

Pivot clamp

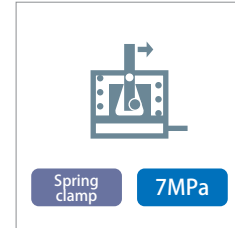
model **CGP**
Spring clamp 7 MPa



Pascal
www.pascaleng.co.jp

Pivot clamp

model
CGP



Spring type that is best suited for light cutting process on thin workpieces

Patented

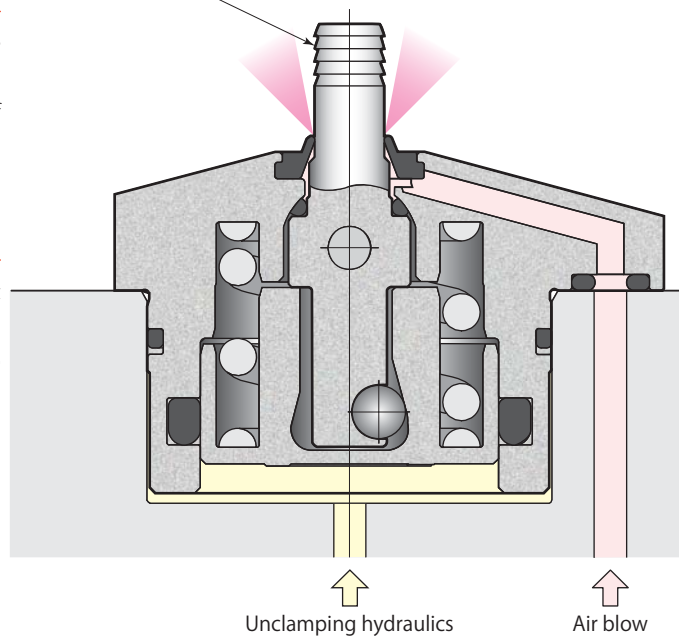
Compact design with enhanced built in structure

Spring force is amplified to provide strong clamping force by using wedge mechanism and principle of leveraging.

Air blow feature

Air blow circuit is built in to prevent adhesion and intrusion of metal chips and coolant to clamp pin tip section and clamp interiors.

Clamp pin

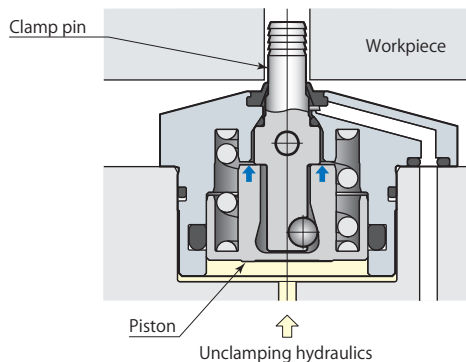


High strength & wedge shaped clamp pin

Features superior wear resistance due to stainless steel and hardening, ensuring secure clamping of workpiece with edge of leading tip.

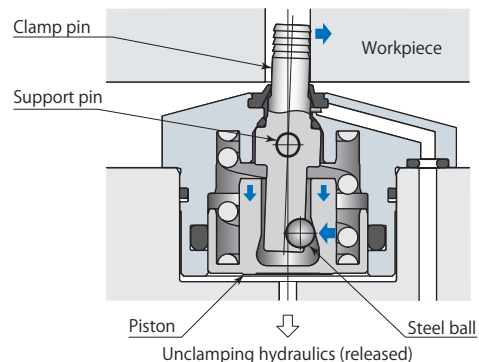
① Unclamp

Unclamping hydraulic pressure causes the piston to ascend, and the clamp pin is pushed by upper edge of piston, at perpendicular angle.



② Clamp

When unclamping hydraulic pressure is released, piston descends due to spring force and pushes the ball sideways. The clamp pin tilts with support pin at the center and clamps onto the workpiece.



CGP	Pivot clamp	7MPa	Spring clamp
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Specifications

Model	Standard	CGP01-06 ^A _B	CGP01-07 ^A _B	CGP01-08 ^A _B	CGP02-09 ^A _B	CGP02-10 ^A _B	CGP02-11 ^A _B	
	Low clamping force	CGP01L-06 ^A _B	CGP01L-07 ^A _B	CGP01L-08 ^A _B	CGP02L-09 ^A _B	CGP02L-10 ^A _B	CGP02L-11 ^A _B	
Clamping force*	Standard	kN	0.63–0.72–0.73			0.98–1.30–1.34		
	Low clamping force	kN	0.28–0.36–0.37			0.48–0.81–0.86		
Clamping hole diameter	Standard hole diameter	mm	ø6	ø7	ø8	ø9	ø10	ø11
	Allowable range	mm	ø5.8–7.5	ø6.8–8.5	ø7.8–9.5	ø8.8–10.5	ø9.8–11.5	ø10.8–12.5
Max. clamp stroke	mm	1.0			1.0			
Cylinder capacity (unclamp)	cm ³	2.16			3.18			
Insert depth	mm	2.0–10.0			2.0–10.0			
Mass	kg	0.29			0.34			

- Pressure range: 2–7 MPa ● Proof pressure: 10.5 MPa ● Operating temperature: 0–70 °C
- Fluid used: General mineral based hydraulic oil (ISO-VG32 equivalent) ● Recommended air blow pressure: 0.3–0.4 MPa

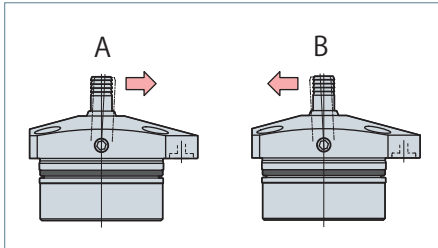
*: Clamping force changes as angle of clamp pin changes depending on clamp hole diameter.

Values shown in the table represent clamping force for clamping hole for maximum hole diameter, standard hole diameter and minimum hole diameter.

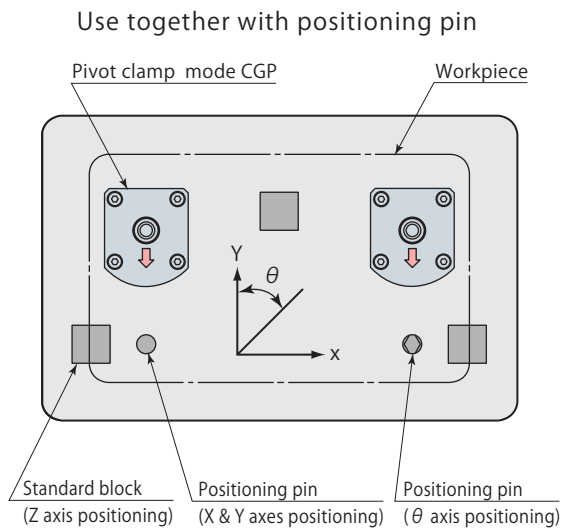
(Example) For CGP01-06A, clamping force is 0.63 kN for hole diameter of ø7.5 mm, 0.72 kN for hole diameter of ø6 mm and 0.73 kN for hole diameter of ø5.8 mm.

Model designation

CGP ①②-③④ (Example : CGP01L-06A)

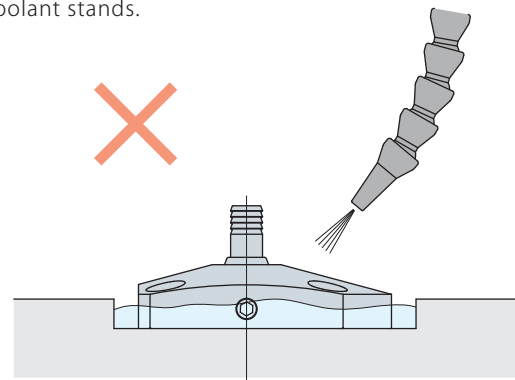
	① Size	② Clamping force	③ Clamping hole diameter	④ Clamping direction
CGP	01	(Nil) : Standard L : Low clamping force	06 : ø6 mm 07 : ø7 mm 08 : ø8 mm	
	02	(Nil) : Standard L : Low clamping force	09 : ø9 mm 10 : ø10 mm 11 : ø11 mm	

Usage example

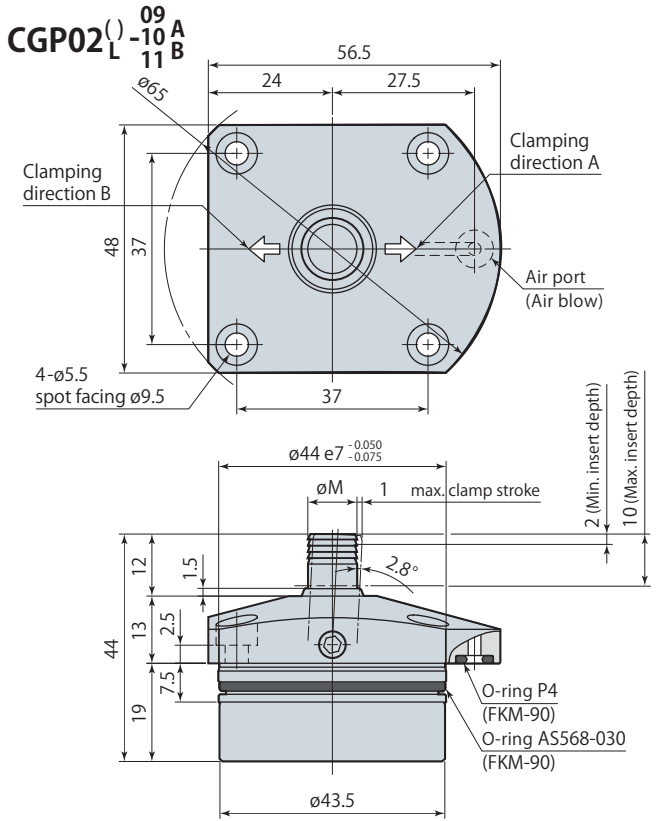
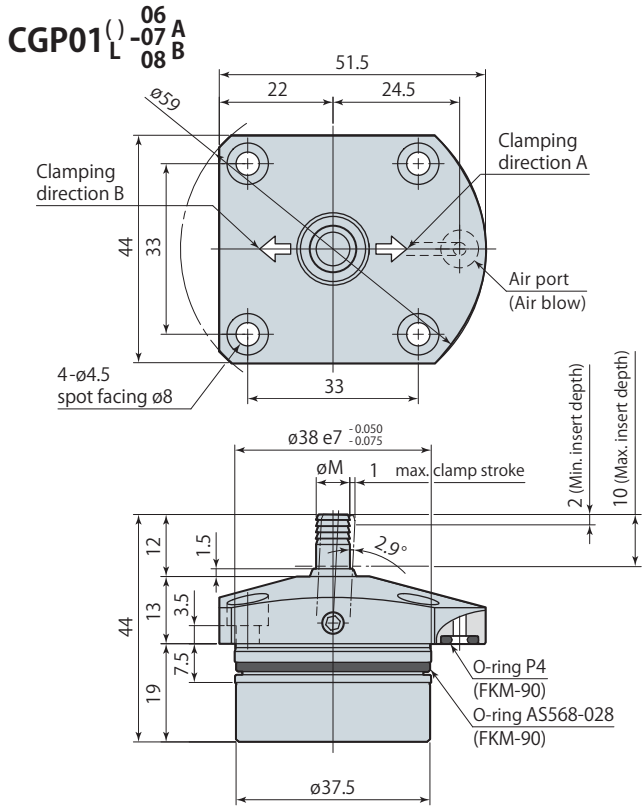


Caution in use

Avoid splashing coolant over the clamp as much as possible.
Also keep the clamp away from the area where the coolant stands.

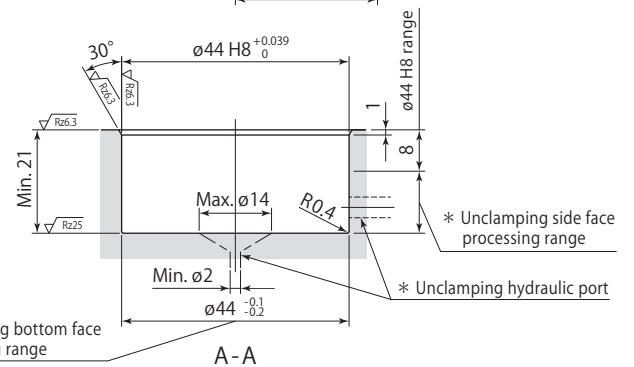
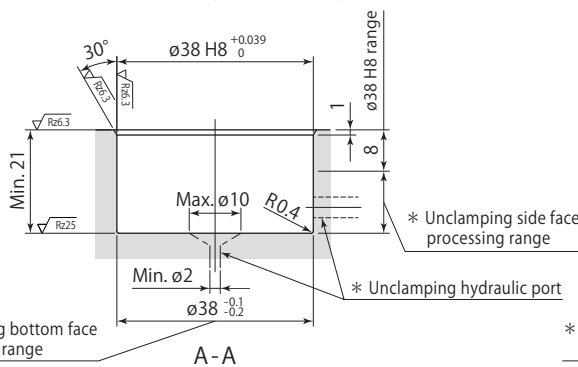
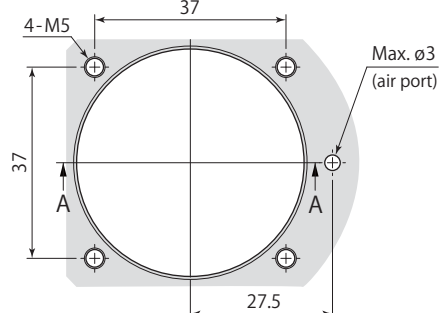
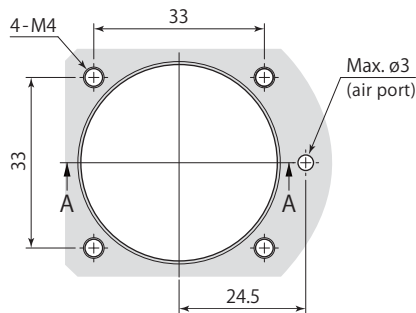


Dimensions



Mounting details

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Rz: ISO4287(1997) mm

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Model	CGP01 ^() _L -06 ^A _B	CGP01 ^() _L -07 ^A _B	CGP01 ^() _L -08 ^A _B
M (clamp pin diameter)	5.5	6.5	7.5

Model	CGP02 ^() _L -09 ^A _B	CGP02 ^() _L -10 ^A _B	CGP02 ^() _L -11 ^A _B
M (clamp pin diameter)	8.5	9.5	10.5

* : Unclamping hydraulic port must be made on either side or bottom face.

● This diagram indicates unclamped condition. ● Mounting screws are not included.