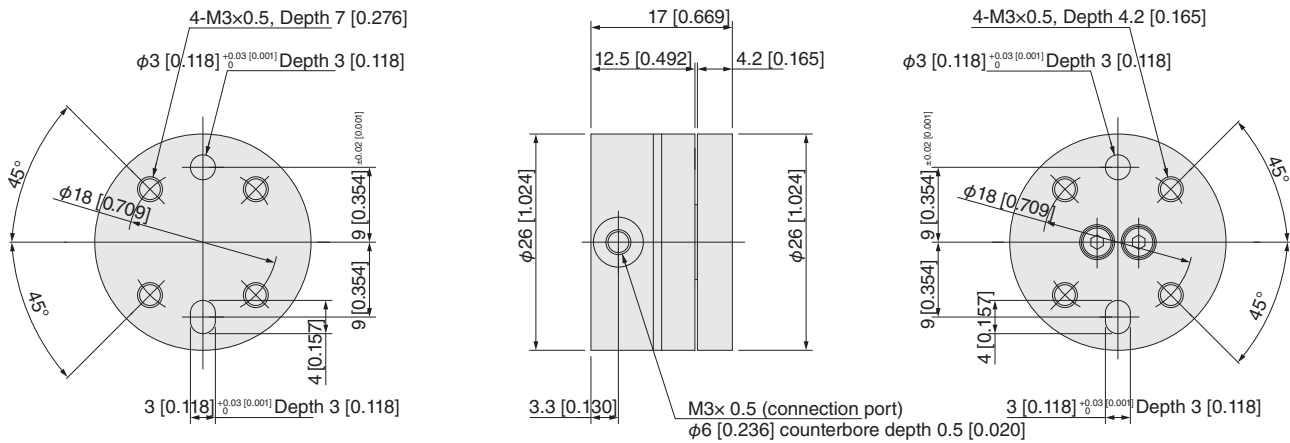


Dimensions (mm [in.])

CPLM22F



CPLM26F



Compliance Light

Compact specifications Swing type



Specifications

Item		Basic type	CPLM22S	CPLM26S
Bore size		mm [in.]	φ10 [0.394]	φ12 [0.472]
Dimensions		mm [in.]	φ22 [0.866]	φ26 [1.024]
Height		mm [in.]	17.2 [0.677]	17.7 [0.697]
Mass		g [oz]	20 [0.71]	30 [1.06]
Operating type			Single acting type	
Media			Air	
Operating pressure range		MPa [psi]	0.3 to 0.7 [44 to 102]	
Proof pressure		MPa [psi]	1.05 [152]	
Operating temperature range		°C [°F]	0 to 60 [32 to 140]	
Diameter of connection port		mm [in.]	M3×0.5	
Lubrication	Cylinder part		Not required	
	Sliding part		Not required	
Maximum load capacity		kg [lb]	0.6 [1.323]	1 [2.205]
Movement range	X—Y	mm [in.]	±0.3 [0.012]	±0.4 [0.016]
	Z	mm [in.]	−0.2 [−0.008]	
	θ (twisting)	°	±2.5	
	α (Swing angle) ^{Note 4:}	°	±1	
	α (Incline angle) ^{Note 4:}	°	±1	±0.8
Repeatability ^{Note 1} (in the direction of X and Y)	P=0.5 MPa [73 psi]	mm [in.]	±0.05 [0.002]	
Repeatability angle accuracy ^{Note 2} (in the direction of θ)	P=0.5 MPa [73 psi]	°	±1.0	
Allowable load ^{Note 3}	Pushing direction	N [lbf]	58 [13.038]	80 [17.984]
	Pulling direction	N [lbf]	34 [7.643]	56 [12.589]

Note 1: Repeatability: The maximum deviation of the position at which the plate, with no load and no air pressure applied, stops when air has been applied after moving it in any direction. For details, see page ⑤.

2: Repeatability angle accuracy: bidirectional repeatability The maximum deviation of the angle at which the plate, with no load and no air pressure applied, stops when air has been applied after rotating laterally. For details, see page ⑤.

3: When loads are applied, use less than the allowable load.

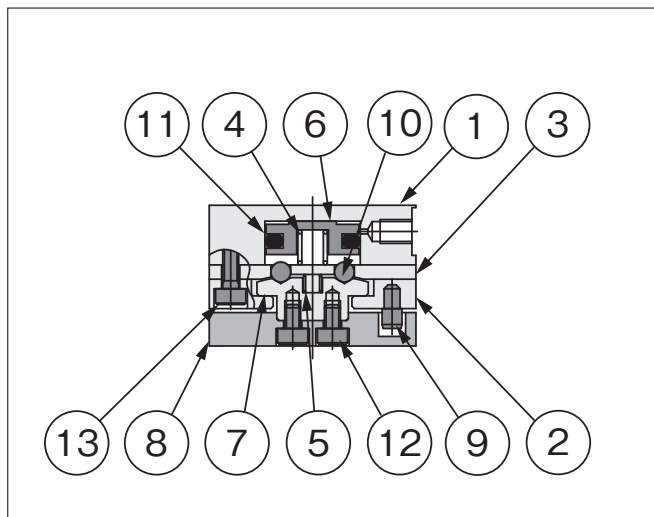
4: Swing angle: The angle at which the Z-axis movement swings during compression.

Incline angle: The angle at which the Z-axis translation is inclined during non-compression.

Remark 1: Without centripetal force. (Centripetal force is the force that maintains the center position via the restraining ring in a condition in which no load and no air pressure is applied)

2: For each product that does not have centripetal force (-N), the retaining force and the retaining moment are the same as the values indicated on the graph.

Inner construction



Major parts and materials

No.	Name	Model	
		CPLM22S	CPLM26S
①	Unit	Aluminum alloy (electroless nickel plated)	
②	Frame	Aluminum alloy (special anti-abrasion treated)	
③	Ball guide	Aluminum alloy (special anti-abrasion treated)	
④	Spring	Stainless steel	
⑤	Spring	Stainless steel	
⑥	Piston	Steel	
⑦	Disk	Steel	
⑧	Plate	Aluminum alloy (electroless nickel plated)	
⑨	Stepped pin	Stainless steel	
⑩	Steel ball	Steel	
⑪	Seal	Synthetic rubber (NBR)	
⑫	Hexagon socket head screw	Stainless steel	
⑬	Hexagon socket head screw	Stainless steel	

Order Codes

● Compact specifications Swing type

CPLM **S**

Direction of movement
S: twisting movement

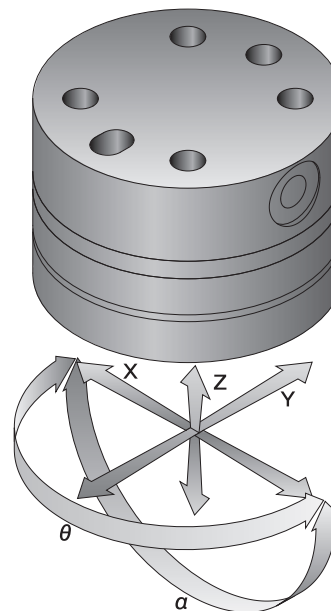
Size (outside diameter size)
22: $\phi 22$ mm [0.866 in.]
26: $\phi 26$ mm [1.024 in.]

Compliance Light
(Compact specifications)

Note: There is no selection for centripetal force.

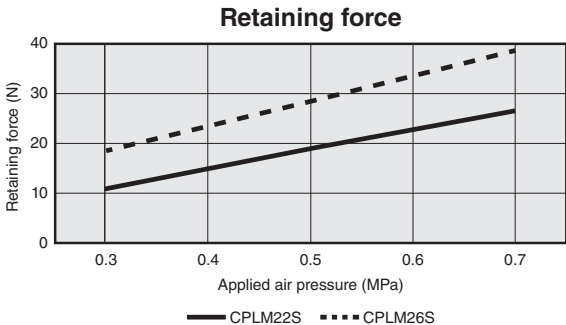
Direction of movement

● X, Y, Z, θ , and a axes



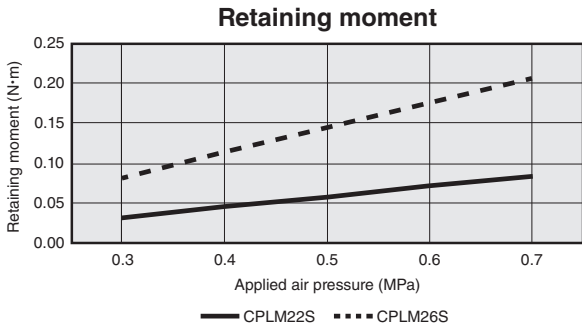
- Retaining force

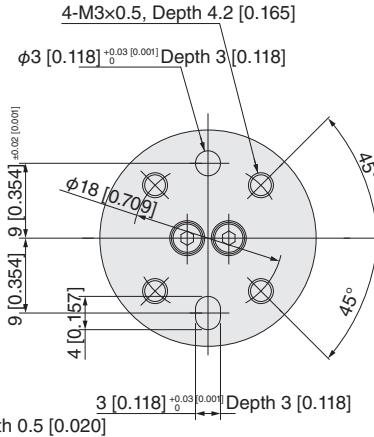
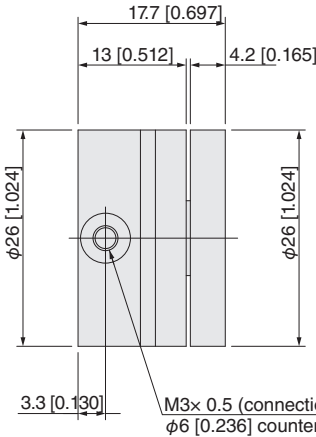
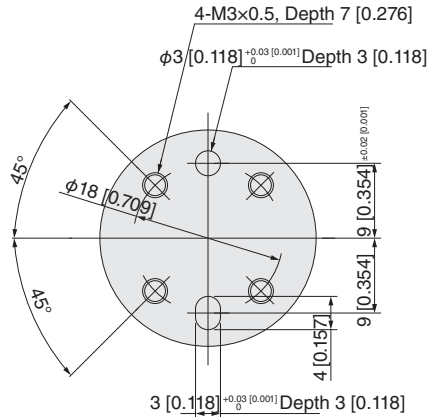
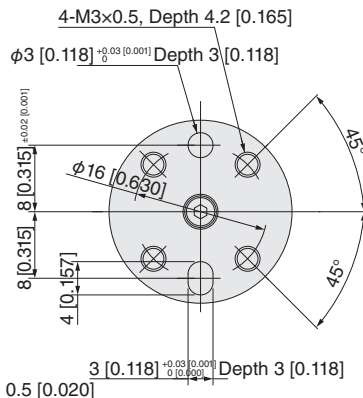
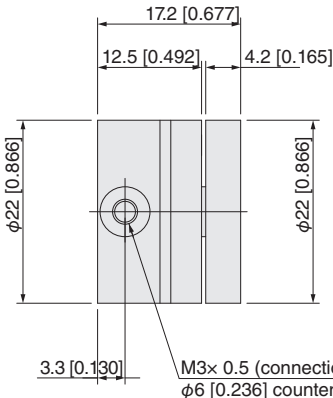
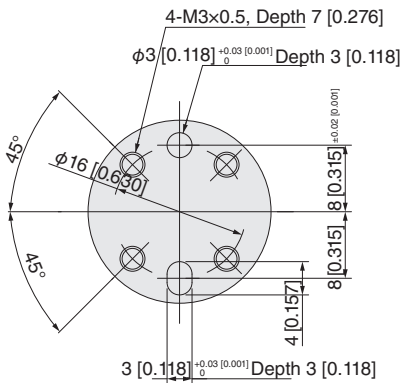
* Retaining force: Force that maintains the center position of the X and Y directions when air pressure is applied



● Retaining moment

* Retaining moment: Force that maintains the center position of the θ direction when air pressure is applied





Limited Warranty

KOGANEI CORP. warrants its products to be free from defects in material and workmanship subject to the following provisions.

Warranty Period The warranty period is 180 days from the date of delivery.

Koganei Responsibility If a defect in material or workmanship is found during the warranty period, KOGANEI CORP. will replace any part proved defective under normal use free of charge and will provide the service necessary to replace such a part.

Limitations

- This warranty is in lieu of all other warranties, expressed or implied, and is limited to the original cost of the product and shall not include any transportation fee, the cost of installation or any liability for direct, indirect or consequential damage or delay resulting from the defects.

- KOGANEI CORP. shall in no way be liable or responsible for injuries or damage to persons or property arising out of the use or operation of the manufacturer's product.

- This warranty shall be void if the engineered safety devices are removed, made inoperative or not periodically checked for proper functioning.

- Any operation beyond the rated capacity, any improper use or application, or any improper installation of the product, or any substitution upon it with parts not furnished or approved by KOGANEI CORP., shall void this warranty.

- This warranty covers only such items supplied by KOGANEI CORP. The products of other manufacturers are covered only by such warranties made by those original manufacturers, even though such items may have been included as the components.

The specifications are subject to change without notice.

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