



## 公司概要

(株)KJF(卡吉富)是专业生产工装夹具设备所需的肘节夹钳、气液压夹紧器以及旋转接头、加速器、工件支撑器、旋转垫、流量控制阀等产品的企业。公司总部位于釜山,并在首尔有分公司。无线竞争和无法未知的时代,公司不仅为了在韩国本土市场站稳脚跟而且为了进而进军海外市场,全体员工时刻站在客户的立场上竭尽全力生产客户所需满意的产品。

公司自1984年成立以来在韩国率先研制开发铣床专用夹具设备、焊接自动化设备、检查工具、组装自动化生产线、半导体组装设备、加工专用器等设备中所需的气液压自动化夹紧器,并为了生产工装夹具所需的要素产品持续投资。

标准化夹紧器零件是通讯器械、光学仪器、纤维、农业机器、真空装备、化学工业、航空仪器、橡胶、造船、家庭用电子仪器、重电机器、原动机、重作业用机器、铁道、食品机械、自动化设备、夹具等产品上非常重要的部件。

本公司通过生产的产品全数质量检查,将不良率控制在最小化,并以产品的优异品质,有竞争力的价格,高精密度、高效率的最佳产品而自豪。标准件产品以外,根据客户的工作环境和需求,公司提供特殊规格的产品和解决方案。任何时候需要我们的咨询和帮助请随时联系我们。

(株)KJF(卡吉富)全体员工为了提高产品质量和功效,精心地不分昼夜地努力工作。请各位关注我司,为了报答各位的应援,我们将竭尽全力。

谢谢!

## CORPORATE PROFILE

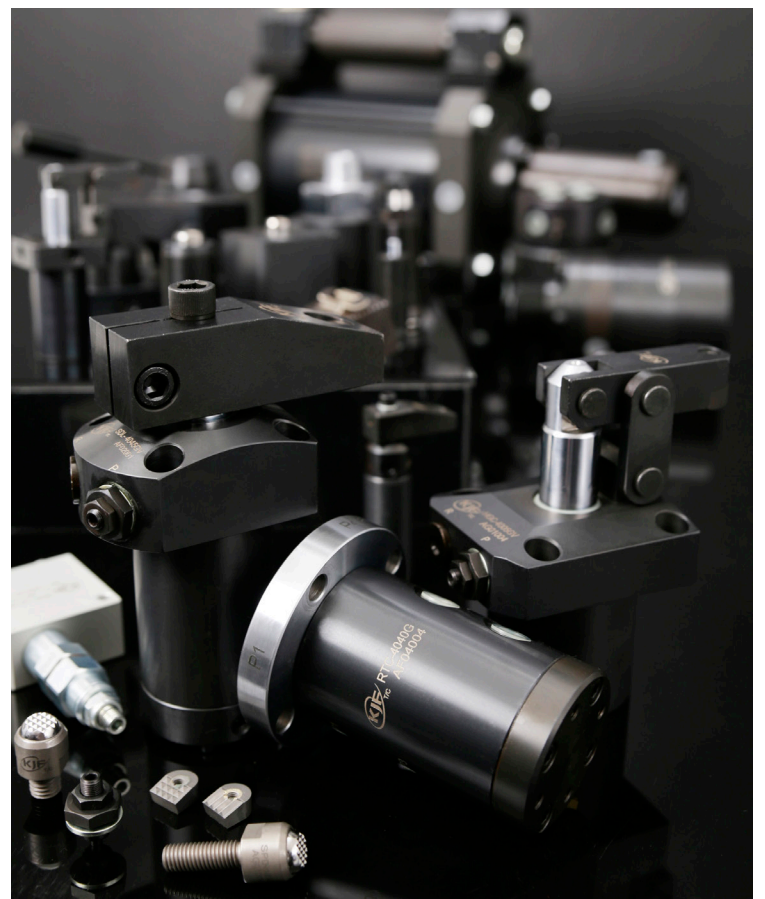
KJF is a manufacturer specializing in products for work holding systems, including toggle clamps, hydraulic/pneumatic clamps, rotary joints, boosters, work supports, swivel pads and flow control valves etc.. Headquartered in Busan with a branch office in Seoul, we endeavor to create products manufactured from the customer's perspective. In the era of limitless competition, the KJF team is dedicated to expanding company operations into overseas markets.

Established in 1984, we have been leading the research and development of hydraulic/pneumatic automation clamps for milling fixture, welding automation facility, inspection jig, assembly automation line, semiconductor assembly facility, Jig & fixture, machining center etc. for more than 30 years, and we are investing continuously in manufacturing essential parts for the jig & fixture industry.

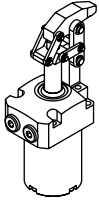
Standardized components are critical parts of the automotive, jig & fixture, telecommunication equipments, optic equipments, agriculture machines, vacuum equipments, chemical industry, aviation equipments, rubber, ship building, household electronic equipments, heavy electric equipments, motor, heavy duty equipments, railroad industry, grocery machines etc..

We minimize defect rate through quality inspection of products, and as a result we, are fully confident in our products in terms of precision, efficiency, and price. In addition to standard products, we also provide swift and accurate solutions for custom specifications. We are standing by to assist you with any inquiries and troubleshooting.

KJF is focused ceaselessly on improving product quality and efficiency. We will continue to exceed expectations on a solid foundation of your continued interest and support. Thank you.



**Multi-Link Clamp** 连杆多重链接式夹紧器



> P3-4

**Auto Coupler** 自动耦合器



> P5-6

**Work Support** 工件支撑器

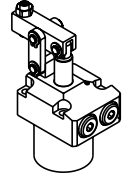
Low Pressure Built-In 11  
Low Pressure Flange 12  
Block Type 13, Bracket 14



> P7-14

**Hinge(Link) Clamp** 连杆式夹紧器

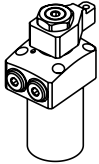
小巧型 17-20, 油路板型 21-24  
管道类型 25-30  
气动型 31-32



> P15-34

**Swing Clamp** 旋转式夹紧器

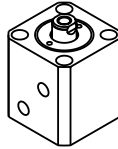
小巧型 37-40  
顶法兰型 41-44, 底部法兰型 45-47  
气动型 51-52



> P35-52

**Block Clamp** 块式夹紧器

垂直型 55-60  
水平型 61-66



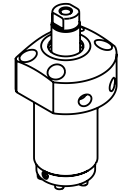
> P53-66

**Built-In Clamp** 内置式夹紧器



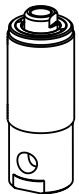
> P67-70

**Flange Clamp** 法兰盘式夹紧器



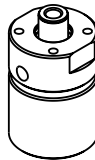
> P71-74

**Threaded Body Clamp** 螺纹式夹紧器



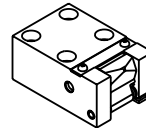
> P75-78

**Hollow Clamp** 空心式夹紧器



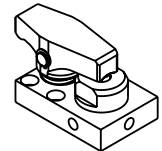
> P79

**Edge Clamp** 边缘式夹紧器



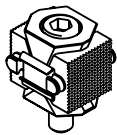
> P80

**Rocker Clamp** 摇臂式夹紧器



> P81-82

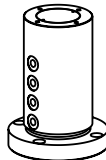
**Vise Clamp** 虎钳式夹紧器



> P83-86

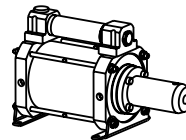
**Rotary Joint** 旋转接头

法兰型 89-92, 嵌入式型 93-96  
小巧型 97-100, 顶型 101-102  
外螺纹型 103-105, 旋转分配阀 107-108



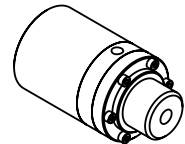
> P87-108

**Booster** 增压缸



> P109-110

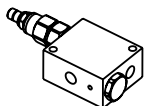
**Intensifier** 油压增强器



> P111-112

**Valve** 阀

顺序阀 113-114  
流量控制阀 115  
换向阀 116



> P113-116

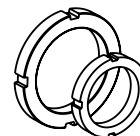
**Work Pad** 垫

旋转垫 117-118  
Tungsten Carbide Gripper Pad 119-120



> P117-120

**Mounting Base** 安装锁母



> P121

**Customized Clamp** 订制品 122

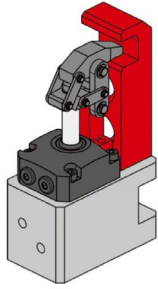
**Pneumatic Clamp** 气动式夹紧器  
连杆多重链接式夹紧器 3-4  
连杆式夹紧器 31-32  
旋转式夹紧器 51-52

**Concept Map** 概念图 123-124  
**Warranty** 质保 125

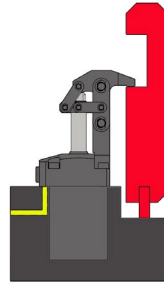
## Multi-LinkClamp 连杆多重链接式夹紧器 Gasket Type 油路板型

安装很好的避开干扰!! Clamping to avoid interference!!

Application 应用



Manifold Method 座垫式配管



Operation 使用



Model No. 型号

MLC-2547GV

MLC	-	25	47	GV
1		2	3	4

**1** Clamp Type 夹紧器类型  
MLC = Multi-Link Clamp 连杆多重链接式夹紧器

**2** Piston Diameter 内径  
ex) 25 =  $\varnothing 25$

**3** Housing Diameter 外径  
ex) 47 =  $\varnothing 47$

**4** Type 类型  
> G = Gasket 油路板型  
> GV = Gasket + Flow control valve, Meter-in method  
油路板型 + 流量控制阀, 出油节流

## Specification 规格

型号	夹紧力 (kgf)	内径(Ø)	油缸面积 (cm <sup>2</sup> )	行程(mm)		油缸容量 (cm <sup>3</sup> )		使用油压范围 (kgf/cm <sup>2</sup> )	使用环境温度 (°C)	重量(kg)
	①70kgf/cm <sup>2</sup>			全行程	行程余量	夹紧 (Push)	放松 (Pull)			
MLC-2547G	328	25	4.9	31.5	2.5	15.4	8.5	15~70 [油压] 3~9.99 [空气压力]	0~60	1.51
MLC-3255G	442	32	8.04	35.5	2.5	28.5	23.2			2.22
MLC-4065G	737	40	12.56	41.0	3.0	51.5	43.3			3.68
MLC-5080G	1,188	50	19.63	47.0	3.0	92.3	77.7			5.86

NEW

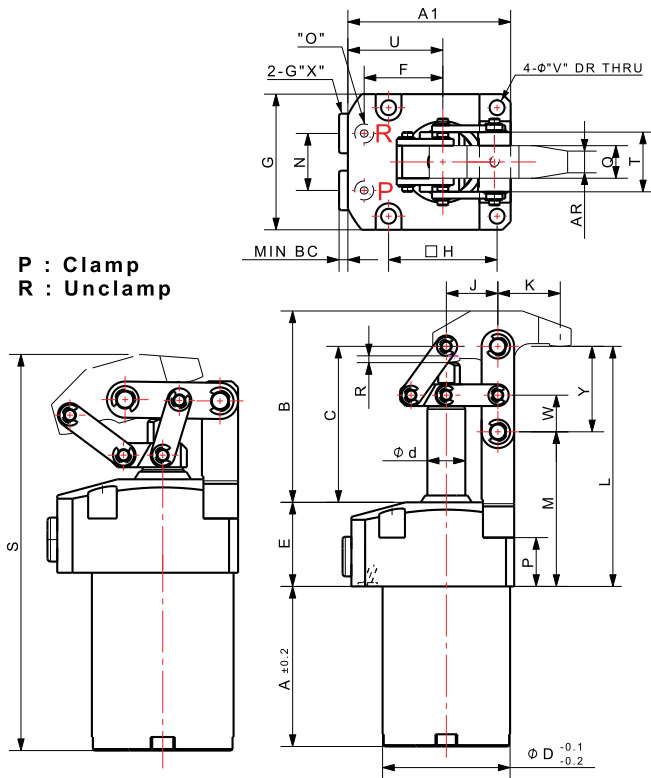


Clamping

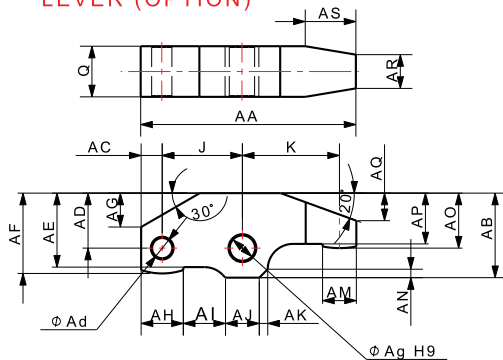
Unclamping

\* 订购时，请注明液压式或气动式。

\* Please mention Hydraulic Type or Pneumatic Type when you order.



LEVER (OPTION)



## Multi-Link Clamp 连杆多重链接式夹紧器

### G Type 油路板型

特性

1. 安装很好的避开干扰
2. 油压/气压都可适用
3. 复动式
4. 内径范围:  $\phi 25\sim 50$
5. 使用油压范围: 15~70(油压), 3~9.9(空气压力) kgf/cm<sup>2</sup>
6. 使用环境温度: 0~60°C
7. 夹紧臂可选。

Features

1. Clamping to avoid interference
2. Operating with hydraulic and pneumatic system
3. Double-acting
4. Piston Diameter:  $\phi 25\sim 50$
5. Operating Pressure: 15~70(Oil), 3~9.9(Air)kgf/cm<sup>2</sup>
6. Operating Temperature: 0~60°C
7. Lever is option item

#### > MLC-2547 G

① ② ③

① 内径(mm) ② 外径(mm) ③ 油路板型

#### Dimensions

MODEL NO.	MLC-2547G	MLC-3255G	MLC-4065G	MLC-5080G
A	59.0	70.0	79.0	86.0
A1	60.0	67.0	80.0	93.0
B	70.5	79.5	98.0	111.0
C	57.5	64.5	80.0	89.0
$\phi D$	47.0	55.0	65.0	80.0
$\phi d$	14.0	14.0	16.0	20.0
E	31.0	31.0	38.0	44.0
F	29.0	32.0	37.0	44.0
G	50.0	59.0	69.0	84.0
H	40.0	47.0	55.0	67.0
J	19.0	21.5	24.5	30.0
K	23.0	28.0	31.0	37.0
L	88.5	95.5	118.0	133.0
M	57.0	60.5	72.5	83.0
N	21.0	21.0	25.0	28.0
O	P4	P4	P6	P6
P	18.0	17.0	21	23.0
Q	12.0	16.0	19.0	22.0
R	2.5	2.5	3.0	3.0
S	131.4	148.2	171.4	193.5
T	22.0	28.0	36.0	42.0
U	35.0	37.5	45.5	51.0
V	5.5	6.6	9.0	11.0
W	13.5	15.0	17.5	19.0
X	G1/8	G1/8	G1/4	G1/4
Y	31.5	35.0	45.5	50
AA	51.0	59.0	66.5	78.0
AB	20.0	23.0	28.0	34.0
AC	5.0	5.5	7.0	7.0
AD	13.0	15.0	18.0	22.0
$\phi Ad$	4.8	5.8	6.8	6.8
$\phi Ag$	6.0	8.0	10.0	12.0
AE	17.5	19.5	24.5	29.0
AF	19.0	21.0	26.0	32.0
AG	8.0	10.0	14.0	16.0
AH	10.0	11.0	14.0	14.0
AI	10.0	11.0	12.5	16.0
AJ	8.0	8.0	10.0	12.0
AK	2.0	5.0	5.0	7.0
AM	8.0	8.0	8.0	8.0
AN	2.0	3.0	5.0	5.0
AO	13.0	15.0	18.0	22.0
AP	12.0	14.0	17.0	21.0
AQ	6.5	8.0	9.5	10.6
AR	8.0	12.0	14.0	16.0
AS	12.0	16.0	17.0	20.0

# Auto Coupler Air Type 气动式 自动耦合器

> ACA-2001

> ACA-2002



### 特性

1. 使用气压范围: 10kgf/cm<sup>2</sup> 以下
2. 用于流体回路连接的耦合器
3. 结构紧凑, 适用于自动

### Features

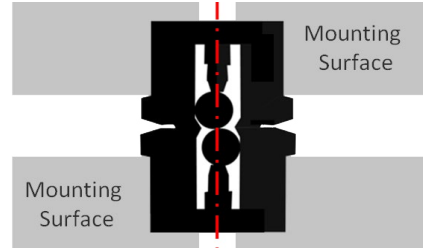
1. Operating Pressure Range : lower than 10kgf/cm<sup>2</sup>
2. Coupler for connecting fluid circuit
3. Compact and suitable for automatic

连接状态 >>

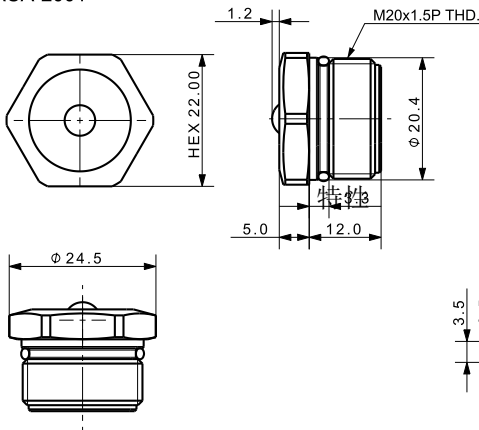
上下耦合器接触的时候  
一侧耦合器的单向阀会挤压另  
一侧的单向阀并开放连接

Connected State >>

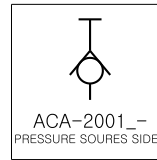
When upper contacts with  
lower coupler, one check valve  
pushes the other to open.



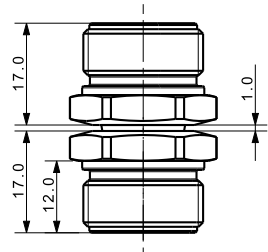
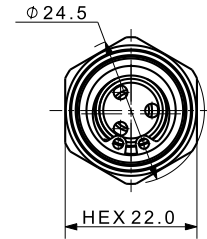
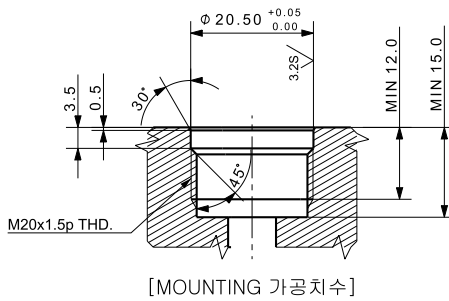
>ACA-2001



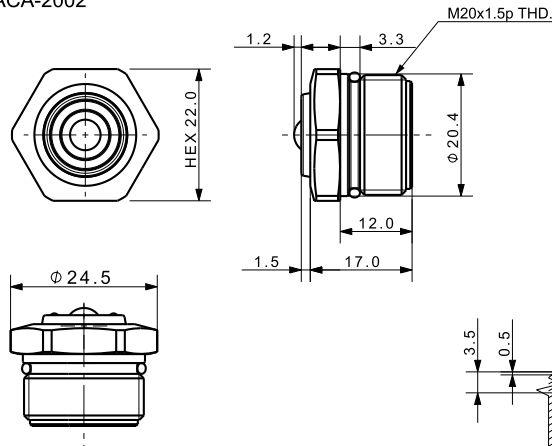
CIRCUIT SYMBOL



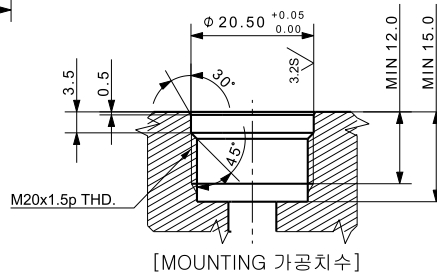
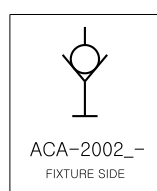
### Features



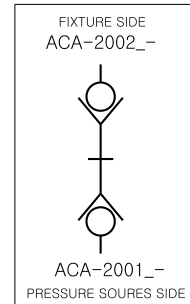
>ACA-2002



CIRCUIT SYMBOL



CIRCUIT SYMBOL



# Auto Coupler Oil Type 油压型 自动耦合器

> ACO-1801F

> ACO-1802F



### 特性

1. 使用油压范围: 250kgf/cm<sup>2</sup> 以下
2. 用于流体回路连接的耦合器
3. 结构紧凑, 适用于自动

### Features

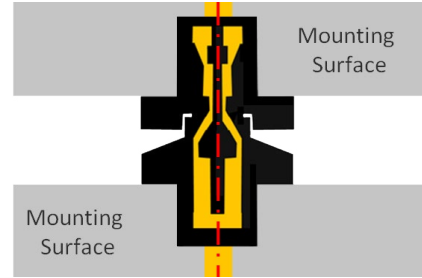
1. Operating Pressure Range : lower than 250kgf/cm<sup>2</sup>
2. Coupler for connecting fluid circuit
3. Compact and suitable for automatic

连接状态 >>

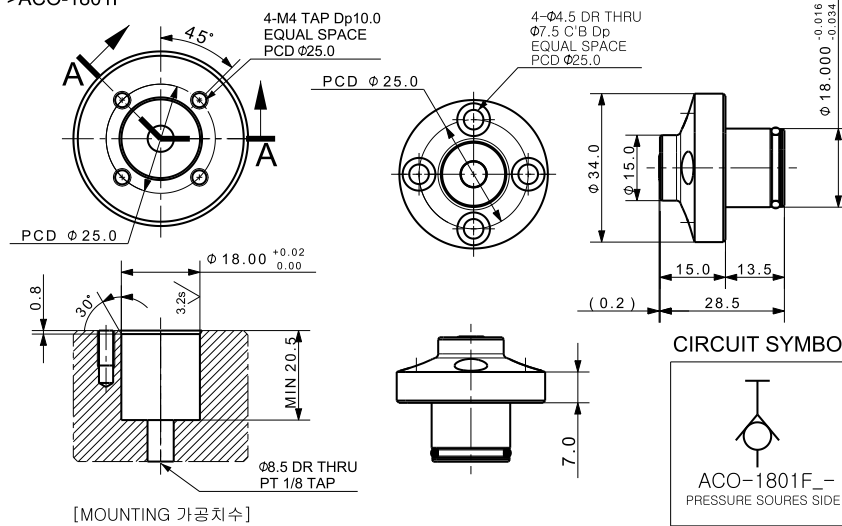
上下耦合器接触的时候  
一侧耦合器的单向阀会挤压另  
一侧的单向阀并开放连接

Connected State >>

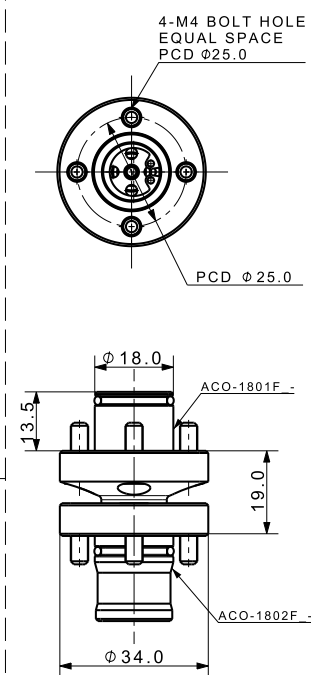
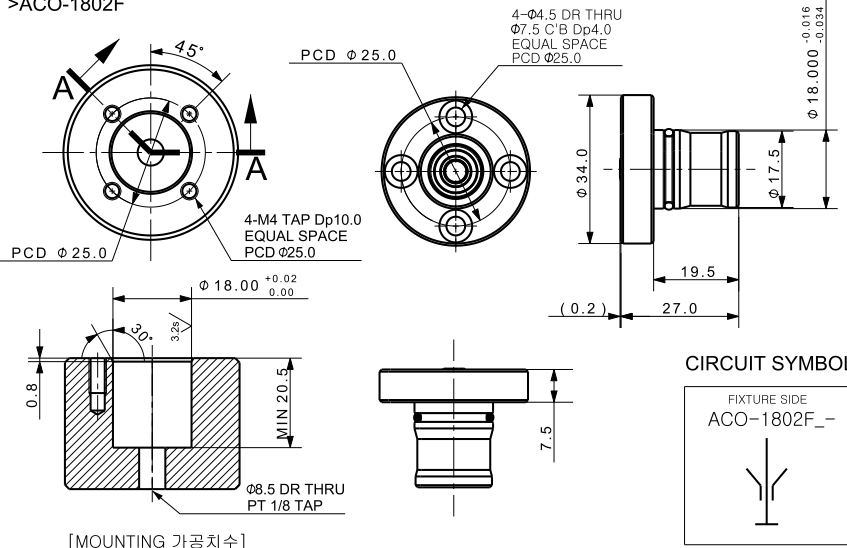
When upper contacts with  
lower coupler, one check valve  
pushes the other to open.



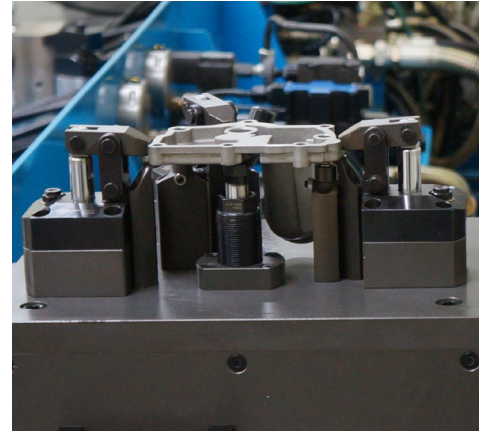
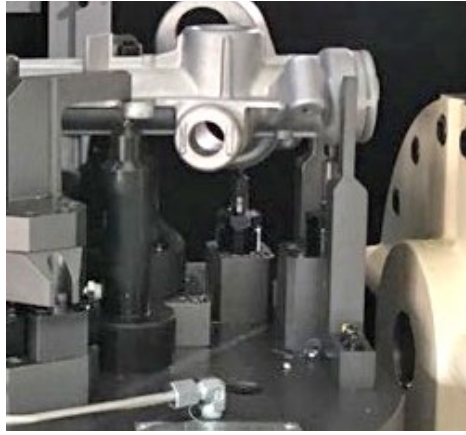
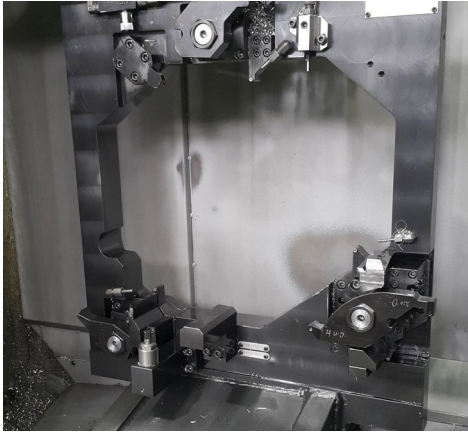
>ACO-1801F



>ACO-1802F



## Work Support Applications 工件支撑器



## Types 类型

NEW



Low Pressure Built-In Type  
(低压用)内置式

NEW



Low Pressure Flange Type  
(低压用)法兰盘式

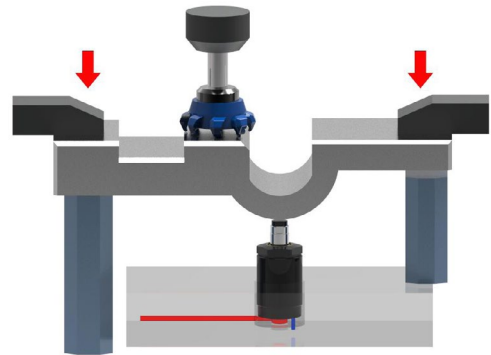


Block Type  
块式

## Work Support Introduction 工件支撑器介绍

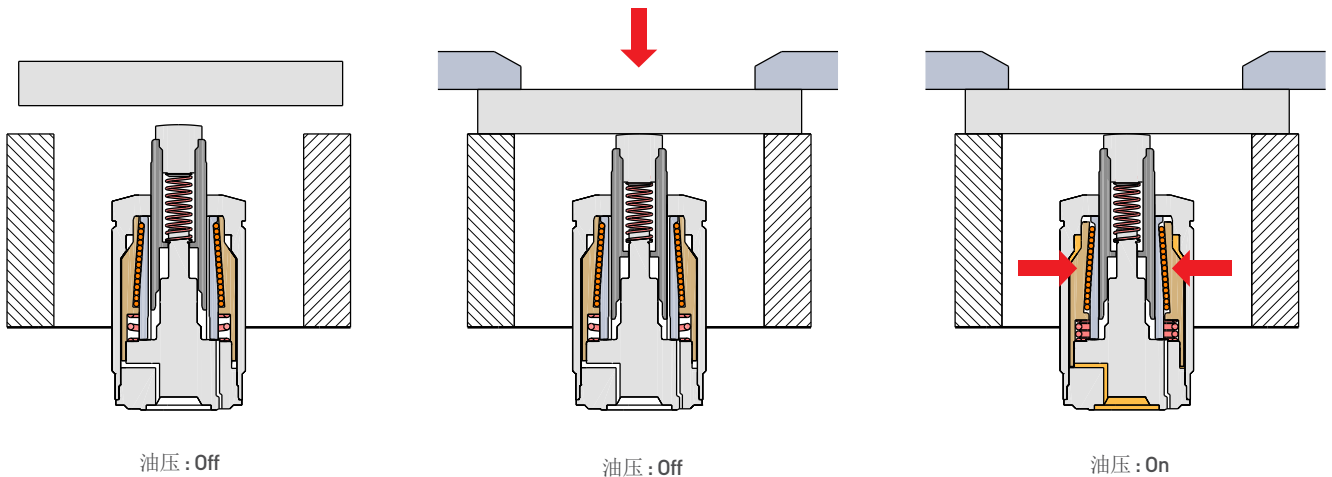
工件支撑器是为了防止因切削力导致的工作物的下沉或晃动而使用的工具。工件支撑器维持工作物加工面的精度及减少工具的晃动，因此可以延长工具的使用寿命。

Work Support prevents chatter and deformation caused by cutting load during machining workpiece. Since it maintains machining accuracy of workpiece and reduces tool vibration, tool life is extended.

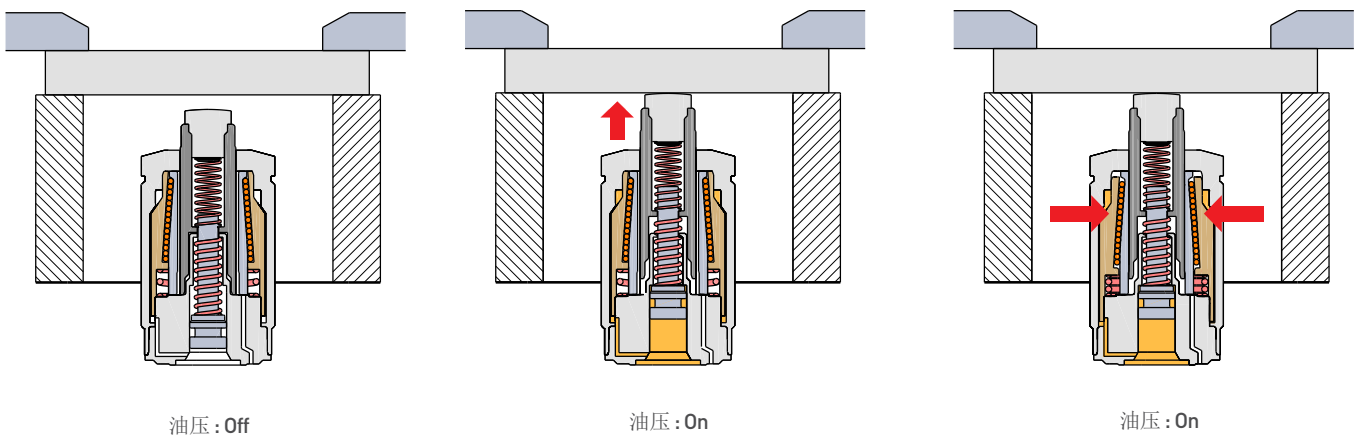


## Action Description 动作说明

**Spring Advance** 弹簧升起类型：支撑柱塞杆下降后固定

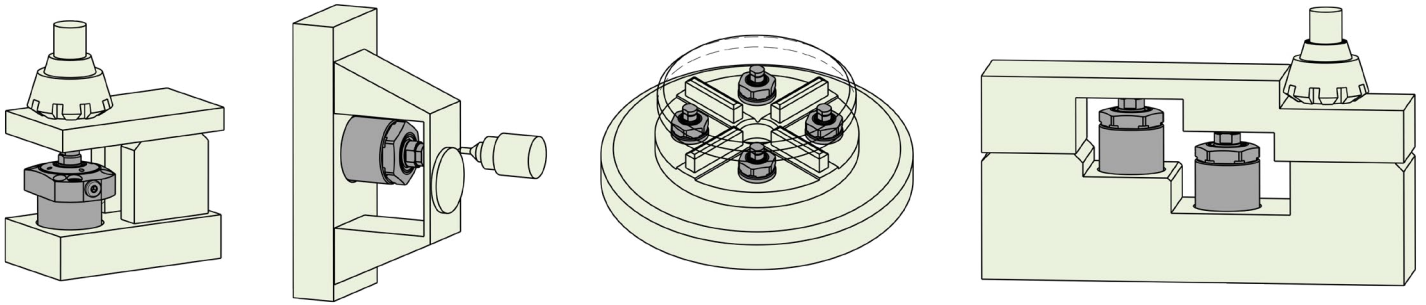


**Hydraulic Advance** 液压升起类型：支撑柱塞杆上升后固定





## Work Support Applications 应用



## Model No. 型号

### CWS-20122FG

<b>CWS</b>	-	<b>20</b>	<b>12</b>	<b>2</b>	<b>FG</b>
1		2	3	4	5

**1** CWS = Work Support

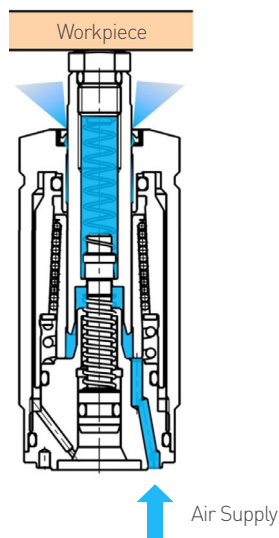
**2** Plunger Diameter 内径  
ex) 20 =  $\varnothing 20$

**5** No sign = Built-In Type  
FG = Flange Gasket Type

**3** Stroke 行程  
ex) 12 = 12mm

**4** Action Type 动作类型  
ex) 1 = Spring Advance 弹簧升起类型  
2 = Hydraulic Advance 液压升起类型

### ★ Air Purge Function 空气净化功能



\* 注意 : 为确保顺滑的动作, 防止异物进入的前提下尽可能最大程度开放通风口。

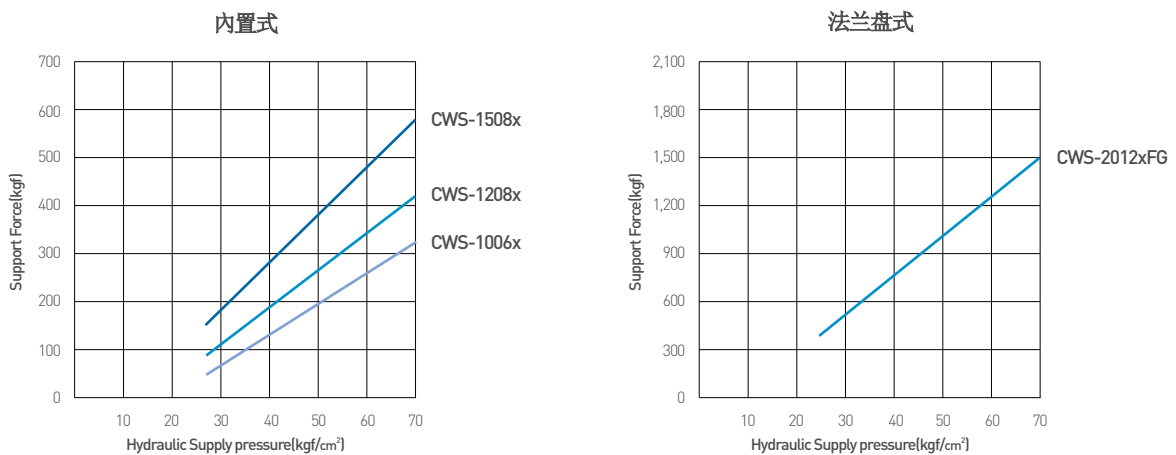
\* Note : To ensure proper operation, the air vent must be opened to the atmosphere with preventing foreign matter from entering.

# Specification 小巧型

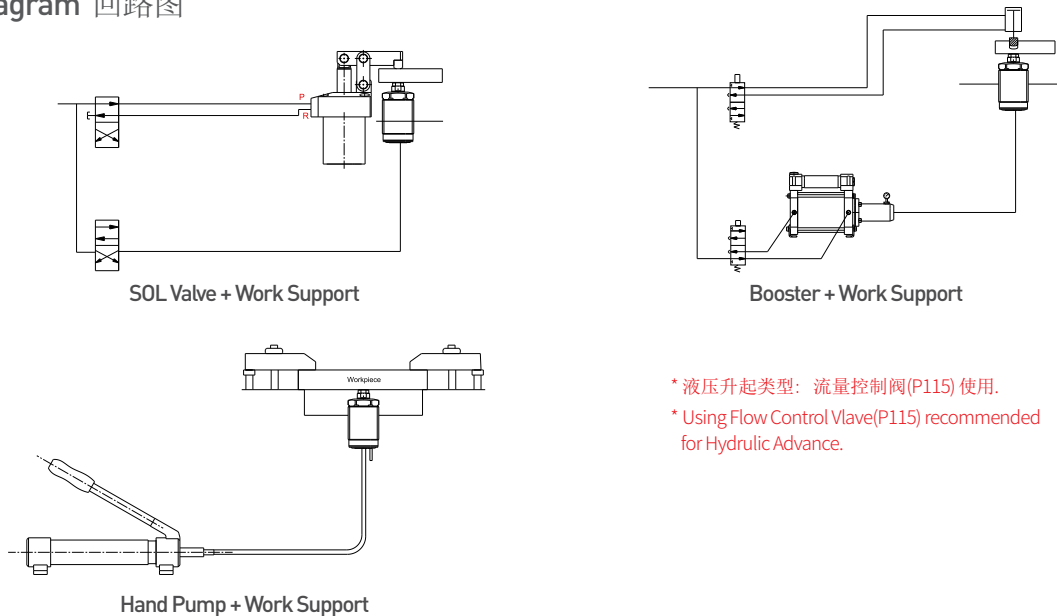
## Low Pressure Work Support 工件支撑器(低压用)

型号	CWS-10061	CWS-10062	CWS-12081	CWS-12082	CWS-15081	CWS-15082	CWS-20121FG	CWS-20122FG
类型	内置式						法兰盘式	
作动	弹簧升起类型	液压升起类型	弹簧升起类型	液压升起类型	弹簧升起类型	液压升起类型	弹簧升起类型	液压升起类型
支持力(kgf) at 70kgf/cm <sup>2</sup>	309.0	309.0	407.9	407.9	560.8	560.8	1580.6	1580.6
行程 (mm)	6	6	8	8	8	8	12	12
内径(Ø)	10	10	12	12	15	15	20	20
油缸容量(cm <sup>3</sup> )	0.3	0.6	0.5	0.9	0.6	1.3	2	3.3
弹簧弹力 (kgf)	0.28-0.41	0.28-0.41	0.3-0.5	0.3-0.5	0.95-1.40	0.95-1.40	0.96-1.75	0.96-1.75
使用油压范围	25 ~ 70 kgf/cm <sup>2</sup>							
使用环境温度	0 ~ 70°C							
重量 (kg)	0.19	0.19	0.28	0.27	0.38	0.37	1.34	1.30

## Supporting Force Graph 支撑力图表



## Circuit Diagram 回路图



NEW



Spring Advance  
弹簧升起类型

Hydraulic Advance  
液压升起类型

## Low Pressure-Work Support Built-In Type

工件支撑器(低压用) 内置式夹紧器

### 特性

1. 支撑力强
2. 运行平稳
3. 弹簧/液压推进
4. 使用油压范围: 25~70kgf/cm<sup>2</sup>
5. 使用环境温度: 0~70°C
6. 建议拧紧扭矩:  
CWS-12081/2 : 510 kgf.cm (50 N.m)  
CWS-15081/2 : 612 kgf.cm (60 N.m)
7. 用力过大会造成损坏

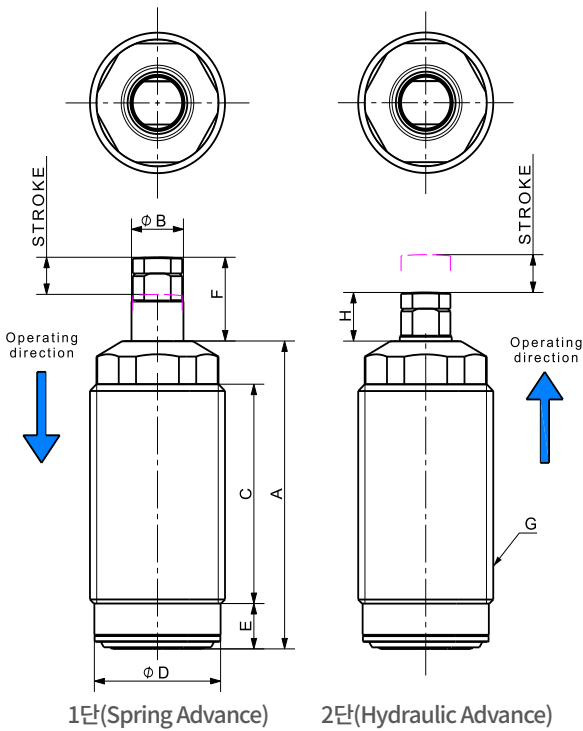
### Features

1. Strong supporting
2. Smooth operation
3. Spring/Hydraulic advance
4. Operating Pressure : 25~70kgf/cm<sup>2</sup>
5. Operating Temperature : 0~70°C
6. Recommended tightening torque for body  
CWS-12081/2 : 510 kgf.cm (50 N.m)  
CWS-15081/2 : 612 kgf.cm (60 N.m)
7. Assembly with excessive force will cause defect.

### > CWS - 12 08 1

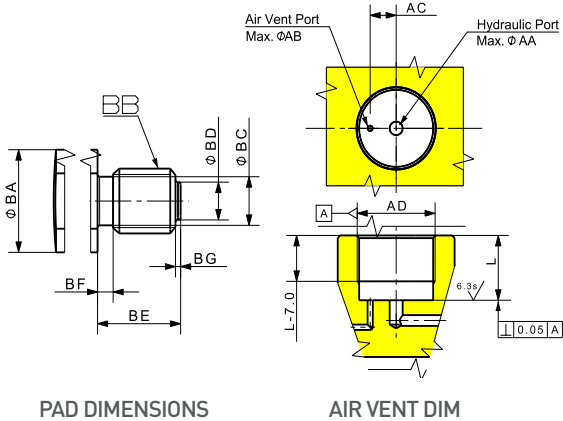
① ② ③

① 内径(mm) ② 行程(mm) ③ 作動



1단(Spring Advance)

2단(Hydraulic Advance)



PAD DIMENSIONS

AIR VENT DIM

### Dimensions

	MODEL NO.	CWS-1006x	CWS-1208x	CWS-1508x
DIMENSIONS (mm)	A	57.0	64	58.0
	B	ø10.0	ø12.0	ø15.0
	C	40.6	42.3	39.7
	øD	24.3	28.2	34.3
	E	8.4	11.4	9.8
	F	15.5	19.0	19.0
	G	M26 x 1.5P THD.	M30 x 1.5P THD.	M36 x 1.5P THD.
	H	9.0	11.0	11.0
	øAA	5.0	5.0	6.0
	øAB	2.0	2.5	3.0
	AC	9.0	10.0	12.0
	AD	M26 x 1.5P THD.	M30 x 1.5P THD.	M36 x 1.5P THD.
	øBA	9.5	11.5	12.5
	BB	M6 x 1.0P THD.	M8 x 1.25P THD.	M10 x 1.5P THD.
	øBC	4.0	6.0	8.2
	øBD	3.5	4.6	6.0
BE	8.0	10.0	10.0	
BF	1.5	2.3	2.0	
BG	0.5	1.5	1.0	

## Low Pressure-Work Support Flange Type

工件支撑器(低压用) 法兰盘式

### 特性

1. 支撑力强
2. 运行平稳
3. 弹簧/液压推进
4. 使用油压范围: 25~70kgf/cm<sup>2</sup>
5. 使用环境温度: 0~70°C

### Features

1. Strong supporting
2. Smooth operation
3. Spring/Hydraulic Advance
4. Operating Pressure : 25~70kgf/cm<sup>2</sup>
5. Operating Temperature : 0~70°C

#### > CWS-20 12 2 FG

① ② ③ ④

① 内径(mm) ② 行程(mm) ③ 作動 ④ 法兰盘式

#### > CWS-20122FG

: (液压升起类型)

NEW



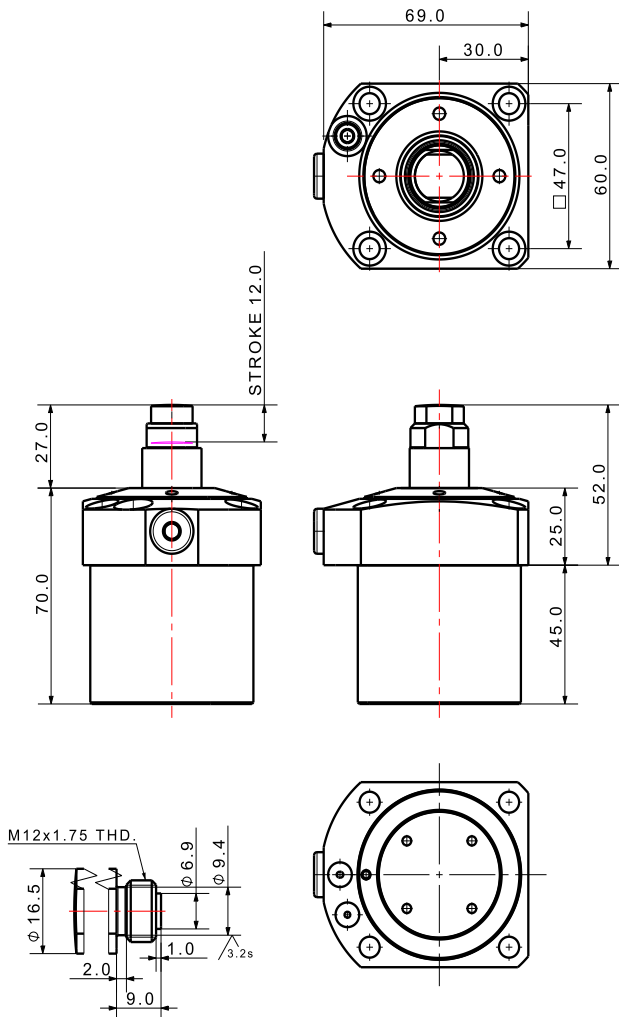
Spring Advance  
弹簧升起类型



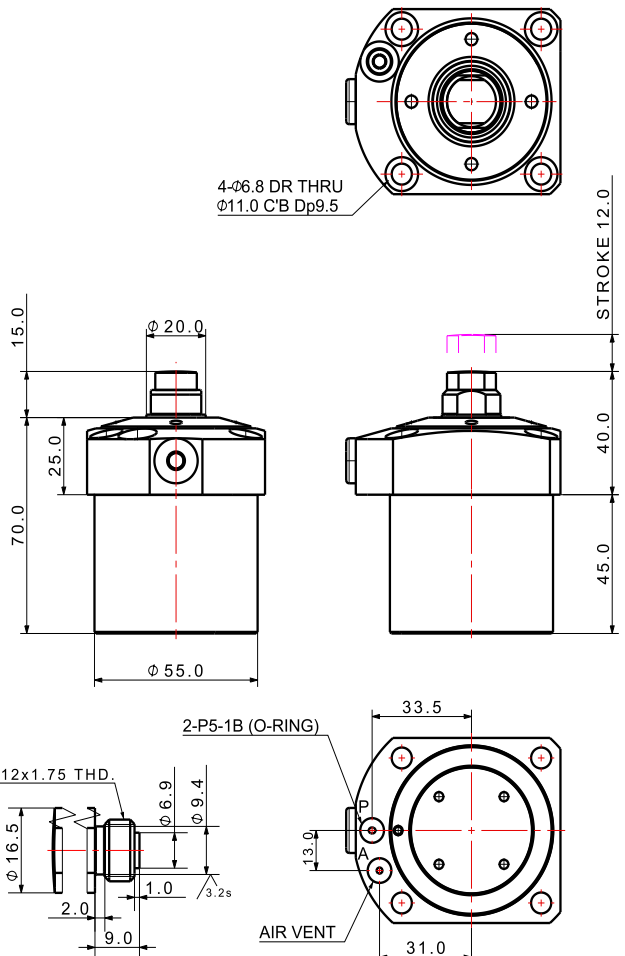
Hydraulic Advance  
液压升起类型

#### > CWS-20121FG

: (弹簧升起类型)



PAD DIMENSIONS



PAD DIMENSIONS

## Work Support

## Block Type 块式夹

工件支撑器

### 特性

1. 使用油压范围 : 5~100kgf/cm<sup>2</sup>
2. 活塞速度 : 8~100mm/s
3. 使用环境温度 : 0~60°C
4. 密封: 丁腈橡胶、聚氨酯

### Features

1. Operating Pressure : 5~100kgf/cm<sup>2</sup>
2. Piston Speed : 8~100mm/s
3. Operating Temperature : 0~60°C
4. Seal Material : Nitrile rubber, Polyurethane

#### > CWD-4010



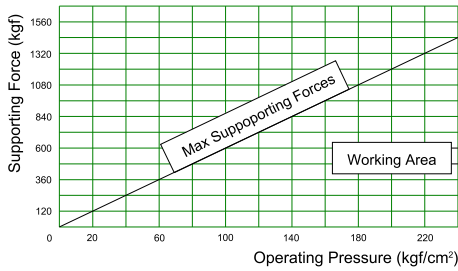
#### > CWD-4011



> CWD-4010/CWD-4011: 对称设计

> CWD-4010 and CWD-4011 are symmetry design.

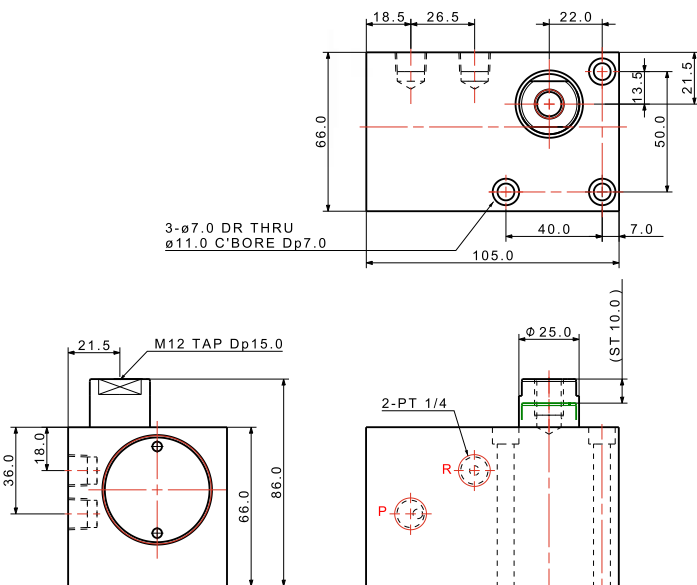
> CWD-40 10 ① 内径  
CWD-40 11 ①



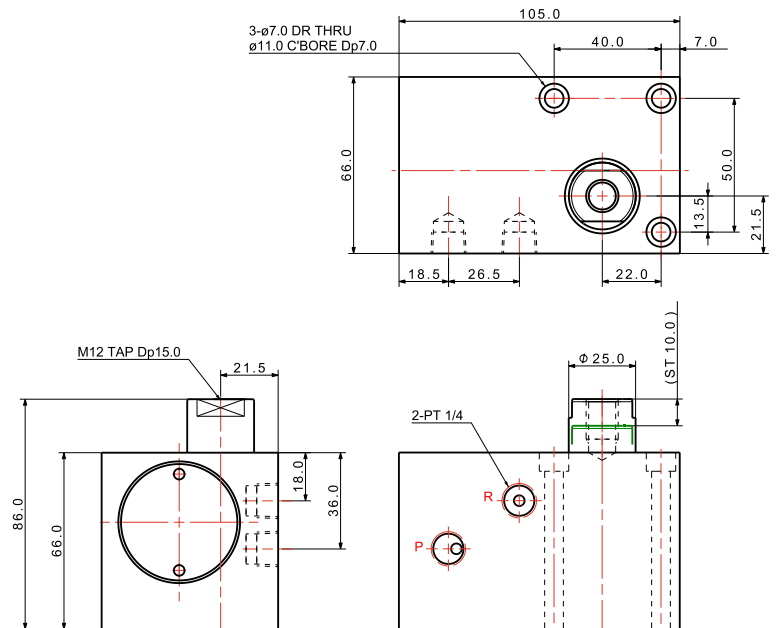
### Specification 小巧型

型号	Effective Area(cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		使用油压范围 (kgf/cm <sup>2</sup> )	重量 (kg)	弹簧力(kgf)	行程 (mm)
	Push	Pull	Push	Pull				
CWD-4010	12.56	9.42	18.84	14.13	5~100	3.2	1.7	10
CWD-4011								

#### > CWD-4010

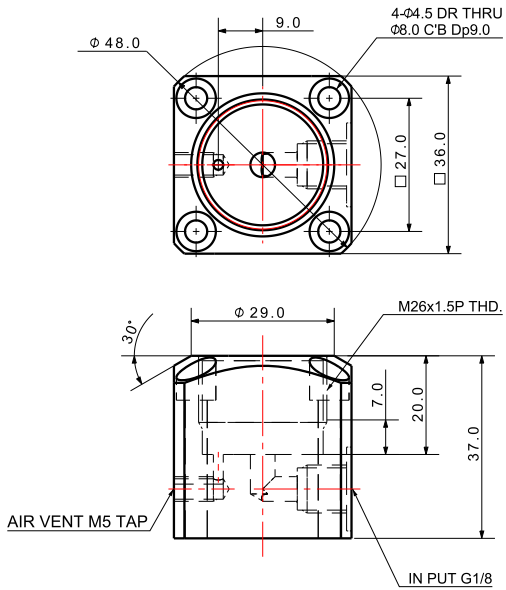


#### > CWD-4011

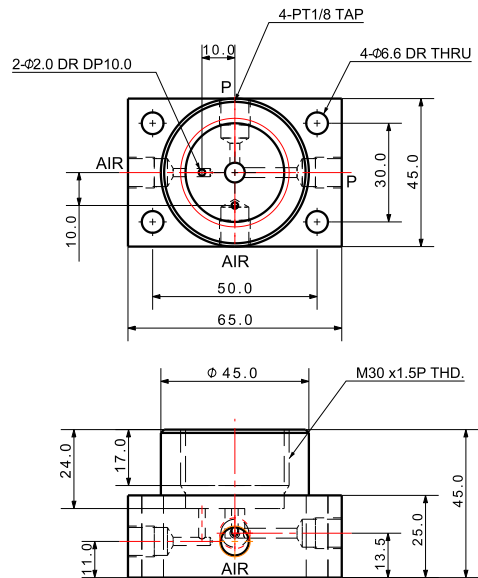


# Work Support Bracket 工件支撑器托架

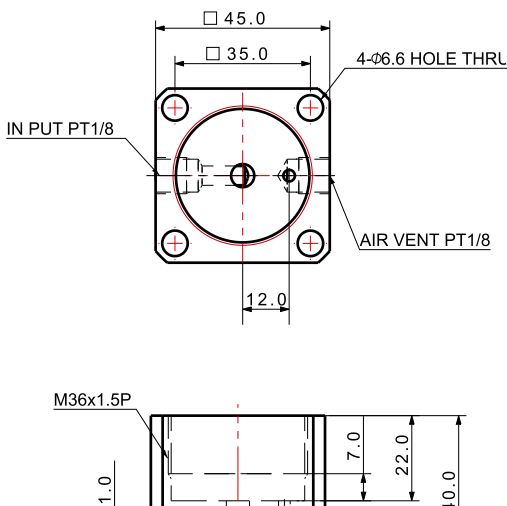
## > CWB-2637



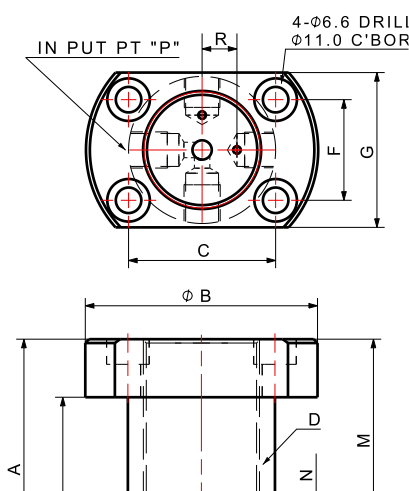
## > CWB-3045



## > CWB-3640



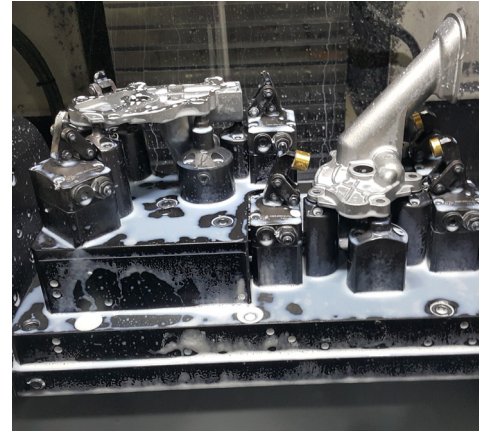
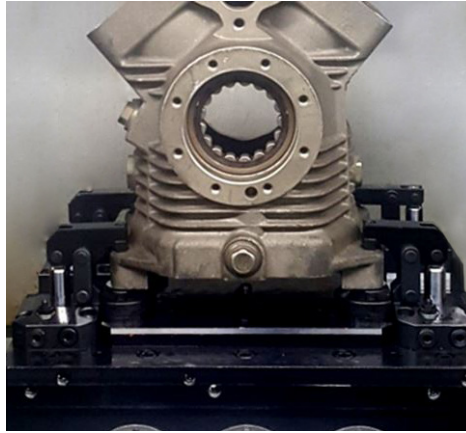
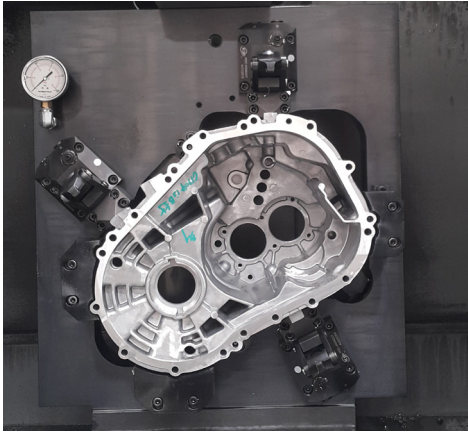
## > T Type



### Dimensions

MODEL NO.	CWB-2660	CWB-3066	CWB-3663
A	60.0	66.0	63.0
$\phi B$	$\phi 54.0$	$\phi 60.0$	$\phi 66.0$
C	31.0	38.0	42.0
D	M26 x1.5P	M30 x1.5P	M36 x1.5P
$\phi E$	$\phi 34.0$	$\phi 38.0$	$\phi 43.0$
F	25.0	26.0	30.0
G	40.0	40.0	46.0
$\phi H$	$\phi 6.6$	$\phi 6.6$	$\phi 6.6$
$\phi J$	$\phi 11.0$	$\phi 11.0$	$\phi 11.0$
K	7.0	7.0	7.0
L	45.0	51.0	48.0
M	43.0	50.0	47.0
N	7.0	7.0	7.0
O	8.0	8.0	8.0
P	PT1/8	PT1/8	PT1/8
Q	PT1/8	PT1/8	PT1/8
R	9.0	10.0	12.0

Hinge Clamp Applications 连杆式夹紧器应用



Hinge Clamp Types 连杆式夹紧器类型



Compact type  
小巧型



Gasket type  
油路板型



Standard type  
标准型



Double Rod type  
双头杆型



Tube type  
管型



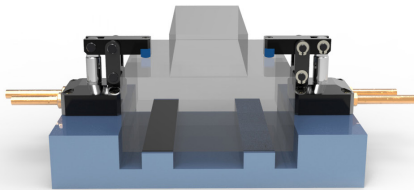
Pneumatic type  
气动型

## Hinge Clamp Introduction 连杆式夹紧器介绍

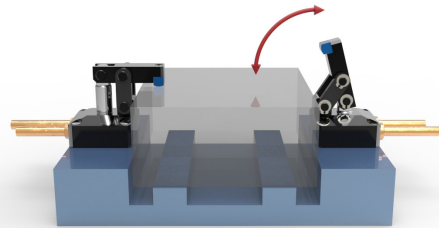
连杆式夹紧器是利用链接部分(link)和销(pin)杠杆原理设计的产品,所以此款产品设计时充分考虑了工装夹具设计者和使用者上载或下载工装物时夹紧臂能充分张开,并为使用便利性产品尺寸小型化。连接销支撑部与油缸主题锻造为一体,所以产品坚固性和内部构造非常优秀。为了给各种工况装配,提供多样化的系列产品和尺寸。

Hinge Clamp is a product designed using link and pin. Designed with sufficient unclamp angle and compact size, there is no interference when loading and unloading workpiece, which maximizes designer convenience. The body, integral with hinge point, provides very strong structure and durability. The products are available in various types and sizes to suit your installation environment.

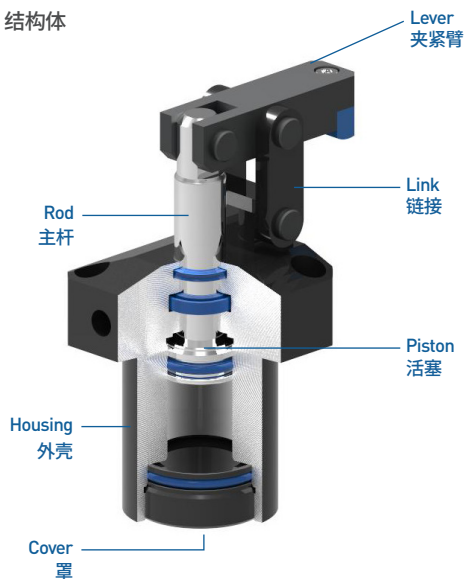
Installation 安装图



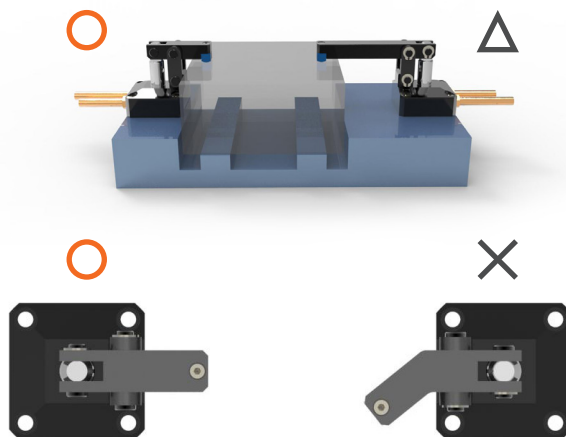
Lever Operation 夹紧臂动作



Structure 结构体



Caution on Lever 夹紧臂注意事项

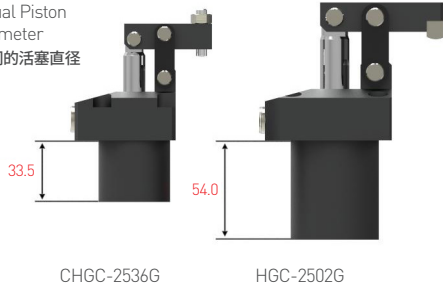




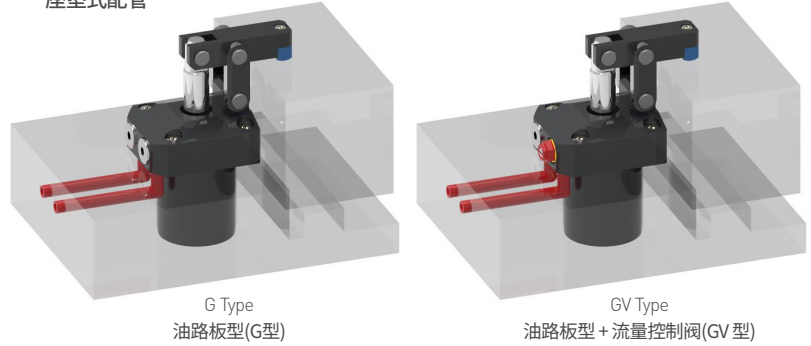
## Hinge Clamp Compact Type 小巧型连杆式夹紧器

### Compact type vs Gasket type 小巧型与标准油路板型对比

Equal Piston Diameter  
相同的活塞直径

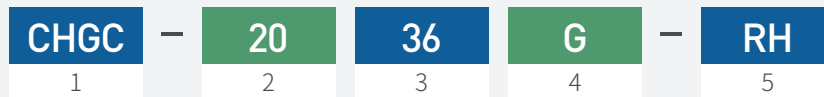


### Manifold Method 座垫式配管



### Model No. 型号

#### CHGC-2036G-RH



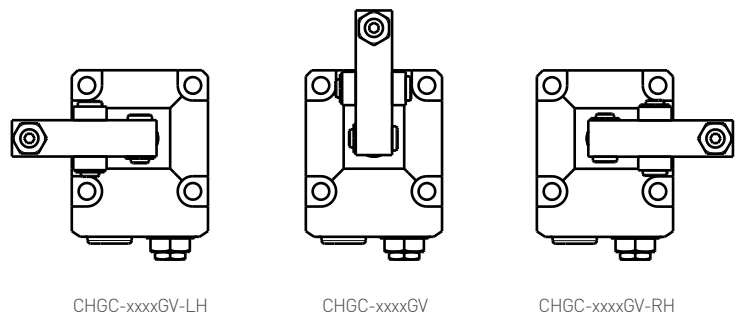
**1** Clamp Type 夹紧器类型  
CHGC = COMPACT HINGE CLAMP 小巧型连杆式夹紧器

**2** Piston Diameter 内径  
ex) 20 =  $\varnothing 20$

**3** Housing Diameter 外径  
ex) 36 =  $\varnothing 36$

**4** Type 类型  
> G = 油路板型  
> GV = 油路板型 + 流量控制阀, 出油节流

**5** Lever Direction 夹紧臂方向  
> RH = 右侧  
> LH = 左侧  
> 无记号 = 中央



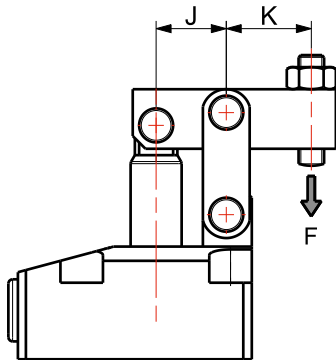
## Specification 规格

### Compact Type 小巧型

\* 夹紧力是标准尺寸夹紧臂适用标准。  
\* The clamping force in the table below relates to the standard dimension lever.

型号		CHGC-2036□		CHGC-2539□		CHGC-3047□		CHGC-3553□		CHGC-4463□		CHGC-5678□		CHGC-70100□	
类型	油路板型	G	GV	G	GV	G	GV	G	GV	G	GV	G	GV	G	GV
夹紧力 (kgf)	① 70 kgf/cm <sup>2</sup>	167		280		390		490		810		1,350		2,020	
内径 (mm)		ø20		ø25		ø30		ø35		ø44		ø56		ø70	
油缸面积 (cm <sup>2</sup> )		3.14		4.91		7.07		9.62		15.2		24.62		38.47	
行程 (mm)	全行程	18.5		20.5		23.5		26		29.5		36		45	
	行程余量	2.5		3		3		3		3		3		3	
油缸容量 (cc)	夹紧 (PUSH)	5.8		10.1		16.6		25.0		44.8		88.6		173.1	
	放松 (PULL)	4.3		7.7		13.0		21.0		38.9		74.4		145.4	
使用油压范围		15 ~ 70 kgf/cm <sup>2</sup>													
使用环境温度		0 ~ 60 °C													
重量 (kg)		0.66	0.67	0.78	0.79	1.08	1.09	1.51	1.52	2.64	2.65	4.46	4.47	8.63	8.64

### Clamping Force Calculation Formula 夹紧力计算公式



#### 油压夹紧

夹紧力随着尺寸K和使用压力而变化，通过以下公式求夹紧力。

Clamping force varies depending on dimension K and operating pressure. Use below formula to calculate clamping force.

- > F = 夹紧力(kgf)
- > p = 油压(kgf/cm<sup>2</sup>)
- > K = 以图上尺寸为基准(mm)

#### Note. 注意事项

K的尺寸过小时, 如果使用最大压力运作, 工装夹具会损伤或漏油的情况发生。

Using excessively short dimension of K at maximum operating pressure may cause oil leakage and damage.

#### COMPACT 小巧型

CHGC-2036G : F = 45.5 x P/K

CHGC-2539G : F = 80.9 x P/K

CHGC-3047G : F = 130.7 x P/K

CHGC-3553G : F = 201.9 x P/K

CHGC-4463G : F = 372.3 x P/K

CHGC-5678G : F = 750.8 x P/K

CHGC-70100G : F = 1442.4 x P/K

小巧型连杆式夹紧器 G型  
Compact Hinge Clamp G Type



特性

1. 小型尺寸
2. 安装和配管容易
3. 安装、卸载产品容易
4. 内径范围:  $\phi 20\sim 70$
5. 使用油压范围:  $15\sim 70\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

Features

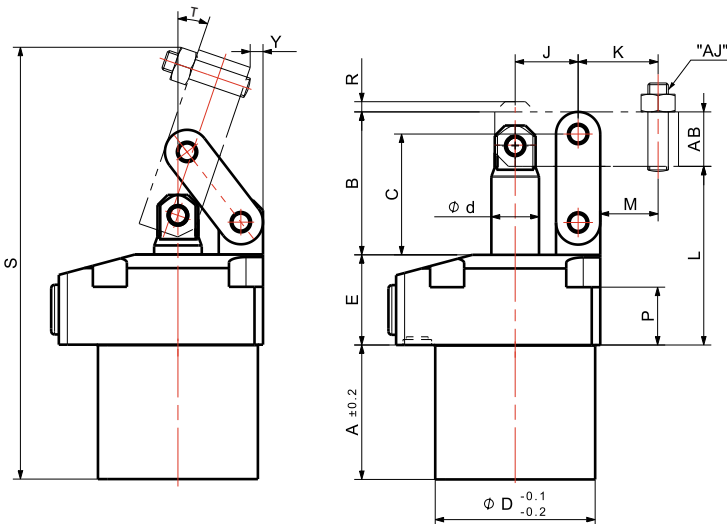
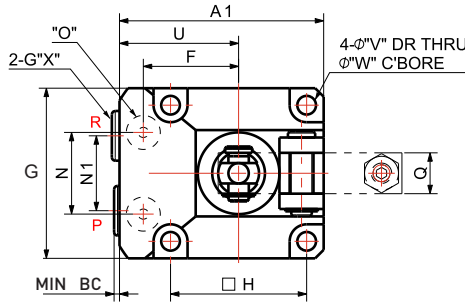
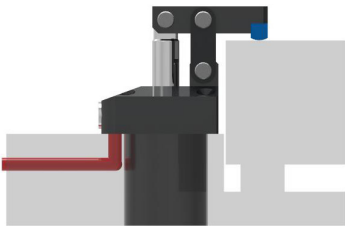
1. Compact size
2. Easy installation and manifold piping
3. Easy loading and removal of workpiece
4. Piston dia. :  $\phi 20\sim 70$
5. Operating Pressure :  $15\sim 70\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

> CHGC - 20 36 G

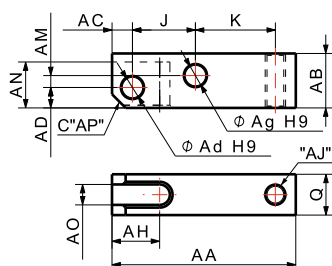
① ② ③

①内径(mm) ②外径(mm) ③油路板型

Manifold Method 座垫式配管



LEVER (OPTION) 夹紧臂 (选项)



Dimensions 尺寸

MODEL NO.	CHGC-2036G	CHGC-2539G	CHGC-3047G	CHGC-3553G	CHGC-4463G	CHGC-5678G	CHGC-70100G
A	38.5	33.5	39.5	42.5	47	55	65
A1	49	55.5	60	66	82	96	120
B	30.5	37	42	48.5	57	71	87
C	25	31.5	35.5	40.5	47.5	58.5	71
φD	36	39	47	53	63	78	100
φd	10	12	14	14	16	22.4	28
E	25	26.5	26.5	28.5	36	40	47
F	23.5	25	28	30.5	36	42	57
G	40	45	50	57	70	86	108
H	31.5	35	40	46	56	68	88
J	14.5	16.5	18.5	21	24.5	30.5	37.5
K	19	20	23.5	29	32	39	50
L	43	49.5	52.5	57	68	80	96
M	13.5	14	17	21.5	21.5	26.5	33.5
N	16	22	24	28	36	45	50
N1	16	20	22	26	30	38	50
O	P5	P7	P7	P7	P8	P9	P10
P	16	18	17	17	20	20	20
Q	10	12	12	16	19	22	32
R	2.5	3	3	3	3	3	3
S	108.5	108.6	126.2	141.8	164.7	194.1	236.8
T	19.6°	21.2°	18.9°	19.9°	20.5°	20.6°	18.4°
U	29	32.5	35	37.5	47	53	66
V	4.5	5.5	5.5	6.8	9	11	14
W	8	10	10	12	15	18.5	20
X	G1/8	G1/8	G1/8	G1/8	G1/4	G3/8	G3/8
Y	2.9	2	3.8	3.2	4.3	6.2	9.8
AA	43	48	54	64	73.5	90.5	115.5
AB	12.5	14	16	20	25	31	38
AC	4.5	5.5	6	6	7	10	13
AD	4.5	5.5	6	6	8	9	12.5
Ad	5	6	6	6	8	12	14
Ag	5	6	6	8	10	14	16
AH	10	11	14	13	17	21	28
AJ	M5	M6	M6	M8	M10	M12	M16
AM	2.5	3	3.5	6	7.5	9.5	9.5
AN	10	12	13.5	13.5	18	23	29
AO	5	6	6	8	10	11	16
AP	C3.5	C3.0	C4.0	C4.0	C5.0	C7.0	C8.0
BC	3.4	2.4	2.4	2.4	2.4	5.1	5.1



### 小巧型连杆式夹紧器 GV型 Compact Hinge Clamp GV Type

#### 特性

1. 流量控制阀安装型
2. 安装和配管容易
3. 安装、卸载产品容易
4. 内径范围:  $\phi 20\sim 70$
5. 使用油压范围:  $15\sim 70\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

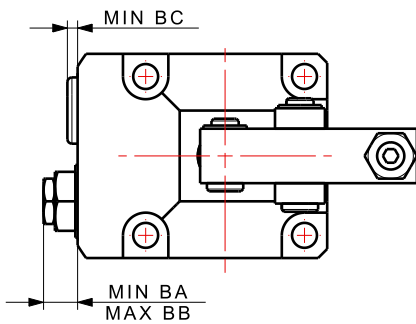
#### Features

1. Flow control valve mounted
2. Easy installation and manifold piping
3. Easy loading and removal of workpiece
4. Piston dia. :  $\phi 20\sim 70$
5. Operating Pressure :  $15\sim 70\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

#### > CHGC - 20 36 GV

① ② ③

①内径(mm) ②外径(mm) ③油路板型+流量控制阀

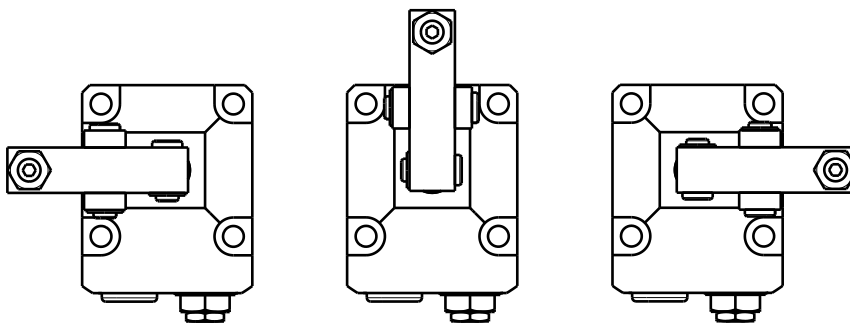


#### Dimensions 尺寸

MODEL NO.	CHGC-2036G	CHGC-2539G	CHGC-3047G	CHGC-3553G	CHGC-4463G	CHGC-5678G	CHGC-70100G
BA	7.5	6.6	6.6	6.6	7.15	7.1	7.1
BB	11.5	13.2	13.2	13.2	16.75	17.1	17.1
BC	3.4	2.4	2.4	2.4	2.4	5.1	5.1

\* G-RH/LH, GV-RH/LH 型可订货 (夹紧臂方向参照下图)

G-RH/LH and GV-RH/LH are available to be ordered. (Refer to below drawing)



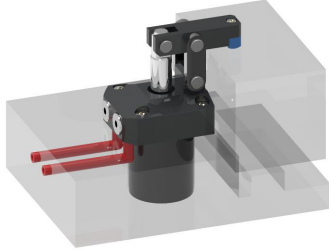
HGC-xxxxGV-LH

HGC-xxxxGV

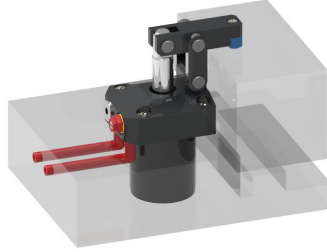
HGC-xxxxGV-RH

Hinge Clamp Gasket Type 标准油路板型连杆式夹紧器

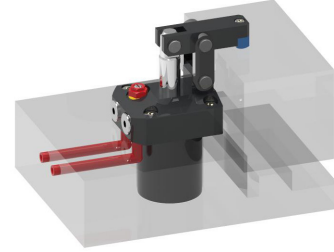
Manifold Method  
座垫式配管



G Type  
油路板型(G型)



GV Type  
油路板型+流量控制阀(GV型)



GVT Type  
油路板型+流量控制阀顶部安装(GVT型)

Model No. 型号

HGC-2502G-RH



**1** Clamp Type 夹紧器类型  
HGC = HINGE CLAMP 连杆式夹紧器

**2** Piston Diameter 内径  
ex) 25 = Ø25

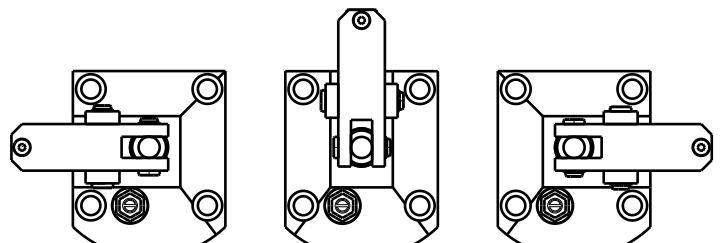
**3** Clamping Force 夹紧力  
ex) 02 = 200kgf 油压70kgf/cm<sup>2</sup>时,以百单位约产生的夹紧力

**4** Type 类型

- > G = 油路板型
- > GV = 油路板型 + 流量控制阀, 进油节流
- > GVT = 油路板型 + 流量控制阀顶部安装, 出油节流

**5** Lever Direction 夹紧臂方向

- > RH = 右侧
- > LH = 左侧
- > 无记号 = 中央



HGC-xxxxGVT-LH

HGC-xxxxGVT

HGC-xxxxGVT-RH

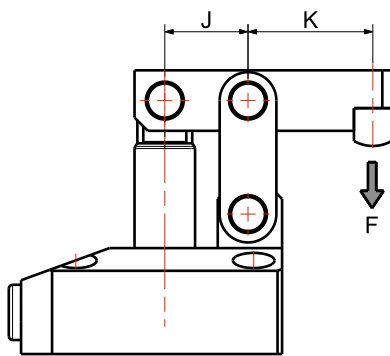
## Specification 规格

### Gasket Type 油路板型

- \* 夹紧力是标准尺寸夹紧臂适用标准。
- \* The Clamping force in the table below relates to the standard dimension lever.

型号		HGC-2502□			HGC-3203□			HGC-4005□			HGC-5009□			HGC-6315□			HGC-8023□		
类型	油路板型	G	GV	GVT	G	GV	GVT	G	GV	GVT	G	GV	GVT	G	GV	GVT	G	GV	GVT
夹紧力 (kgf)	∅ 70 kgf/cm <sup>2</sup>	228			325			544			935			1,563			2,344		
	∅ 150 kgf/cm <sup>2</sup>	490			698			1,166			2,004			3,351			5,023		
内径 (mm)		∅25			∅32			∅40			∅50			∅63			∅80		
油缸面积 (cm <sup>2</sup> )		4.9			8.04			12.56			19.63			31.16			50.24		
行程 (mm)	全行程	28			28			33			42			50			60		
	行程余量	2			2			2			4			4			4		
油缸容量 (cc)	夹紧 (PUSH)	13.7			22.5			41.4			82.5			155.8			301.4		
	放松 (PULL)	8.1			15.4			25.2			52.8			106.3			206		
使用油压范围		15-150kgf/cm <sup>2</sup>																	
使用环境温度		0-60°C																	
重量 (kg)		1.73	1.73	1.72	2.26	2.27	2.27	3.37	3.38	3.39	5.67	5.68	5.68	9.06	9.07	9.07	15.28	15.29	15.28

## Clamping Force Calculation Formula 夹紧力计算公式



### Hydraulic Clamp 油压夹紧

夹紧力随着尺寸K和使用压力而变化，  
通过以下公式求夹紧力。

Clamping force varies depending on dimension K and operating pressure.  
Use below formula to calculate clamping force.

- > F = 夹紧力(kgf)
- > p = 油压(kgf/cm<sup>2</sup>)
- > K = 图下一基准(mm)

Note. 注意事项

K的尺寸过小时, 如果使用最大压力运作, 工装夹具会损伤或漏油的情况发生。

Using excessively short dimension of K at maximum operating pressure may cause oil leakage and damage.

### STANDARD / GASKET / TUBE 标准型 / 油路板型 / 管型

HGC-2502 : F = 107.8 x P / K

HGC-3203 : F = 176.9 x P / K

HGC-4005 : F = 326.6 x P / K

HGC-5009 : F = 628.2 x P / K

HGC-6315 : F = 1184.1 x P / K

HGC-8023 : F = 2311.0 x P / K

### 连杆式夹紧器 G型 Hinge Clamp G Type



**特性**

1. 座垫式配管容易
2. 夹紧及脱夹速度快
3. 排出杂质容易
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选

**Features**

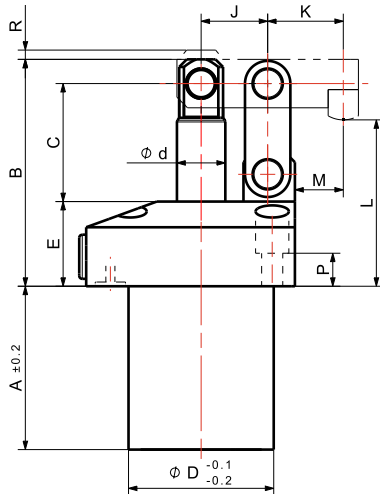
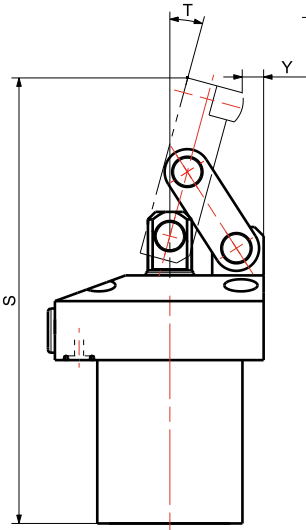
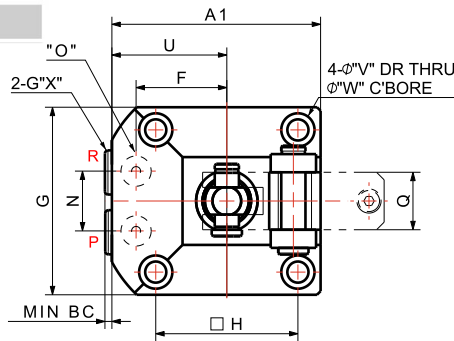
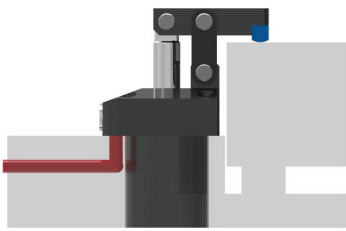
1. Easy manifold piping
2. Rapid clamping and unclamping
3. Easy removal of chips
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

> HGC - 25 02 G

① ② ③

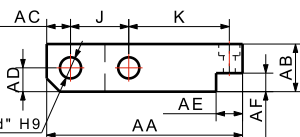
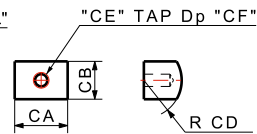
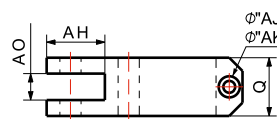
①内径(mm) ②油压70kgf/cm2时,以百单位约产生的夹紧力 ③油路板型

Manifold Method 座垫式配管



LEVER (OPTION) 夹紧臂(选项)

PAD (OPTION) 垫(选项)



Dimensions 尺寸

MODEL NO.	HGC-2502G	HGC-3203G	HGC-4005G	HGC-5009G	HGC-6315G	HGC-8023G
A	54	54	60	78	89	100
A1	69	83	92	104	121	148.5
B	75	80	90	108	127	158
C	39	42.5	47.5	57.5	71	86
øD	48	55	65	80	95	115
ød	16	18	25	30	35.5	45
E	28	27.5	29.5	34.5	36	48
F	30	35	40	48	55	70
G	62	72	80	88	108	125
H	47	55	63	70	85	100
J	22	22	26	32	38	46
K	33	38	42	47	53	69
L	55	58	63	76	85	108
M	24	24	28	35	37	52.5
N	24	26	31	33	39	46
O	P7	P10	P10	P10	P10	P10
P	14	13.5	15	17.5	16	23
Q	19	22	25	32	40	44
R	2	2	2	4	4	4
S	155	163	180	220	252	306
T	15.2°	13.0°	14.3°	14.3°	14.0°	13.7°
U	38	47	52	60	67	86
V	7	9	9	9	11	14
W	11	14	14	14	17.5	20
X	G1/8	G1/8	G1/4	G3/8	G3/8	G3/8
Y	4.6	10.5	9.4	8.5	10	9.1
AA	68	74	85	100	118	147
AB	16	18	22	26	34	40
AC	8	9	11	13	17	20
AD	8	9	11	13	17	20
Ad	8	8	10	12	16	18
AE	10	10	12	16	20	24
AF	6	7	9	10	13	16
AH	20	22	26	32	40	46
AJ	4.5	4.5	6	6.6	9	11
AK	8	8	9.5	11	14	17.5
AL	4.4	4.4	6	7	8.6	11
AO	9	10	12	16	20	24
BC	3.4	3.4	3.4	3.4	3.4	6
CA	14	14	16	20	25	28
CB	10	10	12	16	20	24
CC	10	10	12	13	18	22
CD	10	10	10	15	20	25
CE	M4	M4	M5	M6	M8	M10
CF	6	6	6	7	9	12

连杆式夹紧器 GV型/GVT型  
Hinge Clamp GV / GVT Type



特性

1. 座垫式配管容易
2. 流量控制阀安装型
3. 可以选择流量控制阀位置
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

Features

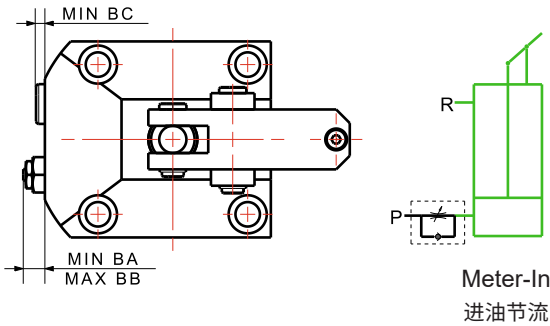
1. Easy manifold piping
2. Flow control valve mounted
3. 2-position flow control valve
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

> HGC - 25 02 GV  
① ② ③

HGC - 25 02 GVT  
① ② ③

- |   |   |
|---|---|
| ① 内径                                    | ① 内径                                    |
| ② 油压70kgf/cm <sup>2</sup> 时,以百单位约产生的夹紧力 | ② 油压70kgf/cm <sup>2</sup> 时,以百单位约产生的夹紧力 |
| ③ 油路板型+流量控制阀                            | ③ 油路板型+流量控制阀顶部安装                        |

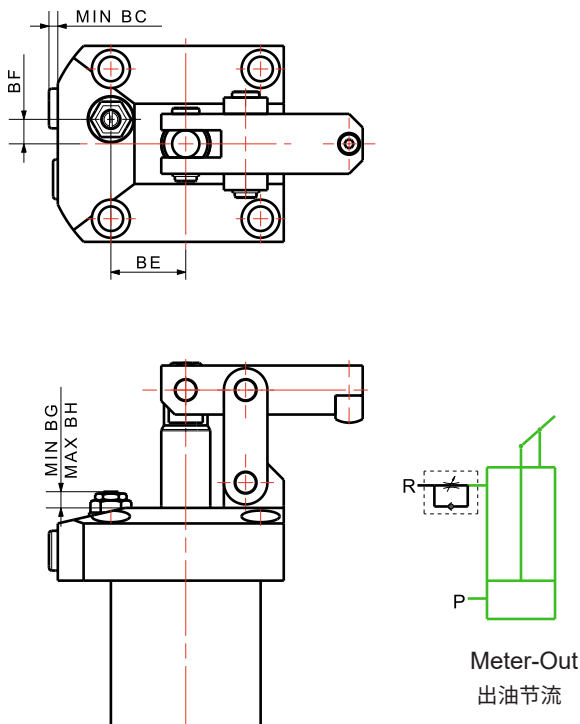
GV Type



Dimensions 尺寸

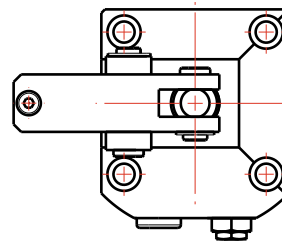
MODEL NO.	HGC-2502GV	HGC-3203GV	HGC-4005GV	HGC-5009GV	HGC-6315GV	HGC-8023GV
DIMENSIONS (mm)						
BA	7	7	10.5	10.5	10.5	10.5
BB	11	11	14.5	14.5	14.5	14.5
BC	3.4	3.4	3.4	3.4	3.4	6

GVT Type

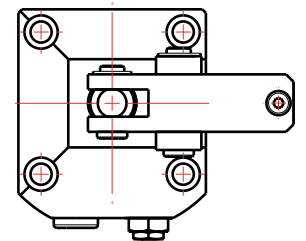


Dimensions 尺寸

MODEL NO.	HGC-2502GVT	HGC-3203GVT	HGC-4005GVT	HGC-5009GVT	HGC-6315GVT	HGC-8023GVT
DIMENSIONS (mm)						
BE	22	27.5	31.5	35	42	46
BF	8	9	11	15	19.5	23
BG	2.5	4.5	9	6	6	5
BH	6.5	8.5	13	10	10	9



HGC-xxxxGV-LH



HGC-xxxxGV-RH

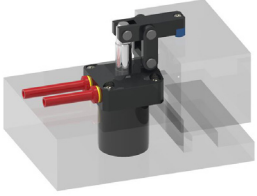
\* G-RH/LH, GV-RH/LH 型可订货  
(夹紧臂方向参照下图)

G-RH/LH and GV-RH/LH are available to be ordered.  
(Refer to above drawing)

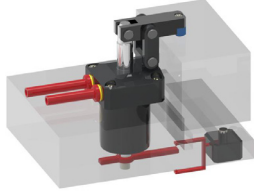


## Hinge Clamp Nipple Type 配管型连杆式夹紧器

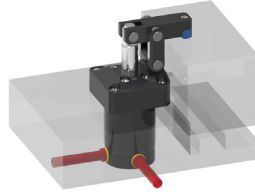
### Piping Method



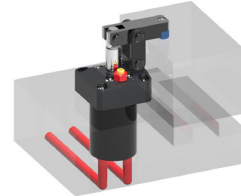
Standard type  
标准型



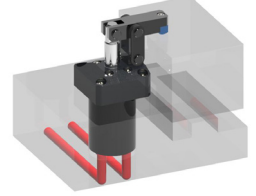
Double Rod type  
双头杆型



T type  
下面配管型(T型)



TV type  
底部配管 + 流量控制阀(TV型)



TS type  
底部配管型(TS型)

### Model No. 型号

#### HGC-2502T

HGC	-	25	02	T
1		2	3	4

**1** Clamp Type 夹紧器类型  
HGC = HINGE CLAMP 连杆式夹紧器

**2** Piston Diameter 内径  
ex) 25 = Ø25

**3** Clamping Force 夹紧力  
ex) 02 = 200kgf at 70kgf/cm<sup>2</sup> 油压70kgf/cm<sup>2</sup>时,以百单位约产生的夹紧力

**4** Type 类型

- > 无记号 = 标准
- > T = 下面配管
- > TV = 底面配管 + 流量控制阀
- > TS = 底面配管
- > D = 双头杆

## Specification 规格

### Nipple Type 配管型

- \* 夹紧力是标准尺寸夹紧臂适用标准。
- \* The clamping force in the table below relates to the standard dimension lever.

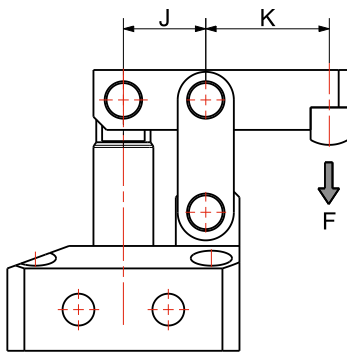
型号		HGC-2502 □			HGC-3203 □			HGC-4005 □			HGC-5009 □			HGC-6315 □			HGC-8023 □		
类型	标准型	无记号			无记号			无记号			无记号			无记号			无记号		
	管型	T	TV	TS	T	TV	TS	T	TV	TS	T	TV	TS	T	TV	TS	T	TV	TS
夹紧力 (kgf)	∅ 70 kgf/cm <sup>2</sup>	228			325			544			935			1,563			2,344		
	∅ 150 kgf/cm <sup>2</sup>	490			698			1,166			2,004			3,351			5,023		
内径 (mm)		∅25			∅32			∅40			∅50			∅63			∅80		
油缸面积 (cm <sup>2</sup> )		4.9			8.04			12.56			19.63			31.16			50.24		
行程 (mm)	全行程	28			28			33			42			50			60		
	行程余量	2			2			2			4			4			4		
油缸容量 (cc)	夹紧 (PUSH)	13.7			22.5			41.4			82.5			155.8			301.4		
	放松 (PULL)	8.1			15.4			25.2			52.8			106.3			206		
使用油压范围		15 ~ 70 kgf/cm <sup>2</sup> (标准型: 15-150kgf/cm <sup>2</sup> )																	
使用环境温度		0-60°C																	
重量 (kg)		1.73	1.73	1.72	2.26	2.27	2.27	3.37	3.38	3.39	5.67	5.68	5.68	9.06	9.07	9.07	15.28	15.29	15.28

### Double Rod Type 双头杆型

- \* 夹紧力是标准尺寸夹紧臂适用标准。
- \* The clamping force in the table below relates to the standard dimension lever.

型号		HGC-2502 D		HGC-3203 D		HGC-4005 D		HGC-5009 D		HGC-6315 D		HGC-8023 D	
夹紧力 (kgf)	∅ 70 kgf/cm <sup>2</sup>	157		244		457		785		1,406		2,198	
	∅ 150 kgf/cm <sup>2</sup>	336		523		979		1,683		3,013		4,710	
内径 (mm)		∅25		∅32		∅40		∅50		∅63		∅80	
油缸面积 (cm <sup>2</sup> )		3.37		6.03		10.55		16.49		28.02		47.1	
行程 (mm)	全行程	28		28		33		42		50		60	
	行程余量	2		2		2		4		4		4	
油缸容量 (cc)	夹紧 (PUSH)	9.4		16.8		34.8		69.2		140		282.6	
	放松 (PULL)	8.1		15.3		25.2		52.7		106.3		206	
使用环境温度		15 ~ 150 kgf/cm <sup>2</sup>											
使用环境温度		0 ~ 60 °C											
重量 (kg)		1.63		2.16		3.1		5.33		8.66		14.35	

## Clamping Force Calculation Formula 夹紧力计算公式



### 油压夹紧

夹紧力随着尺寸K和使用压力而变化。  
通过以下的计算式, 求夹紧力。

Clamping force varies depending on dimension K and operating pressure.  
Use below formula to calculate clamping force.

- > F = 夹紧力(kgf)
- > p = 油压(kgf/cm<sup>2</sup>)
- > K = 图下一基准(mm)

#### Note. 注意事项

K的尺寸过小时, 如果使用最大压力运作, 工装夹具会损伤或漏油的情况发生。  
Using excessively short dimension of K at maximum operating pressure may cause oil leakage and damage.

#### STANDARD / GASKET / TUBE 标准型 / 油路板型 / 管型

HGC-2502 : F = 107.8 x P / K  
HGC-3203 : F = 176.9 x P / K  
HGC-4005 : F = 326.6 x P / K  
HGC-5009 : F = 628.2 x P / K  
HGC-6315 : F = 1184.1 x P / K  
HGC-8023 : F = 2311.0 x P / K

#### DOUBLE RODS 双头杆型

HGC-2502D : F = 73.9 x P / K  
HGC-3203D : F = 132.6 x P / K  
HGC-4005D : F = 274.3 x P / K  
HGC-5009D : F = 527.7 x P / K  
HGC-6315D : F = 1064.8 x P / K  
HGC-8023D : F = 2166.6 x P / K

连杆式夹紧器 标准型  
Hinge Clamp Standard Type



特性

1. 3个方向螺纹配管
2. 安装和配管容易
3. 安装、卸载产品便利
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

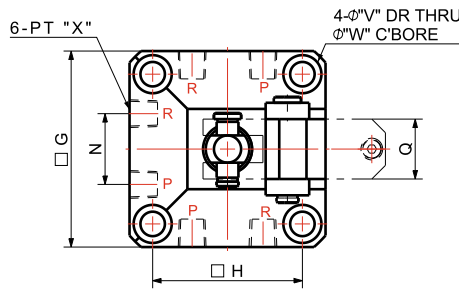
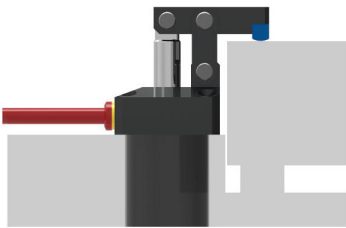
Features

1. 3-direction piping port
2. Easy installation and piping
3. Easy loading and removal of workpiece
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

> HGC - 25 02  
① ②

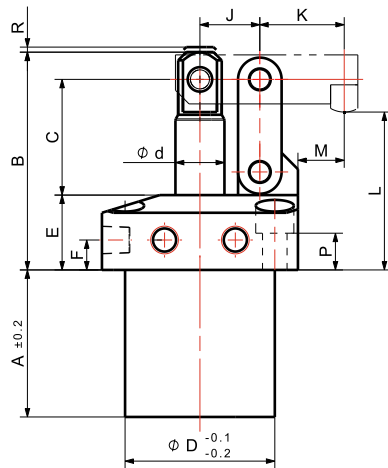
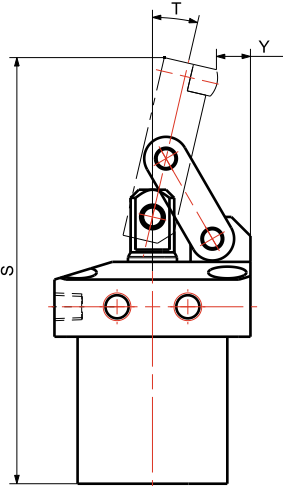
① 内径 ② 油压 $70\text{kgf/cm}^2$ 时,以百单位约产生的夹紧力

Piping Method G螺纹配管

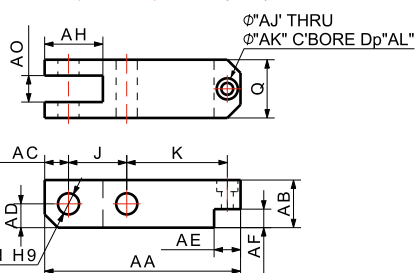


Dimensions 尺寸

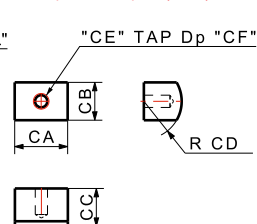
MODEL NO.	HGC-2502	HGC-3203	HGC-4005	HGC-5009	HGC-6315	HGC-8023
A	54	54	60	78	89	100
B	75	80	90	108	127	158
C	39	42.5	47.5	57.5	71	86
$\phi D$	48	55	65	80	95	115
$\phi d$	16	18	25	30	35.5	45
E	28	27.5	29.5	34.5	36	48
F	11	11	12	14	14	22.5
G	62	72	80	88	108	125
H	47	55	63	70	85	100
J	22	22	26	32	38	46
K	33	38	42	47	53	69
L	55	58	63	76	85	108
M	24	24	28	35	37	52.5
N	24	26	31	33	39	46
P	14	13.5	15	17.5	16	23
Q	19	22	25	32	40	44
R	2	2	2	4	4	4
S	155	163	180	220	252	306
T	$15.2^\circ$	$13.0^\circ$	$14.3^\circ$	$14.3^\circ$	$14.0^\circ$	$13.7^\circ$
V	7	9	9	9	11	14
W	11	14	14	14	17.5	20
X	1/8	1/8	1/4	1/4	3/8	3/8
Y	4.6	10.5	9.4	8.5	10	9.2
AA	68	74	85	100	118	147
AB	16	18	22	26	34	40
AC	8	9	11	13	17	20
AD	8	9	11	13	17	20
Ad	8	8	10	12	16	18
AE	10	10	12	16	20	24
AF	6	7	9	10	13	16
AH	20	22	26	32	40	46
AJ	4.5	4.5	6	6.6	9	11
AK	8	8	9.5	11	14	17.5
AL	4.4	4.4	6	7	8.6	11
AO	9	10	12	16	20	24
CA	14	14	16	20	25	28
CB	10	10	12	16	20	24
CC	10	10	12	13	18	24
CD	10	10	10	15	20	25
CE	M4	M4	M5	M6	M8	M10
CF	6	6	6	7	9	12



LEVER (OPTION) 夹紧臂(选项)



PAD (OPTION) 垫(选项)



连杆式夹紧器 双头杆型

Hinge Clamp Double Rod Type



特性

1. 用于限位传感器系统
2. 安装和配管容易
3. 安装、卸载产品便利
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

Features

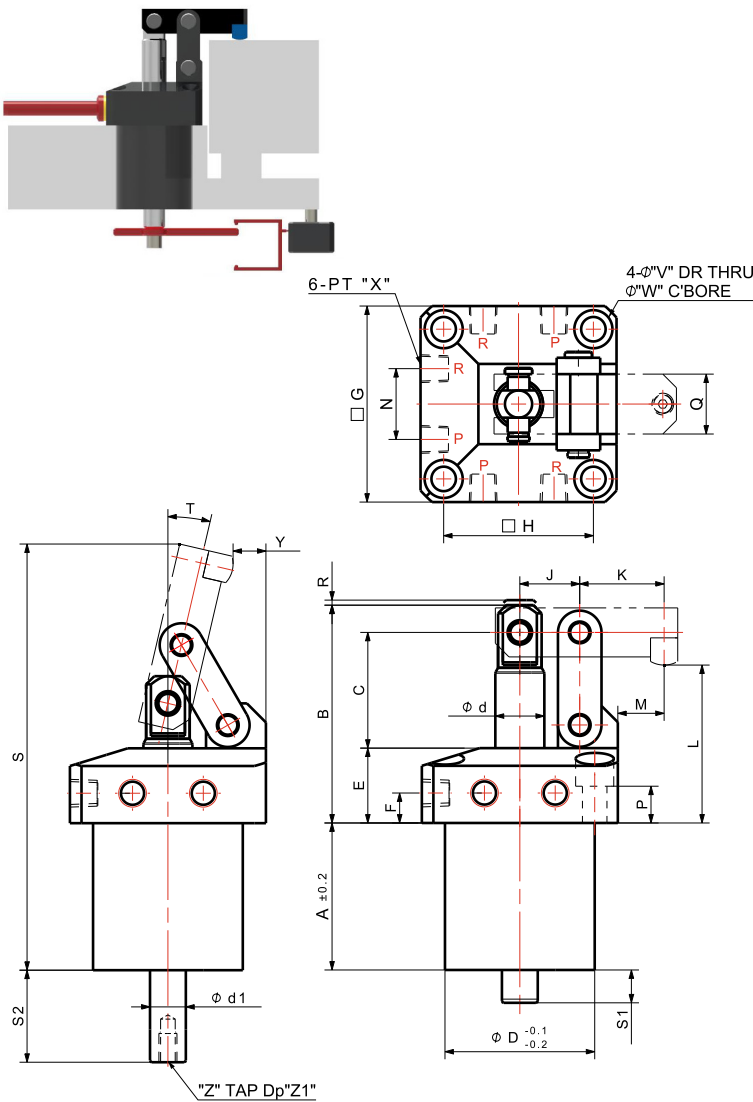
1. Applicable to limit sensor system
2. Easy installation and piping
3. Easy loading and removal of workpiece
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

> HGC - 25 02 D

① ② ③

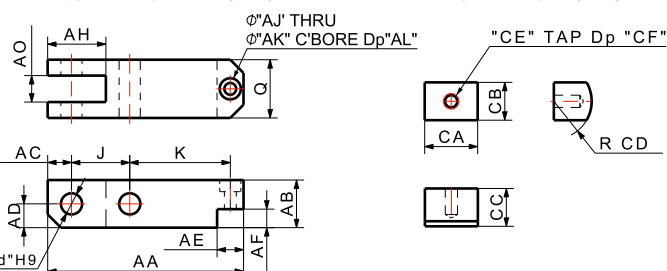
① 内径(mm) ② 油压 $70\text{kgf/cm}^2$ 时,以百单位约产生的夹紧力 ③ 双头杆型

Piping Method G螺纹配管



LEVER (OPTION) 夹紧臂(选项)

PAD (OPTION) 垫(选项)



Dimensions 尺寸

MODEL NO.	HGC-2502D	HGC-3203D	HGC-4005D	HGC-5009D	HGC-6315D	HGC-8023D
A	54	57	60	78	89	100
B	75	80	90	108	127	158
C	39	42.5	47.5	57.5	71	86
øD	48	55	65	80	95	115
ød	16	18	25	30	35.5	45
ød1	14	16	16	20	20	20
E	28	27.5	29.5	34.5	36	48
F	11	11	12	14	14	22.5
G	62	72	80	88	108	125
H	47	55	63	70	85	100
J	22	22	26	32	38	46
K	33	38	42	47	53	69
L	55	58	63	76	85	108
M	24	24	28	35	37	52.5
N	24	26	31	33	39	46
P	14	13.5	15.5	17.5	16	23
Q	19	22	25	32	40	44
R	2	2	2	4	4	4
S	155	166.4	180.4	220	252	306
S1	12	12	12	14	14	14
S2	38	38	43	52	60	70
T	15.2°	13.1°	14.3°	14.3°	14.0°	13.7°
V	7	9	9	9	11	14
W	11	14	14	14	17.5	20
X	1/8	1/8	1/4	1/4	3/8	3/8
Y	4.6	10.5	9.4	8.5	10	9.2
Z	M8	M8	M8	M12	M12	M12
Z1	12	15	15	20	20	20
AA	68	74	85	100	118	147
AB	16	18	22	26	34	40
AC	8	9	11	13	17	20
AD	8	9	11	13	17	20
Ad	8	8	10	12	16	18
AE	10	10	12	16	20	24
AF	6	7	9	10	13	16
AH	20	22	26	32	40	46
AJ	4.5	4.5	6	6.6	9	11
AK	8	8	9.5	11	14	17.5
AL	4.4	4.4	6	7	8.6	11
AO	9	10	12	16	20	24
CA	14	14	16	20	25	28
CB	10	10	12	16	20	24
CC	10	10	12	13	18	24
CD	10	10	10	15	20	25
CE	M4	M4	M5	M6	M8	M10
CF	6	6	6	7	9	12

连杆式夹紧器 下面配管型(T型)  
Hinge Clamp T Type



特性

1. 外壳下面配管
2. 安装和配管容易
3. 安装、卸载产品便利
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 70\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

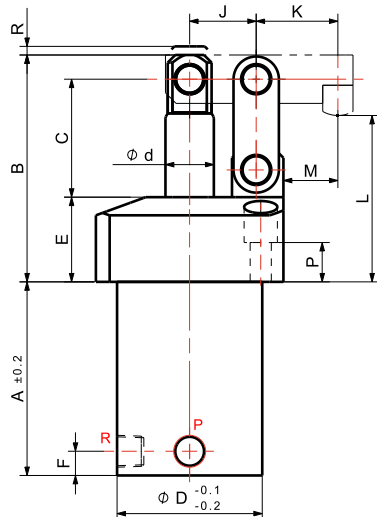
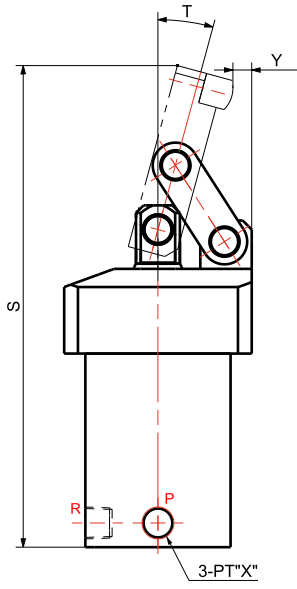
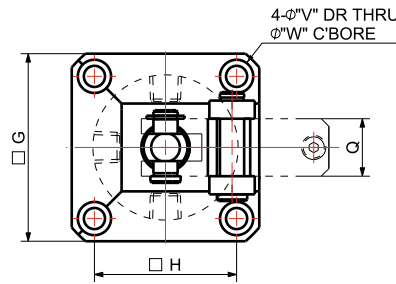
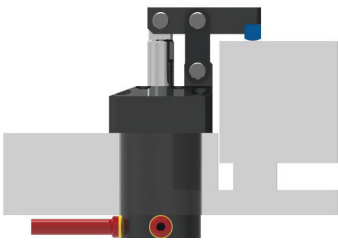
Features

1. Piping on lower position of housing
2. Easy installation and piping
3. Easy loading and removal of workpiece
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 70\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

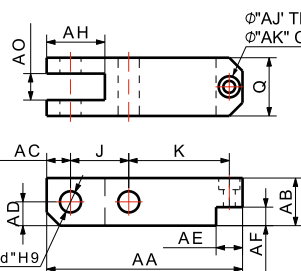
> HGC - 25 02 T  
① ② ③

① 内径 ② 油压 $70\text{kgf/cm}^2$ 时,以百单位约产生的夹紧力 ③ 下面配管型

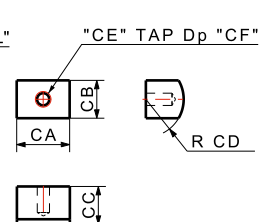
Piping Method G螺纹配管



LEVER (OPTION) 夹紧臂(选项)



PAD (OPTION) 垫(选项)



Dimensions 尺寸

MODEL NO.	HGC-2502T	HGC-3203T	HGC-4005T	HGC-5009T	HGC-6315T	HGC-8023T
A	64	64	79	94	111	123
B	75	80	90	108	127	158
C	39	42.5	47.5	57.5	71	86
φD	48	55	65	80	95	115
φd	16	18	25	30	35.5	45
E	28	27.5	29.5	34.5	36	48
F	8	8	11	12	14	15.5
G	62	72	80	88	108	125
H	47	55	63	70	85	100
J	22	22	26	32	38	46
K	33	38	42	47	53	69
L	55	58	63	76	85	108
M	24	24	28	35	37	52.5
P	14	13.5	15	17.5	16	23
Q	19	22	25	32	40	44
R	2	2	2	4	4	4
S	155	163	180.4	220	252	306
T	15.2°	13.0°	14.3°	14.3°	14.0°	13.7°
V	7	9	9	9	11	14
W	11	14	14	14	17.5	20
X	1/8	1/8	1/4	1/4	3/8	3/8
Y	4.6	10.5	9.4	8.5	10	9.2
AA	68	74	85	100	118	147
AB	16	18	22	26	34	40
AC	8	9	11	13	17	20
AD	8	9	11	13	17	20
Ad	8	8	10	12	16	18
AE	10	10	12	16	20	24
AF	6	7	9	10	13	16
AH	20	22	26	32	40	46
AJ	4.5	4.5	6	6.6	9	11
AK	8	8	9.5	11	14	17.5
AL	4.4	4.4	6	7	8.6	11
AO	9	10	12	16	20	24
CA	14	14	16	20	25	28
CB	10	10	12	16	20	24
CC	10	10	12	13	18	22
CD	10	10	10	15	20	25
CE	M4	M4	M5	M6	M8	M10
CF	6	6	6	7	9	12

连杆式夹紧器 双头杆型  
Hinge Clamp TS/TV Type



特性

1. 外壳底面配管
2. 法兰盘上面安装阀门
3. 安装、卸载产品便利
4. 内径范围:  $\phi 25\sim 80$
5. 使用油压范围:  $15\sim 70\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 夹紧臂可选。

Features

1. Piping on lower position of housing
2. Valve located on the top of flange
3. Easy loading and removal of workpiece
4. Piston Diameter :  $\phi 25\sim 80$
5. Operating Pressure :  $15\sim 70\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Lever is option item

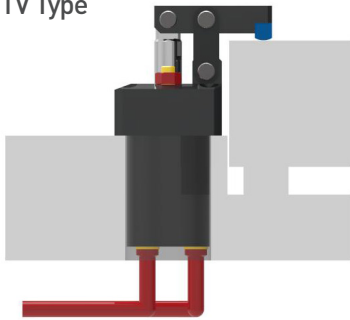
> HGC - 25 02 TS  
① ② ③

- ① 内径(mm)
- ② 油压 $70\text{kg/cm}^2$ 时,以百单位约产生的夹紧力
- ③ 底部配管

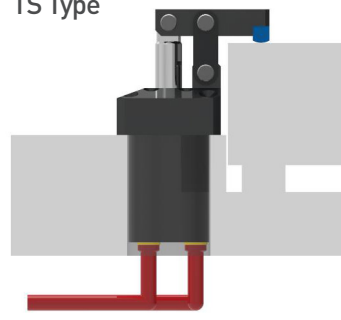
HGC - 25 02 TV  
① ② ③

- ① 内径(mm)
- ② 油压 $70\text{kg/cm}^2$ 时,以百单位约产生的夹紧力
- ③ 底部配管 + 流量控制阀

TV Type



TS Type

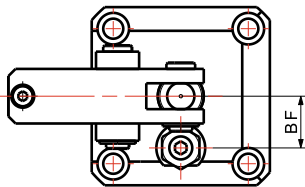


Dimensions 尺寸

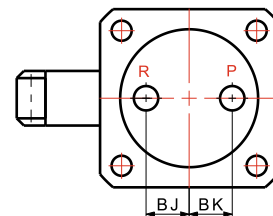
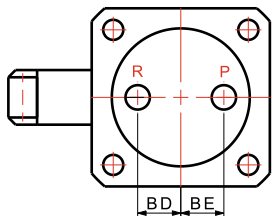
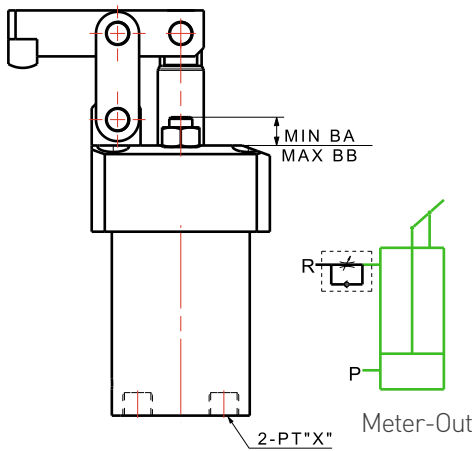
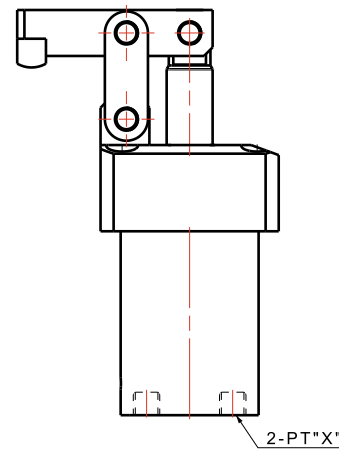
MODEL NO.	HGC-2502TV	HGC-3203TV	HGC-4005TV
DIMENSIONS (mm)	BA	8.5	8
	BB	13.5	13
	BD	15	18.5
	BE	15	18.5
	BF	18	21.5
	X	1/8	1/8

MODEL NO.	HGC-2502TS	HGC-3203TS	HGC-4005TS
DIMENSIONS (mm)	BJ	16	21
	BK	12	19
	X	1/8	1/8

TV Type

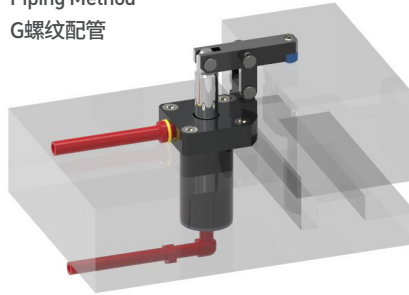


TS Type



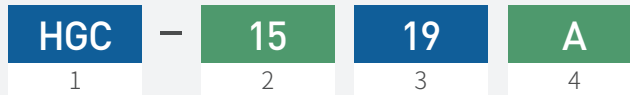
Hinge Clamp Pneumatic Type 气动型连杆式夹紧器

Piping Method  
G螺纹配管



Model No. 型号

HGC-1519A



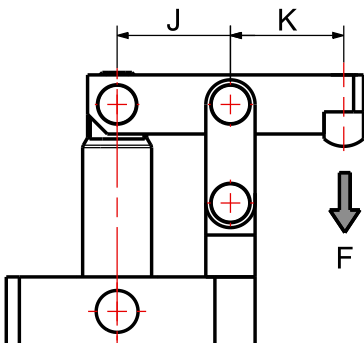
- 1** Clamp Type 夹紧器类型  
HGC = HINGE CLAMP  
连杆式夹紧器
- 2** Piston Diameter 内径  
ex) 15 = Ø15
- 3** Piston Rod Stroke 主杆行程  
ex) 19 = 19mm
- 4** Type 类型  
> A = 气动

Specification 规格

\* 夹紧力是标准尺寸夹紧臂适用标准。  
\* The clamping force in the table below relates to the standard dimension lever.

型号		HGC-1519A	HGC-2024A	HGC-2527A	HGC-3035A	HGC-4040A	HGC-5051A	HGC-6353A
夹紧力 (kgf)	Ø 5 kgf/cm <sup>2</sup>	9	16	25	35	63	98	156
气动缸面积 (cm <sup>2</sup> )		1.76	3.14	4.90	7.06	12.56	19.62	31.15
内径 (mm)		Ø15	Ø20	Ø25	Ø30	Ø40	Ø50	Ø63
行程 (mm)	全行程	19	24	27	35	40	51	53
	行程余量	2	2	2	3	3	3	3
使用气压范围		3-9.9kgf/cm <sup>2</sup>						
使用环境温度		0-60°C						
活塞速度		8-100mm/s						
重量 (kg)		0.23	0.37	0.54	1.24	1.70	2.86	4.29

Clamping Force Calculation Formula  
夹紧力计算公式



气动型连杆式夹紧器

夹紧力随着尺寸K和使用压力而变化，  
通过以下公式求夹紧力。

Clamping force varies depending on dimension K and operating pressure.  
Use below formula to calculate clamping force.

- > F = 夹紧力(kgf)
- > p = 气压(kgf/cm<sup>2</sup>)
- > K = 图下一基准(mm)

PNEUMATIC 气动

HGC-1519A : F = 28.2 x P / K  
HGC-2024A : F = 62.8 x P / K  
HGC-2527A : F = 112.7 x P / K  
HGC-3035A : F = 211.8 x P / K

HGC-4040A : F = 439.6 x P / K  
HGC-5051A : F = 882.9 x P / K  
HGC-6353A : F = 1557.5 x P / K

连杆式夹紧器 气动型  
Hinge Clamp Pneumatic Type



特性

1. 以空气压力运作
2. 便利的排管
3. 快速安装、拿开产品容易
4. 内径范围:  $\phi 15\sim 63$
5. 使用气压范围:  $3\sim 9.9\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 活塞速度:  $8\sim 100\text{mm/s}$
8. 夹紧臂可选。

Features

1. Operating by pneumatic pressure
2. Easy piping
3. Rapid loading and removal of workpiece
4. Piston Diameter :  $\phi 15\sim 63$
5. Operating Pressure :  $3\sim 9.9\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. Piston Speed :  $8\sim 100\text{mm/s}$
8. Lever is option item

> HGC - 15 19 A

① ② ③

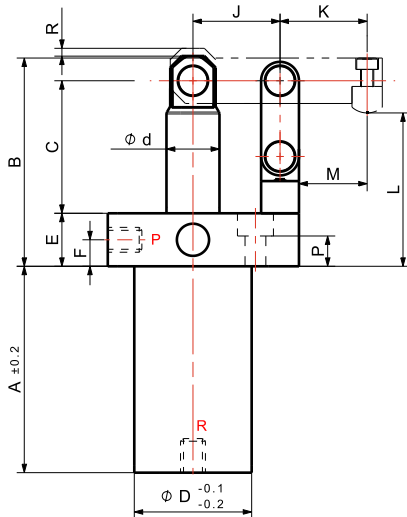
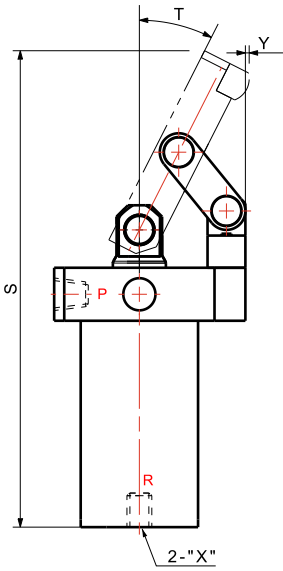
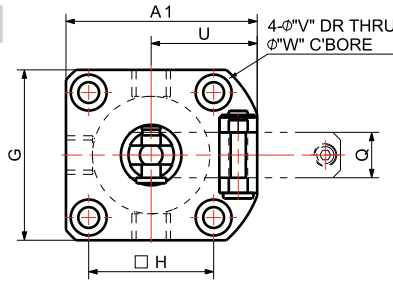
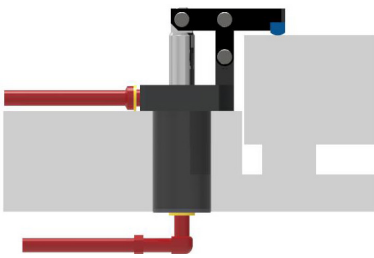
① 内径(mm) ② 总行程(mm) ③ 气动

Dimensions 气动

MODEL NO.	HGC-1519A	HGC-2024A	HGC-2527A	HGC-3035A	HGC-4040A	HGC-5051A	HGC-6353A
A	45	50	54.5	76.5	81.5	101.5	105
A1	37	45	50.5	64	74	91.5	105
B	43.5	49.5	55	78.5	83.5	96.5	100
C	30.5	31	35	50.5	55.5	67.5	69
$\phi D$	20	25	31	37	47	58	72
$\phi d$	8	12	14	18	20	22.4	28
E	13	14	14	18	18	20	20
F	5	5.5	7	9	9	10	10
G	32	40	45	52	62	77	88
H	22	28	33	37	47	57	67
J	16	20	23	30	35	45	50
K	16	20	23	30	35	45	50
L	31.5	37.5	40.5	57.5	62.5	75.5	75
M	11	15	18	22	27	37	39
P	8.5	8	8	11	10	11	11
Q	9	9	12	19	19	22	25
R	2	2	2	3	3	3	3
S	101.4	114.8	125.8	175.7	188.7	228.1	238.9
T	$25.8^\circ$	25.1	26.8	26.3	28.5	29.5	33
U	21	25	28	38	43	53	61
V	4.5	5.5	5.5	7	7	9	9
W	8	9.5	9.5	11	11	14	14
X	M5	M5	PT 1/8	PT 1/8	PT 1/8	PT 1/8	PT 1/8
Y	0.3	0.7	1	0.6	1.3	3.3	6.9
AA	40.5	49	56	74	84	104	117
AB	9	9	12	19	19	18	22
AC	4.5	5	6	9	9	9	11
AD	4.5	4.5	6	9	9	9	11
Ad	5	5	5	8	8	8	10
AE	8	8	8	10	10	10	12
AF	4	4	4.5	8	8	7	9
AH	12	13.5	14.5	23	23	22	26
AJ	3.5	3.5	3.5	4.5	4.5	4.5	6
AK	6	6	6	8	8	8	9.5
AL	3	3	3	4	4	4	6
AO	4	4	5	9	9	10	12
CA	8	8	8	14	14	14	16
CB	8	8	8	10	10	10	12
CC	7	7	7	10	10	10	12
CD	6	6	6	10	10	10	10
CE	M3	M3	M3	M4	M4	M4	M5
CF	4.5	4.5	4.5	6	6	6	6

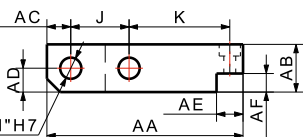
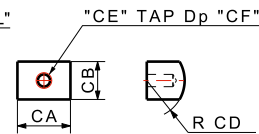
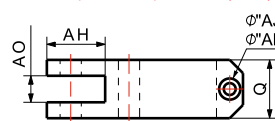
DIMENSIONS (mm)

Piping Method G螺纹配管



LEVER (OPTION) 夹紧臂(选项)

PAD (OPTION) 垫(选项)





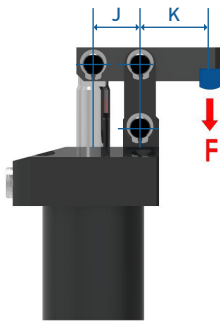
## 设计时注意事项 Cautions for design

1. 使用压力范围为15-150。但是compact、tube、tv、ts只在70以下使用。

The range of operating pressure is 15~150 kgf/cm<sup>2</sup>.  
(But, Compact, T, TV and TS types, use only under 70 kgf/cm<sup>2</sup>)

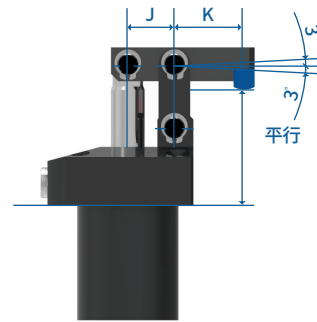
2. 图中K比J明显短时，以最高使用压力为标准调比例，调低供应压力。

As shown in the figure, when K is significantly shorter than J, the operating pressure should be lowered in proportion to the maximum working pressure.



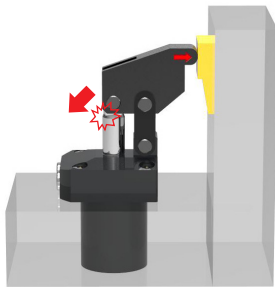
3. 夹紧时调整高度，使夹紧臂与安装面成平行后夹紧。(公差角度:±3°)

When clamping, adjust the height to ensure the lever is parallel to the mounting surface. [Tolerance : ±3°]



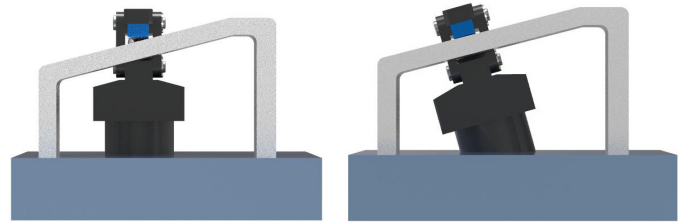
4. 主杆轴方向的力以外，不要有其他力。

Do not apply force to the piston rod other than in the axial direction.



5. 夹紧倾斜面时，将夹紧器和倾斜面成平行地安装。

When clamping a slope, make sure the clamp surface is parallel to the slope.



6. 用于焊接夹具时，不要使焊接喷溅沾到主杆上。

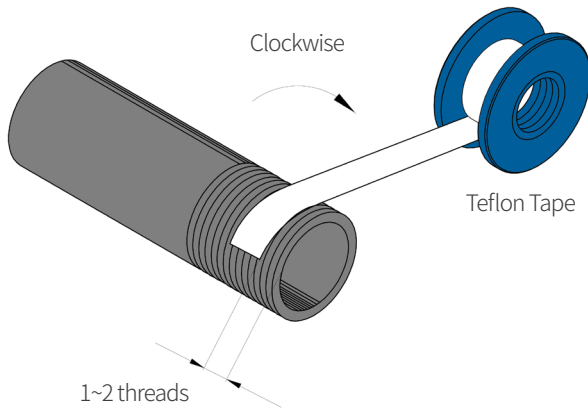
When using on a welding jig, ensure the spatter does not stick to the rod.

## 安装时注意事项 Cautions for installation

1. 液压油使用KIXX RD HD 32(GS Caltex-ISO VG 32)或同级别油。  
Use hydraulic oil KIXX RD HD 32(GS Caltex-ISO VG 32) or equivalent.

3. 配管后初期, 管道内有空气, 因此抽出空气后再使用。  
Air in the pipe or manifold must be removed before using it.

5. 铁氟龙胶带如下图将接头缠紧时留螺纹1-2丝。  
As shown in the figure below, teflon tape should be wound, leaving one or two threads of the nipple.



2. 配管前彻底清除管道、接头、夹具油路等内的毛刺, 清洁以后再使用。  
Before piping, remove burr thoroughly and clean flow channels of pipe, nipple and jig.

4. 油路内抽出空气后, 调整速度。  
After removing air in the circuit, please adjust speed.

6. 连杆式夹紧器的组装处使用强度区分12.9级螺丝, 请参考如下图

Use bolts with ISO 898-1 class 12.9 to mount hinge clamp and tighten with reference to the recommended tightening torque table below.

### [ 推荐螺栓螺丝扭力(强度区分12.9) ]

[ Recommended screwing torque for attachment bolt(ISO 898-1 class) ]

Bolt size	Torque
M4 x 0.7	29 kgf-cm
M5 x 0.8	71 kgf-cm
M6 x 1	112 kgf-cm
M8 x 1.25	255 kgf-cm
M10 x 1.5	499 kgf-cm
M12 x 1.75	612 kgf-cm

1kgf-cm = 0.0981N-m

## 使用时注意事项 Cautions for operation

1. 确信已确保好安全时, 关闭电源, 进行维修或检查工作。  
When you are confident of safety, turn off the power and start troubleshooting.

3. 如果分解或改造产品, 即便在质保期内, 也无法提供质保维修服务, 内部零件可能会变形或丢失。  
The product warranty will be void in cases of product modification or disassembly. Doing so may deform or lose internal parts.

5. 定期确认液压油的状态。  
Please check hydraulic oil regularly.

7. 使用气动夹紧器时流入的水分可能成为产品腐蚀, 冬季冻结带来的功能下降和设备故障的主要原因, 因此请务必使用除湿器。

Moisture entering during pneumatic clamp operation can be a major cause of failure and performance decrease due to corrosion and freezing in winter.

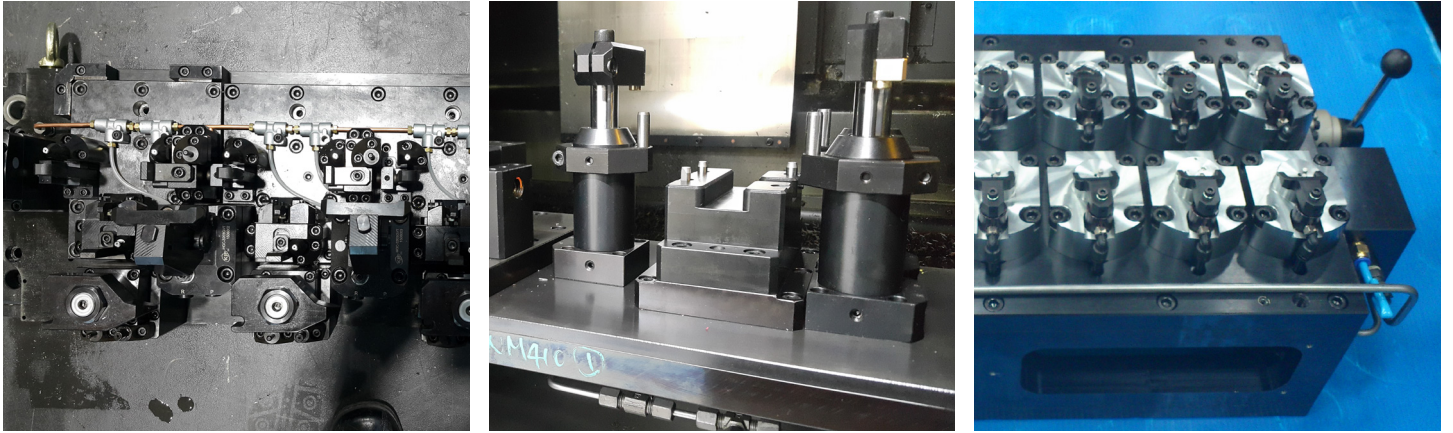
2. 连杆式夹紧器运作时, 不要探身到夹紧器运作范围内。  
Care should be taken to stay well clear of the clamping range during hinge clamp operation.

4. 检查固定的零件是否松开。  
Check if all parts are fastened.

6. 长时间没有运作的设备, 请预先确认是否正常运行。  
The performance of equipment should be checked in advance in cases of extended downtime.

8. 定期清洁主杆周围, 并请随时维持清洁。  
Clean the area around the piston rod as part of regular maintenance.

## Swing Clamp Applications 旋转式夹紧器应用



## Swing Clamp Types 旋转式夹紧器类型



Compact type  
小巧型



Top Flange type  
上部凸缘型



Bottom Flange type  
下部凸缘型



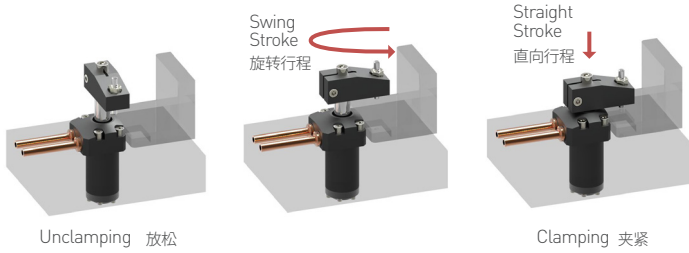
Pneumatic type  
气动型

## Swing Clamp Introduction 旋转式夹紧器介绍

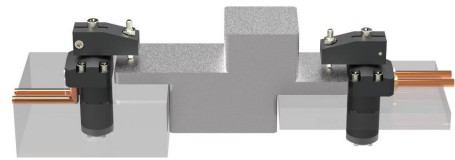
旋转式夹紧器是根据气缸内部的引线槽旋转后直行设计的产品，上载或下载工作物时容易避开干预。产品尺寸小型化是最大考虑设计者的设计便利性。夹紧力垂直方向地作用到工作物上，可以稳定地进行夹紧工作。为了选定设置状况上最符合的产品，提供多种类型和尺寸。

Swing clamp is designed to straighten after being rotated by the led groove inside the cylinder.  
Swing clamp dodges interference when loading a structure and its compact size is intended to maximize design convenience for the designer.  
Clamping force is applied to a structure in a vertical direction to ensure stable clamping.  
The products are available in various types and sizes to suit your installation environment.

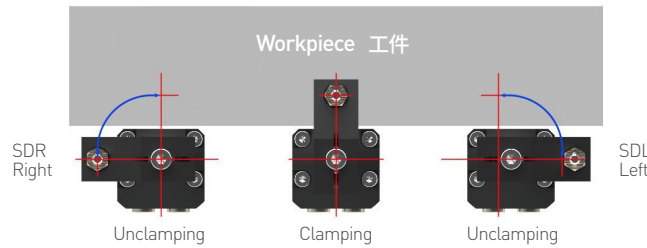
### Operation 动作



### Installation 安装结构体



### Swing direction (SDR & SDL) 摆动方向



### CLAMP高度选择方法

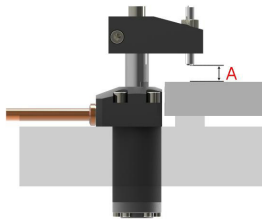
#### How to choose clamp height

安装时必须使其在直行程区间内进行夹紧工作，松开时将A的尺寸根据以下公式设置。

$$A = \text{旋转行程} + \text{直向行程} - 2\text{mm}$$

Swing clamp must be installed to ensure clamping occurs within the straight stroke section. If possible, the dimension of A should be set by the following formula

$$A = \text{Swing Stroke} + \text{Straight Stroke} - 2\text{mm}$$

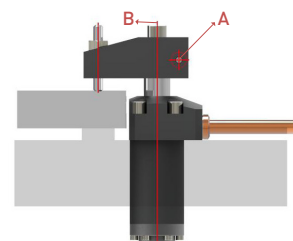


### 固定夹紧臂时注意事项

#### Cautions for fixing lever

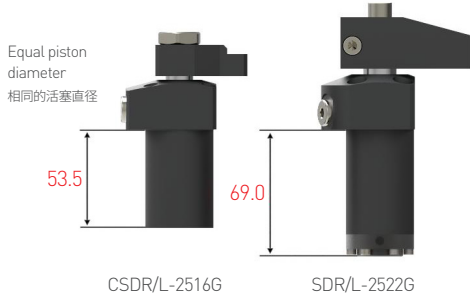
1. 固定夹紧臂时，如图夹紧的位置上先拧结扳手螺栓“A”。
2. 轻轻的拧扳手螺栓 (Wrench Bolt) B，不然气缸销(Cylinder Pin)会破损，无法使用产品。  
(拧紧“B”时，将夹紧臂用台钳或扳手固定。  
由于没有遵守上述事项所产生的损伤，我司概不负责。

1. When fastening a lever, fasten the wrench bolt 'A' first on the clamped position as shown in figure.
2. Fasten lightly the wrench bolt 'B'. Otherwise, the product may be unusable due to cylinder pin damage.  
(When tightening 'B', the lever must be fixed with a vise or spanner.)  
We are not responsible for damage caused by failure to comply with the instructions aforementioned.



## Swing Clamp Compact Type 小巧型旋转式夹紧器

Compact type vs Gasket type  
小巧型与标准油路板型对比



Rod Types  
主杆形状



### Model No. 型号

#### CSDR/L-2516G



**1** Clamp Type 夹紧类型  
SDR = SWING RIGHT 右旋  
SDL = SWING LEFT 左旋

**3** Piston Rod Stroke 主杆行程  
ex) 16 = 16mm

**5** Swing Angle 旋转角度  
无记号 = 90°  
ex) 30 = 30°

**2** Piston Diameter 内径  
ex) 25 = Ø25

**4** Type 类型

- > G = 油路板型
- > GV = 油路板型+流量控制阀
- > GP = 油路板型+主杆带销孔
- > GPV = 油路板型+主杆带销孔+流量控制阀
- > GQ = 油路板型+夹紧臂快速更换
- > GQV = 油路板型+夹紧臂快速更换+流量控制阀

### Specification 规格

型号	CSDR/L-2516□□			CSDR/L-3017□□			CSDR/L-3618□□			CSDR/L-4220□□			CSDR/L-5026□□			CSDR/L-6028□□		
类型	G	GP	GQ	G	GP	GQ	G	GP	GQ	G	GP	GQ	G	GP	GQ	G	GP	GQ
重量 (kg)	0.90	0.73	0.75	1.33	1.05	1.09	1.52	1.36	1.44	1.78	1.66	1.76	3.21	3.01	3.19	5.80	4.28	4.41
油缸能力 (kgf)	219			316			446			625			879			1,305		
内径 (mm)	ø25			ø30			ø36			ø42			ø50			ø60		
油缸面积 (cm²)	3.14			4.52			6.37			8.94			12.56			18.64		
行程 (mm)	旋转行程			8			9			10			10			16		
	直向行程			8			8			8			10			12		
	全行程			16			17			18			20			26		
油缸容量 (cc)	夹紧			5.02			7.69			11.47			17.88			32.66		
使用油压范围	20 - 70 kgf/cm²																	
使用环境温度	0 ~ 60 °C																	

小巧型旋转式夹紧器 G/GV型  
Compact Swing Clamp G / GV Type



特性

1. 小型设计
2. 可以更换杠杆
3. 快速安装、拿开产品容易
4. 内径范围:  $\varnothing 25\sim 60$
5. 使用油压范围:  $20\sim 70\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

Features

1. Compact design
2. Lever exchangeable
3. Rapid installation and removal of workpiece
4. Piston Diameter :  $\varnothing 25\sim 60$
5. Operating Pressure :  $20\sim 70\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

可以订GV型产品  
GV type is available.

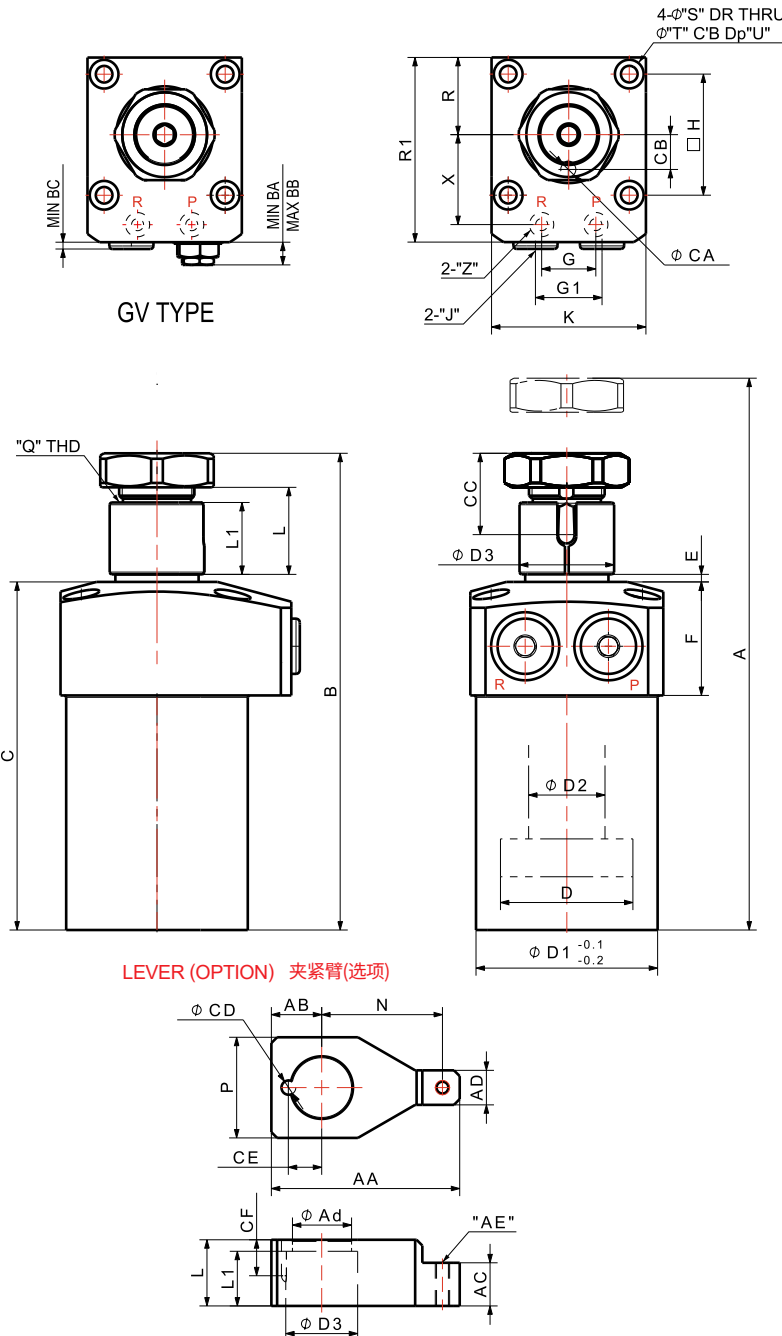
> CSDR - 25 16 G

CSDR - 25 16 GV

① ② ③ ④

① ② ③ ④

① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm) ④ G=油路板型 / GV=油路板型 + 流量控制阀



Dimensions 尺寸

MODEL NO.	CSDR/L-2516G	CSDR/L-3017G	CSDR/L-3618G	CSDR/L-4220G	CSDR/L-5026G	CSDR/L-6028G
A	122.5	134	144	146	182.5	198
B	106.5	117	126	126	156.5	170
C	80.5	88	92	88	114.5	122
$\varnothing D$	25	30	36	42	50	60
$\varnothing D1$	37	42	48	55	65	75
$\varnothing D2$	15	18	22	25	30	35
$\varnothing D3$	17	20	25	28	34	40
E	2	2	2	2	2	2
F	27	30	30	28	31	37
G	16	18	22	24	30	32
G1	18	21	22	24	30	32
H	31.5	36	40	47	55	63
J	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4
K	40	47	51	60	70	80
L	17	19	23	26	29	35
L1	14	16	19	22	25	31
N	32	36.5	42	50	57	65
P	26	28	35	38	50	58
Q	M14 x 1.5P	M16 x 1.5P	M20 x 1.5P	M22 x 1.5P	M27 x 1.5P	M28 x 1.5P
R	20	23.5	25.5	30	35	40
R1	49	56	61	69	81	92
S	4.5	5.5	5.5	6.8	6.8	9
T	8	9.5	9.5	11	11	14
U	7	12	11	11.5	13	16
X	23.5	26	30	33.5	39.5	45
Z	P5-1B	P5-1B	P5-1B	P5-1B	P7-1B	P7-1B
AA	50	56.5	65.5	77	92	105
AB	13	14	17.5	19	25	29
AC	12	13	15	15	15	20
AD	10	12	12	17	20	22
$\varnothing Ad$	$\varnothing 15$	$\varnothing 17$	$\varnothing 21$	$\varnothing 23.5$	$\varnothing 29$	$\varnothing 33$
AE	M5	M6	M6	M8	M10	M12
BA	7.1	7.1	6.6	7.1	7.65	7.15
BB	13.7	13.7	13.2	13.7	17.25	16.75
BC	3.9	3.9	3.4	3.9	3.8	3.3
$\varnothing CA$	$\varnothing 4$	$\varnothing 4$	$\varnothing 5$	$\varnothing 6$	$\varnothing 6$	$\varnothing 8$
CB	8	9	11.5	13	15.5	18
CC	17.4	18.5	21.5	24.5	27.5	28.5
$\varnothing CD$	$\varnothing 4$	$\varnothing 4$	$\varnothing 5$	$\varnothing 6$	$\varnothing 6$	$\varnothing 8$
CE	8	9	11.5	13	15.5	18
CF	10.4	10.5	12.5	14.5	16.5	17.5

小巧型旋转式夹紧器 GP/GPV型 (销孔)  
Compact Swing Clamp GP / GPV Type (Pin Hole)



特性

1. 主杆销孔型
2. 平衡杠杆应用类型
3. 内径范围:  $\varnothing 25\sim 60$
4. 使用油压范围:  $20\sim 70\text{kgf/cm}^2$
5. 使用环境温度:  $0\sim 60^\circ\text{C}$
6. 夹紧臂可选。

Features

1. Pin hole rod type
2. Balance lever application type
3. Piston Diameter :  $\varnothing 25\sim 60$
4. Operating Pressure :  $20\sim 70\text{kgf/cm}^2$
5. Operating Temperature :  $0\sim 60^\circ\text{C}$
6. Lever is option item

> CSDR - 25 16 GP

① ② ③ ④

CSDR - 25 16 GPV

① ② ③ ④

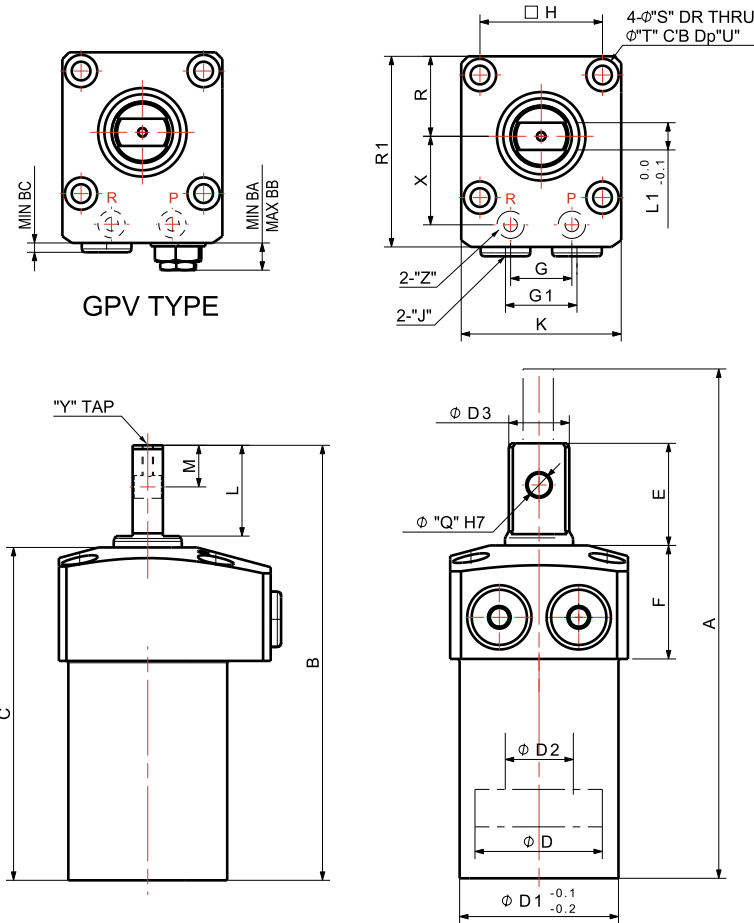
① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm)

④ GP=油路板型+主杆带销孔 / GPV=油路板型+主杆带销孔+流量控制阀

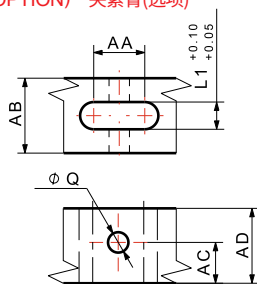
可以订GPV型产品  
GPV type is available.

Dimensions 尺寸

MODEL NO.	CSDR/L-2516GP	CSDR/L-3017GP	CSDR/L-3618GP	CSDR/L-4220GP	CSDR/L-5026GP	CSDR/L-6028GP
A	120.5	132	142	144	183.5	198
B	104.5	115	124	124	157.5	170
C	80.5	88	92	88	114.5	122
$\varnothing D$	25	30	36	42	50	60
$\varnothing D1$	37	42	48	55	65	75
$\varnothing D2$	15	18	22	25	30	35
$\varnothing D3$	13.5	16	20	23	28	33.5
E	24	27	32	36	43	48
F	27	30	30	28	31	37
G	16	18	22	24	30	32
G1	18	21	22	24	30	32
H	31.5	36	40	47	55	63
J	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4
K	40	47	51	60	70	80
L	21	24	27.5	31.5	38.5	43.5
L1	7	8	10	12	14	16
M	9	11	12	12.5	16.5	19
$\varnothing Q$	$\varnothing 6$	$\varnothing 6$	$\varnothing 8$	$\varnothing 10$	$\varnothing 13$	$\varnothing 13$
R	20	23.5	25.5	30	35	40
R1	49	56	61	69	81	92
S	4.5	5.5	5.5	6.8	6.8	9
T	8	9.5	9.5	11	11	14
U	7	12	11	11.5	13	16
X	23.5	26	30	33.5	39.5	45
Y	M3	M3	M4	M5	M6	M6
Z	P5-1B	P5-1B	P5-1B	P5-1B	P7-1B	P7-1B
AA	13	56.5	65.5	77	92	105
AB	20	22	28	32	40	44
AC	11	12	14.5	18	21	23.5
AD	19	22	25.5	29.5	36.5	41.5
BA	7.1	7.1	6.6	7.1	7.65	7.15
BB	13.7	13.7	13.2	13.7	17.25	16.75
BC	3.9	3.9	3.4	3.9	3.8	3.3



LEVER (OPTION) 夹紧臂(选项)



小巧型旋转式夹紧器 GP/GPV型 (夹紧臂快速更换)  
Compact Swing Clamp GQ / GQV Type (Quick Change)



特性

1. 夹紧臂快速更换
2. 快速安装、拿开产品容易
3. 内径范围:  $\varnothing 25\sim 60$
4. 使用油压范围:  $20\sim 70\text{kgf/cm}^2$
5. 使用环境温度:  $0\sim 60^\circ\text{C}$
6. 组装夹紧臂时, 固定状态下拧紧螺丝。
7. 夹紧臂可选。

Features

1. Quick lever change
2. Rapid installation and removal of workpiece
3. Piston Diameter :  $\varnothing 25\sim 60$
4. Operating Pressure :  $20\sim 70\text{kgf/cm}^2$
5. Operating Temperature :  $0\sim 60^\circ\text{C}$
6. When assembling the lever, the bolts should be fastened in a fixed state.
7. Lever is option item

可以订GQV型产品  
GQV type is available.

> SDR - 25 16 GQ

① ② ③ ④

SDR - 25 16 GQV

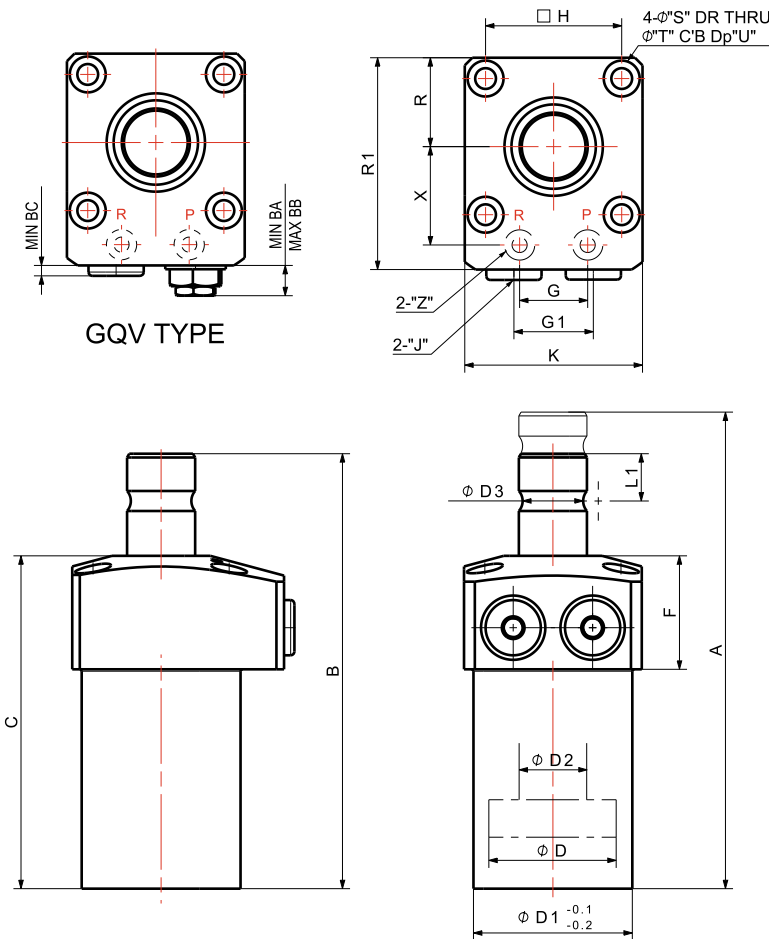
① ② ③ ④

① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm)

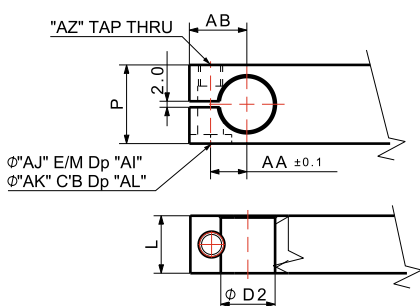
④ GQ=油路板型+夹紧臂快速更换 / GQV=油路板型+夹紧臂快速更换+流量控制阀

Dimensions 尺寸

MODEL NO.	CSDR/L-2516GQ	CSDR/L-3017GQ	CSDR/L-3618GQ	CSDR/L-4220GQ	CSDR/L-5026GQ	CSDR/L-6028GQ
A	120.5	132	142	144	183.5	198
B	104.5	115	124	124	157.5	170
C	80.5	88	92	88	114.5	122
$\varnothing D$	25	30	36	42	50	60
$\varnothing D1$	37	42	48	55	65	75
$\varnothing D2$	15	18	22	25	30	35
$\varnothing D3$	12.9	16	18.9	22	26	31
E	24	27	32	36	43	48
F	27	30	30	28	31	37
G	16	18	22	24	30	32
G1	18	21	22	24	30	32
H	31.5	36	40	47	55	63
J	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4
K	40	47	51	60	70	80
L	22	25	30	34	40	46
L1	11	12.5	15	17	20	23
P	22	26	32	36	45	53
R	20	23.5	25.5	30	35	40
R1	49	56	61	69	81	92
S	4.5	5.5	5.5	6.8	6.8	9
T	8	9.5	9.5	11	11	14
U	7	12	11	11.5	13	16
X	23.5	26	30	33.5	39.5	45
Z	P5-1B	P5-1B	P5-1B	P5-1B	P7-1B	P7-1B
AA	9.5	11.6	14.5	16.5	20	23.5
AB	15	19	23	26.5	31.5	36.5
AI	15.5	19	22	26	31.5	38
AJ	6.5	8.5	11	12.5	14.5	16.5
AK	11	14	18	20	23	26
AL	2	3	4	4	5	7
AZ	M6	M8	M10	M12	M14	M16
BA	7.1	7.1	6.6	7.1	7.65	7.15
BB	13.7	13.7	13.2	13.7	17.25	16.75
BC	3.9	3.9	3.4	3.9	3.8	3.3



LEVER (OPTION) 夹紧臂(选项)





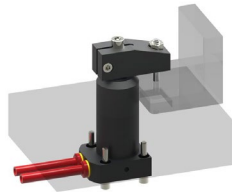
## Swing Clamp Bottom Flange Type 下部凸缘型旋转式夹紧器

Piping Method 螺纹配管和座垫式配管

Manifold Method 座垫式配管



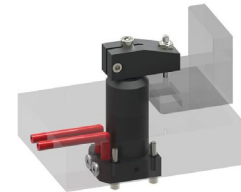
F type 1



F type 2



FG type



FGT type

Rod Shape 主杆形状



Standard



Pin Hole (P48)

### Model No.

### SDR-2522F



#### 1 Clamp Type 夹紧类型

SDR = SWING RIGHT  
SDL = SWING LEFT

#### 2 Piston Diameter 内径

ex) 25 =  $\phi 25$

#### 3 Piston Rod Stroke 主杆行程

ex) 22 = 22mm

#### 5 Swing Angle 旋转角度

No sign = 90°  
ex) 30 = 30°

#### 4 Type 类型

- > F = Bottom Flange
- > FP = Bottom Flange + Pin Hole Rod
- > FG = Bottom Flange + Gasket
- > FGP = Bottom Flange + Gasket + Pin Hole Rod
- > FGV = Bottom Flange + Gasket + Flow Control Valve
- > FGPV = Bottom Flange + Gasket + Pin Hole Rod + Flow Control Valve
- > FGT = Bottom Flange + Gasket Top
- > FGPT = Bottom Flange + Gasket Top + Pin Hole Rod
- > FGVT = Bottom Flange + Gasket Top + Flow Control Valve
- > FGPVT = Bottom Flange + Gasket Top + Pin Hole Rod + Flow Control Valve

### Specification

型号	SDR / L-2522 □					SDR / L-3030 □					SDR / L-4045 □					SDR / L-5555 □				
类型	F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT
	FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT
重量 (kg)	1.23	1.24	1.25	1.24	1.25	2.21	2.25	2.26	2.24	2.25	3.97	4.02	4.03	4.02	4.03	8.27	8.34	8.36	8.34	8.36
	1.22	1.23	1.24	1.23	1.24	2.18	2.22	2.23	2.22	2.23	3.93	3.98	3.99	3.98	3.99	8.23	8.30	8.32	8.29	8.31
Cylinder Force(kgf)	590					780					1,600					3,530				
内径 (mm)	$\phi 25$					$\phi 30$					$\phi 40$					$\phi 55$				
油缸面积 (cm <sup>2</sup> )	2.36					3.13					6.41					14.13				
行程 (mm)	旋转行程	12				16					16					25				
	直向行程	10				14					29					30				
	全行程	22				30					45					55				
油缸容量 (cm <sup>3</sup> )	夹紧	5.20				9.38					28.83					77.72				
使用油压范围	20 ~ 150 kgf/cm <sup>2</sup>																			
使用环境温度	0 ~ 60°C																			

## 旋转式夹紧器 F型 Swing Clamp F Type



### 特性

1. 下部凸缘型
2. 更换夹紧臂容易
3. 快速安装、拿开产品容易
4. 内径范围:  $\varnothing 25\sim 55$
5. 使用油压范围:  $20\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

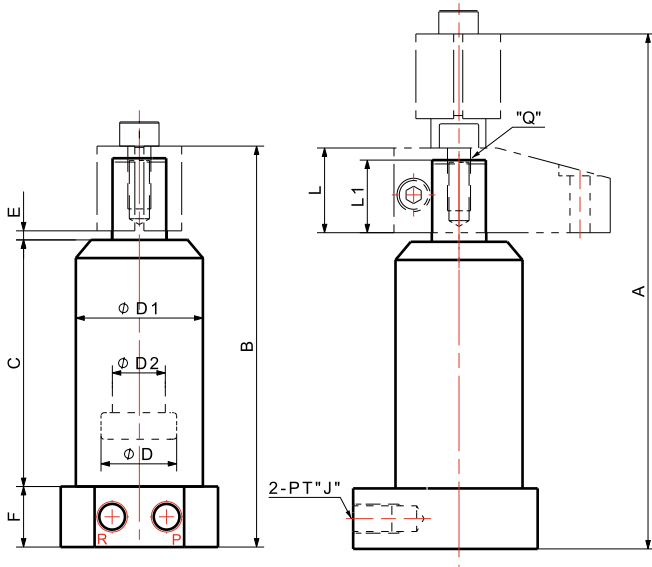
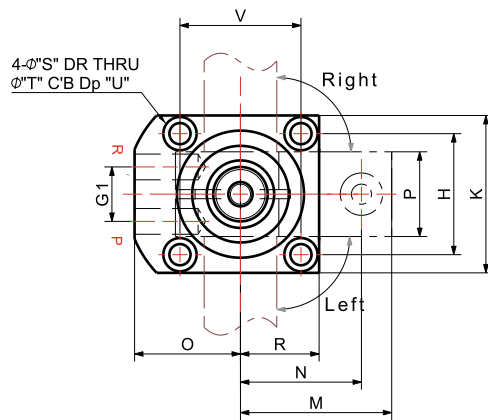
### Features

1. Bottom flange
2. Easy lever exchange
3. Rapid installation and removal of workpiece
4. Piston Diameter :  $\varnothing 25\sim 55$
5. Operating Pressure :  $20\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

### > SDR - 25 22 F

① ② ③ ④

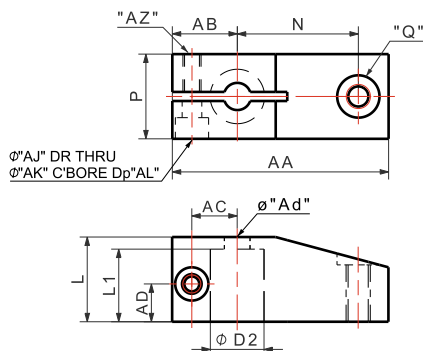
① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm)  
④ 下部凸缘型



### Dimensions 尺寸

MODEL NO.	SDR/L- 2522F	SDR/L- 3030F	SDR/L- 4045F	SDR/L- 5555F
A	154.5	188	223	288
B	132.5	158	178	233
C	81.5	98	112	160
$\varnothing D$	25	30	40	55
$\varnothing D1$	42	52	65	85
$\varnothing D2$	18	22.4	28	35
E	3	3	3	3
F	20	25	28	30
G1	18	22	24	30
H	40	46	64	76
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
K	52	60	80	97
L	28	32	35	40
L1	24	27	29	34
M	50	60	75	90
N	40	50	60	70
O	35	40	50	59
P	28	32	38	60
Q	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
R	26	30	40	48.5
S	7	7	9	11
T	11	11	14	17
U	7	7	9	11
V	40	46	64	76
AA	71.5	88	110	130
AB	21.5	28	35	40
AC	15	19	24.5	28
AD	12.5	14	15	17
$\varnothing Ad$	$\varnothing 9$	$\varnothing 11$	$\varnothing 13$	$\varnothing 17$
AJ	6.5	9	11	11
AK	11	14	17	17
AL	7	9	11	20
AZ	M6	M8	M12	M16

### LEVER (OPTION) 夹紧臂(选项)



旋转式夹紧器 FG/FGV型  
Swing Clamp FG / FGV Type



特性

1. 座垫式配管
2. 更换夹紧臂容易
3. 快速安装、拿开产品容易
4. 内径范围:  $\varnothing 25\sim 55$
5. 使用油压范围:  $20\sim 150\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

Features

1. Gasket type
2. Easy lever exchange
3. Rapid installation and removal of workpiece
4. Piston Diameter :  $\varnothing 25\sim 55$
5. Operating Pressure :  $20\sim 150\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

> SDR - 25 22 FG

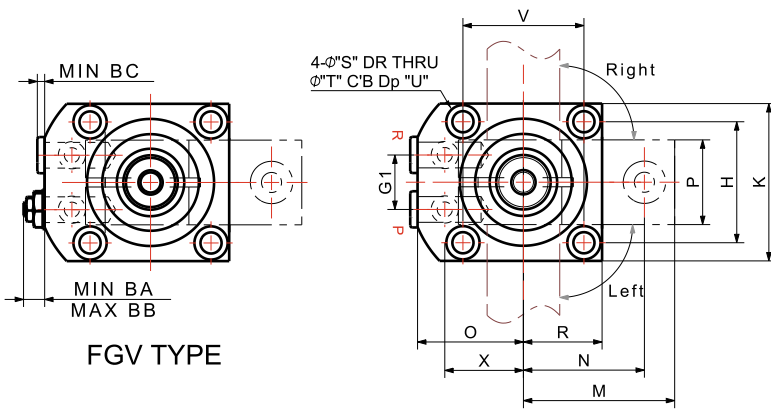
SDR - 25 22 FGV

① ② ③ ④

① ② ③ ④

① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm)

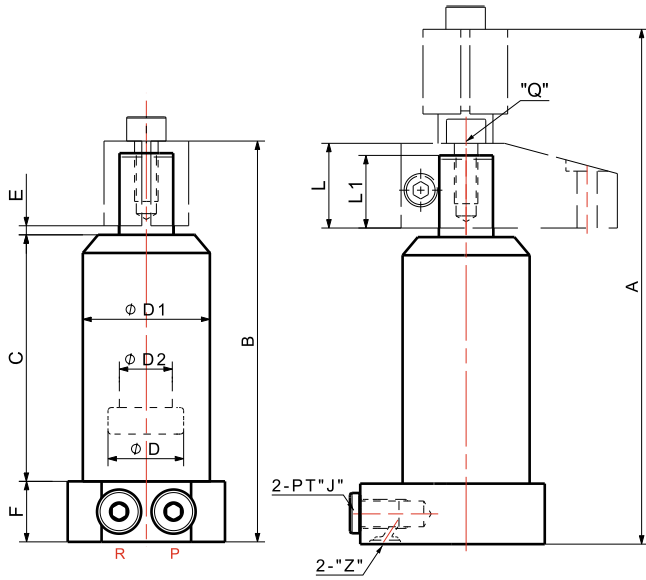
④ FG=下部凸缘+油路板型 / FGV=下部凸缘+油路板型+流量控制阀



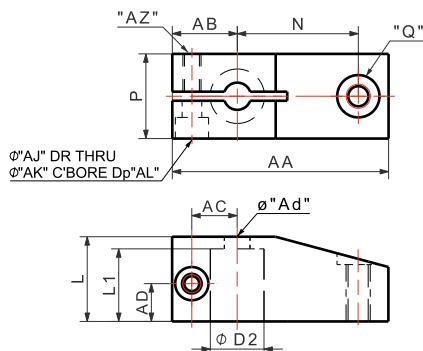
FGV TYPE

Dimensions 尺寸

MODEL NO.	SDR/L- 2522FG	SDR/L- 3030FG	SDR/L- 4045FG	SDR/L- 5555FG
A	154.5	188	223	288
B	132.5	158	178	233
C	81.5	98	112	160
$\varnothing D$	25	30	40	55
$\varnothing D1$	42	52	65	85
$\varnothing D2$	18	22.4	28	35
E	3	3	3	3
F	20	25	28	30
G1	18	20	24	30
H	40	46	64	76
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
K	52	60	80	97
L	28	32	35	40
L1	24	27	29	34
M	50	60	75	90
N	40	50	60	70
O	35	40	50	59
P	28	32	38	60
Q	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
R	26	30	40	48.5
S	7	7	9	11
T	11	11	14	17
U	7	7	9	11
V	40	46	64	76
X	26	31	38	47
Z	P6-1B	P6-1B	P6-1B	P7-1B
AA	71.5	88	110	130
AB	21.5	28	35	40
AC	15	19	24.5	28
AD	12.5	14	15	17
$\varnothing Ad$	$\varnothing 9$	$\varnothing 11$	$\varnothing 13$	$\varnothing 17$
AJ	6.5	9	11	11
AK	11	14	17	17
AL	7	9	11	20
AZ	M6	M8	M12	M16
BA	7.1	7.2	7.2	5.7
BB	13.7	16.8	16.8	15.3
BC	3.9	3.3	3.3	1.8



LEVER (OPTION) 夹紧臂(选项)



旋转式夹紧器 FGT/FGVT型

Swing Clamp Bottom Flange FGT / FGVT Type



特性

1. 在向上的方向座垫式配管
2. 更换夹紧臂容易
3. 快速安装、拿开产品容易
4. 内径范围:  $\varnothing 25 \sim 55$
5. 使用油压范围:  $20 \sim 150 \text{ kgf/cm}^2$
6. 使用环境温度:  $0 \sim 60^\circ\text{C}$
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

Features

1. Gasket located on the top of flange
2. Easy lever exchange
3. Rapid installation and removal of workpiece
4. Piston Diameter :  $\varnothing 25 \sim 55$
5. Operating Pressure :  $20 \sim 150 \text{ kgf/cm}^2$
6. Operating Temperature :  $0 \sim 60^\circ\text{C}$
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

> SDR - 25 22 FGT

SDR - 25 22 FGVT

① ② ③ ④

① ② ③ ④

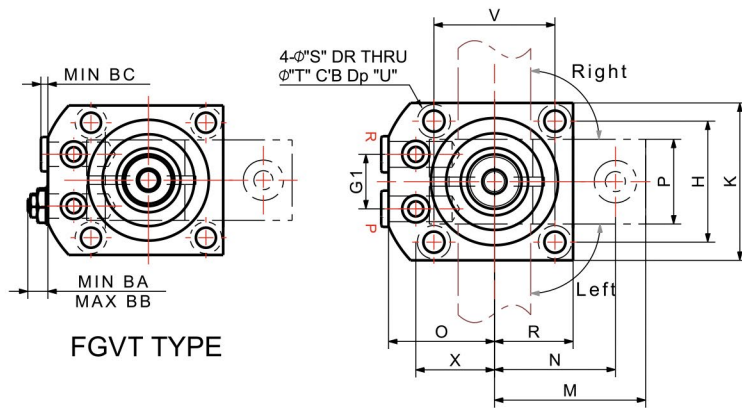
① R=Right, L=Left ② Piston Diameter (mm) ③ Total stroke(mm)

④ FGT = Bottom Flange Gasket Top / FGVT = Bottom Flange Gasket Top + Side Valve Type

Dimensions

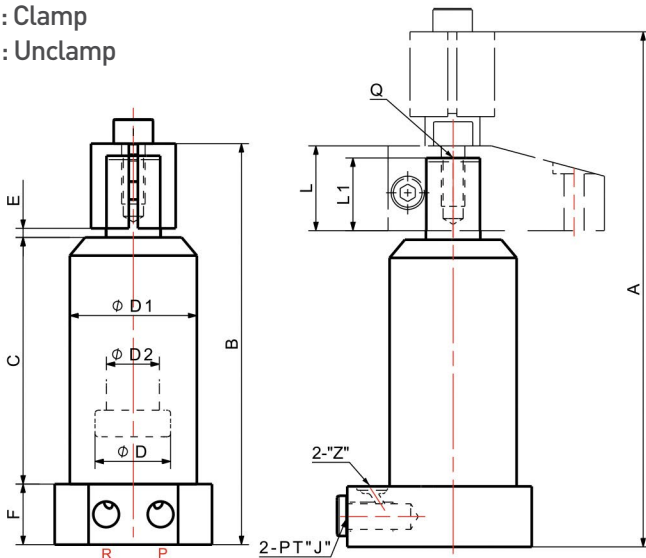
MODEL NO. SDR/L- 2522FGT SDR/L- 3030FGT SDR/L- 4045FGT SDR/L- 5555FGT

	SDR/L- 2522FGT	SDR/L- 3030FGT	SDR/L- 4045FGT	SDR/L- 5555FGT
A	154.5	188	223	288
B	132.5	158	178	233
C	81.5	98	112	160
$\varnothing D$	25	30	40	55
$\varnothing D1$	42	52	65	85
$\varnothing D2$	18	22.4	28	35
E	3	3	3	3
F	20	25	28	30
G1	18	20	24	30
H	40	46	64	76
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
K	52	60	80	97
L	28	32	35	40
L1	24	27	29	34
M	50	60	75	90
N	40	50	60	70
O	35	40	50	59
P	28	32	38	60
Q	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
R	26	30	40	48.5
S	7	7	9	11
T	11	11	14	17
U	7	7	9	11
V	40	46	64	76
X	26	31	38	47
Z	P6	P6	P6	P7
AA	71.5	88	110	130
AB	21.5	28	35	40
AC	15	19	24.5	28
AD	12.5	14	15	17
$\varnothing Ad$	9	11	13	17
AJ	6.5	9	11	11
AK	11	14	17	17
AL	7	9	11	20
AZ	M6	M8	M12	M16
BA	7.1	7.2	7.2	5.7
BB	13.7	16.8	16.8	15.3
BC	3.9	3.3	3.3	1.8

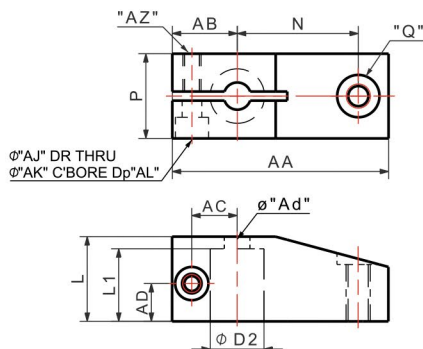


FGVT TYPE

P : Clamp  
R : Unclamp

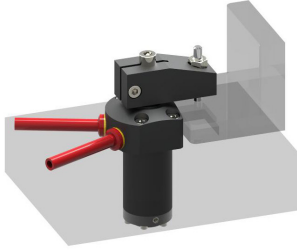


LEVER (OPTION)

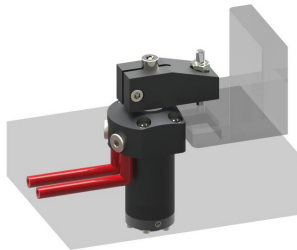


## Swing Clamp Top Flange Type 上部凸缘型旋转式夹紧器

Piping and Manifold Method  
G螺纹配管和座垫式配管



Standard  
标准型



G type  
油路板型(G型)



Standard



Pin Hole

### Model No. 型号

#### SDR-2522G



**1** Clamp Type 夹紧类型  
SDR = SWING RIGHT 右旋  
SDL = SWING LEFT 左旋

**3** Piston Rod Stroke 主杆行程  
ex) 22 = 22mm

**5** Swing Angle 旋转角度  
无记号 = 90°  
ex) 30 = 30°

**2** Piston Diameter 内径  
ex) 25 = Ø25

**4** Type 类型

- > No Sign = Standard
- > P = Pin Hole Rod
- > G = Gasket
- GP = Gasket + Pin Hole Rod
- GV = Gasket + Flow Control Valve
- GPV = Gasket + Pin Hole Rod + Flow Control Valve

### Specification 规格

型号	SDR / L-2522□□		SDR / L-3030□□		SDR / L-4045□□		SDR / L-5555□□	
	标准型	G	标准型	G	标准型	G	标准型	G
重量 (kg)	1.40		2.40		4.20		8.90	
油缸能力 (kgf)	590		780		1,600		3,530	
内径 (mm)	Ø25		Ø30		Ø40		Ø55	
油缸面积 (cm <sup>2</sup> )	2.36		3.13		6.41		14.13	
行程 (mm)	旋转行程	12	16	16	25			
	直向行程	10	14	29	30			
	全行程	22	30	45	55			
油缸容量 (cc)	夹紧	5.20	9.38	28.83	77.72			
使用油压范围	20 - 150 kgf/cm <sup>2</sup>							
使用环境温度	0 - 60 °C							

旋转式夹紧器 上部凸缘标准型

Swing Clamp Top Flange Standard Type



特性

1. 螺纹外壳
2. 更换夹紧臂容易
3. G螺纹配管
4. 内径范围: Ø25~55
5. 使用油压范围: 20~150kgf/cm<sup>2</sup>
6. 使用环境温度: 0~60°C
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

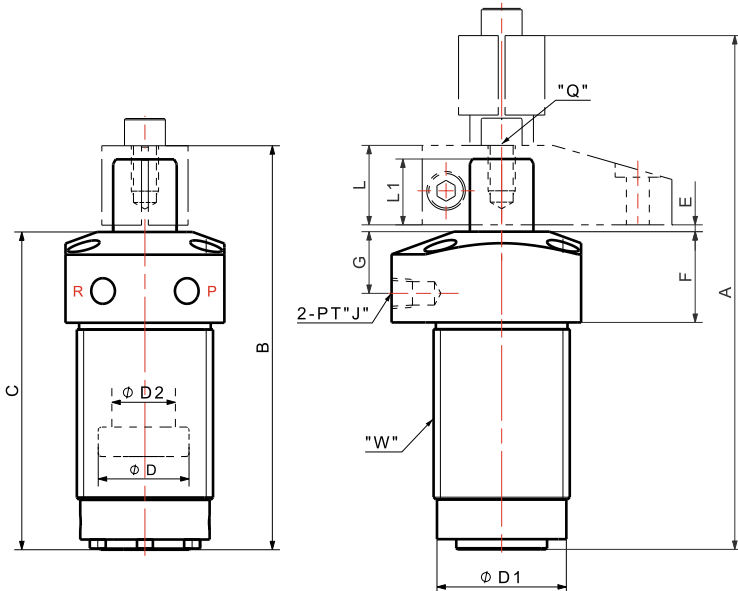
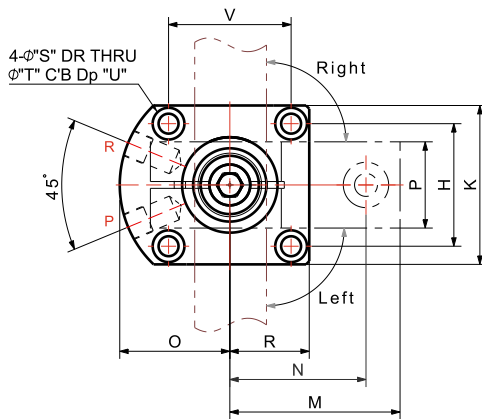
Features

1. Threaded housing
2. Easy lever exchange
3. Nipple piping
4. Piston Diameter : ø25~55
5. Operating Pressure : 20~150kgf/cm<sup>2</sup>
6. Operating Temperature : 0~60°C
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

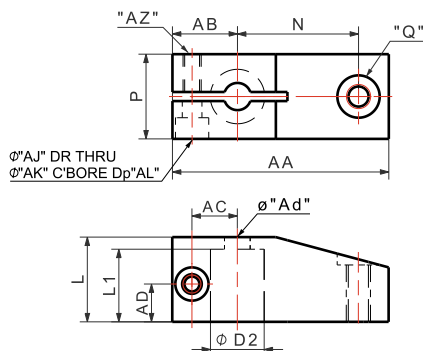
> SDR - 25 22

① ② ③

① R=右, L=左 ② 内径 ③ 全行程



LEVER (OPTION) 夹紧臂(选项)



Dimensions 尺寸

MODEL NO.	SDR/L- 2522	SDR/L- 3030	SDR/L- 4045	SDR/L- 5555
A	152	188	223	280
B	130	158	178	225
C	99	123	140	182
øD	25	30	40	55
øD1	37	45.5	57	76
øD2	18	22.4	28	35
E	3	3	3	3
F	30	35	40	45
G	21	22	26	30
H	42	42	54	70
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
K	55	54	70	89
L	28	32	35	40
L1	24	27	29	34
M	50	60	75	90
N	40	50	60	70
O	32	36.5	48.5	59
P	28	32	38	60
Q	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
R	19	27	35	44.5
S	6.5	6.5	9	11
T	11	11	14	17
U	15	15	20	25
V	25	42	54	70
W	M40 x 1.5P	M48 x 1.5P	M60 x 1.5P	M80 x 2.0P
AA	71.5	88	110	130
AB	21.5	28	35	40
AC	15	19	24.5	28
AD	12.5	14	15	17
øAd	ø9	ø11	ø13	ø17
AJ	6.5	9	11	11
AK	11	14	17	17
AL	7	9	11	20
AZ	M6	M8	M12	M16

旋转式夹紧器 上部凸缘G/GV型  
Swing Clamp Top Flange G / GV Type



特性

1. 座垫式配管
2. 更换夹紧臂容易
3. 内径范围: Ø25~55
4. 使用油压范围: 20~150kgf/cm<sup>2</sup>
5. 使用环境温度: 0~60°C
6. 组装夹紧臂时, 固定状态下拧紧螺丝。
7. 夹紧臂可选。

Features

1. Gasket manifold
2. Easy lever exchange
3. Piston Diameter : ø25~55
4. Operating Pressure : 20~150kgf/cm<sup>2</sup>
5. Operating Temperature : 0~60°C
6. When assembling the lever, the bolts should be fastened in a fixed state.
7. Lever is option item

> SDR - 25 22 G

① ② ③ ④

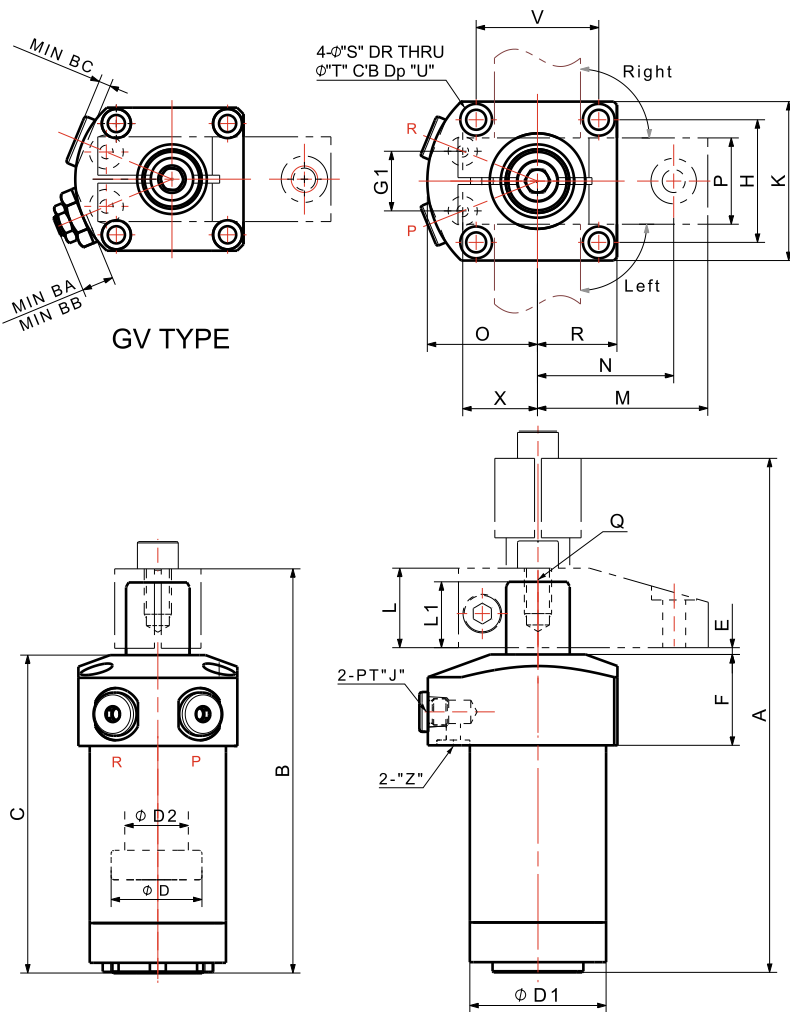
SDR - 25 22 GV

① ② ③ ④

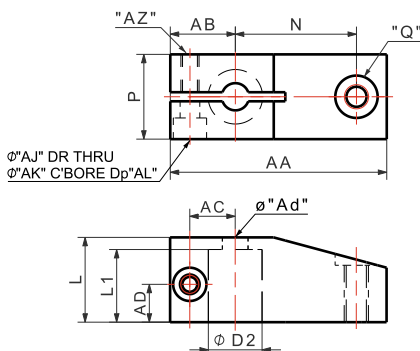
① R=右, L=左 ② 内径 (mm) ③ 全行程 (mm)  
④ G=油路板型 / GV=油路板型+流量控制阀

Dimensions 尺寸

MODEL NO.	SDR/L- 2522G	SDR/L- 3030G	SDR/L- 4045G	SDR/L- 5555G
A	152	188	223	280
B	130	158	178	225
C	99	123	140	182
øD	25	30	40	55
øD1	37	45.5	57	76
øD2	18	22.4	28	35
E	3	3	3	3
F	30	35	40	45
G1	20	23	31	35
H	42	42	54	70
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
K	55	54	70	89
L	28	32	35	40
L1	24	27	29	34
M	50	60	75	90
N	40	50	60	70
O	32	36.5	48.5	59
P	28	32	38	60
Q	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
R	19	27	35	44.5
S	6.5	6.5	9	11
T	11	11	14	17
U	15	15	20	25
V	25	42	54	70
X	23	25.5	35	43
Z	P6-1B	P6-1B	P6-1B	P10-1B
AA	71.5	88	110	130
AB	21.5	28	35	40
AC	15	19	24.5	28
AD	12.5	14	15	17
øAd	ø9	ø11	ø13	ø17
AJ	6.5	9	11	11
AK	11	14	17	17
AL	7	9	11	20
AZ	M6	M8	M12	M16
BA	7.2	7.2	7.2	5.7
BB	13.7	16.8	16.8	15.3
BC	3.9	3.3	3.3	1.8



LEVER (OPTION) 夹紧臂(选项)



## 销孔竿

P/GP/GPV Type

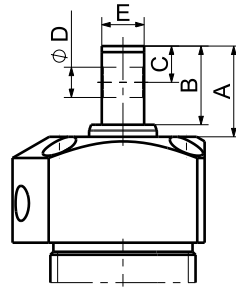
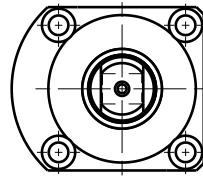
FP/FGP/FGPV/FGPT/FGPVT Type



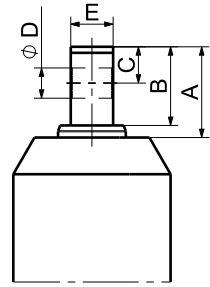
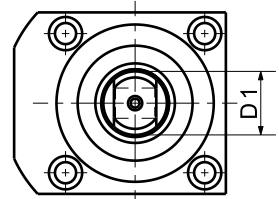
Top Flange



Bottom Flange



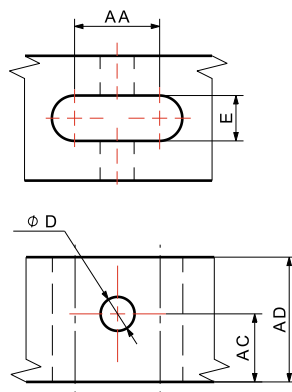
Top Flange Type



Bottom Flange Type

MODEL NO.	DIMENSIONS (mm)					
	A	B	C	$\phi D$	$\phi D1$	E
SDR/L-2522□P□	27	22.5	10	8	17	12
SDR/L-3030□P□	30	26	12	10	21	14
SDR/L-4045□P□	34	31	14	12	26.5	18
SDR/L-5555□P□	43	38	18	16	33	22

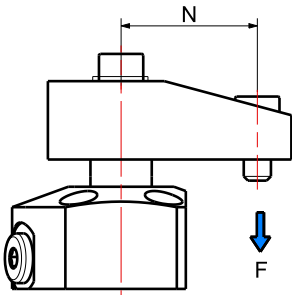
## Lever (Option)



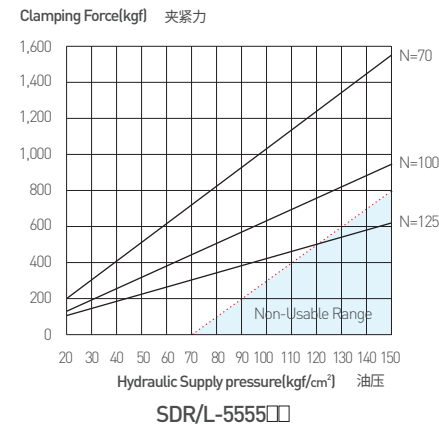
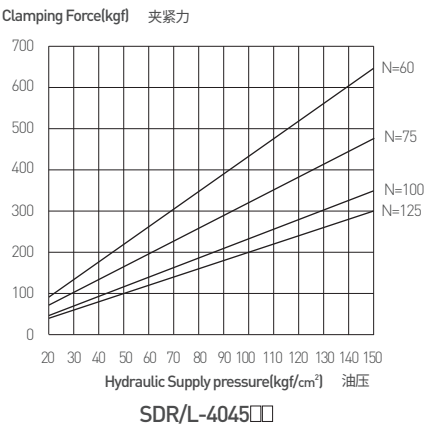
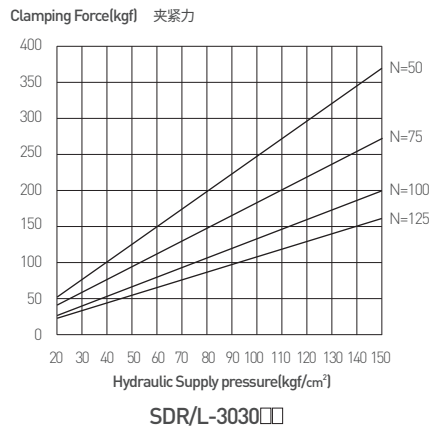
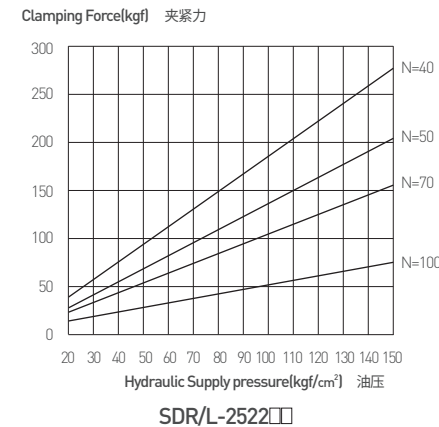
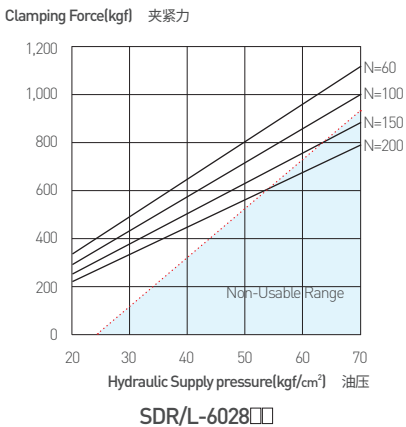
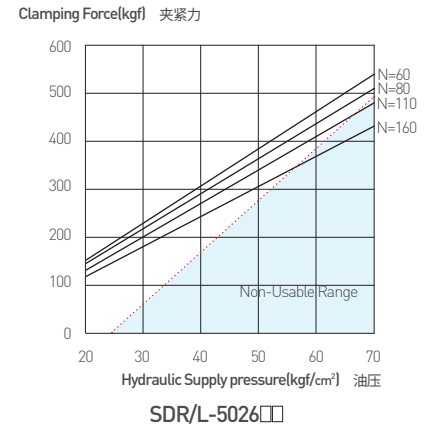
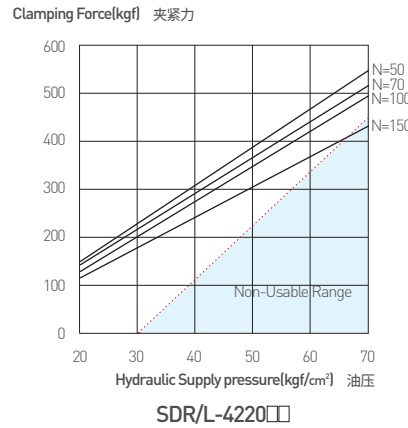
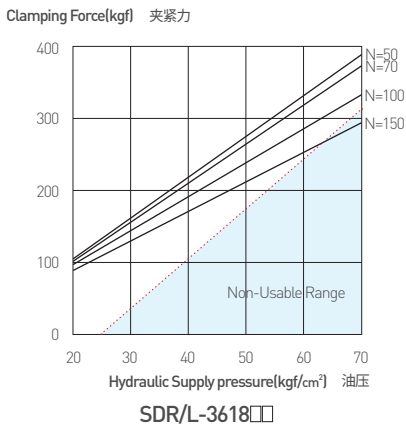
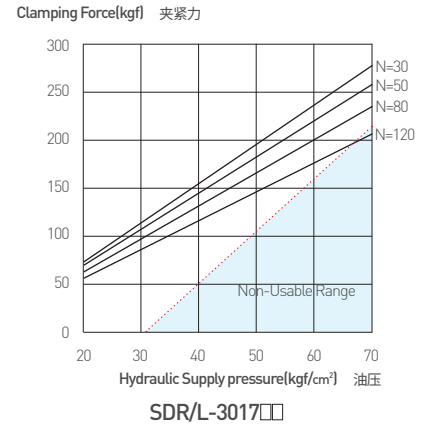
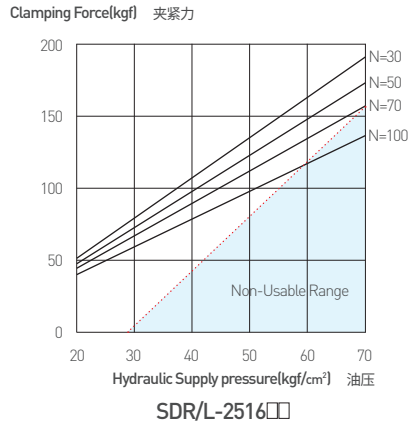
MODEL NO.	DIMENSIONS (mm)				
	AA	AC	$\phi D$	AD	E
SDR/L-2522□P□	17	11.5	8	20.5	12
SDR/L-3030□P□	21	13	10	24	14
SDR/L-4045□P□	26	16	12	29	18
SDR/L-5555□P□	33	19	16	36	22



夹紧能力 Clamp Capability



Standard Lever 标准杠杆



平衡杠杆应用类型

夹紧力计算公式

SDR/L-2516□	$F_1 = \frac{N_1}{N} \times 3.14 \times P$	$F_2 = \frac{N_2}{N} \times 3.14 \times P$
SDR/L-3017□	$F_1 = \frac{N_1}{N} \times 4.52 \times P$	$F_2 = \frac{N_2}{N} \times 4.52 \times P$
SDR/L-3618□	$F_1 = \frac{N_1}{N} \times 6.37 \times P$	$F_2 = \frac{N_2}{N} \times 6.37 \times P$
SDR/L-4220□	$F_1 = \frac{N_1}{N} \times 8.94 \times P$	$F_2 = \frac{N_2}{N} \times 8.94 \times P$
SDR/L-5026□	$F_1 = \frac{N_1}{N} \times 12.56 \times P$	$F_2 = \frac{N_2}{N} \times 12.56 \times P$
SDR/L-6028□	$F_1 = \frac{N_1}{N} \times 18.64 \times P$	$F_2 = \frac{N_2}{N} \times 18.64 \times P$

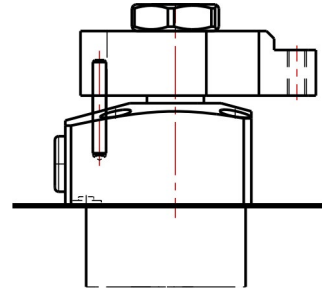
## 备注事项 Recommendations

### 1. 辅助导向销安装

如果要在特定点夹紧，请安装辅助导向销。

### 1. Assist Guide Pin Installation

If you want to clamp at specific point, please install the assist guide pin.

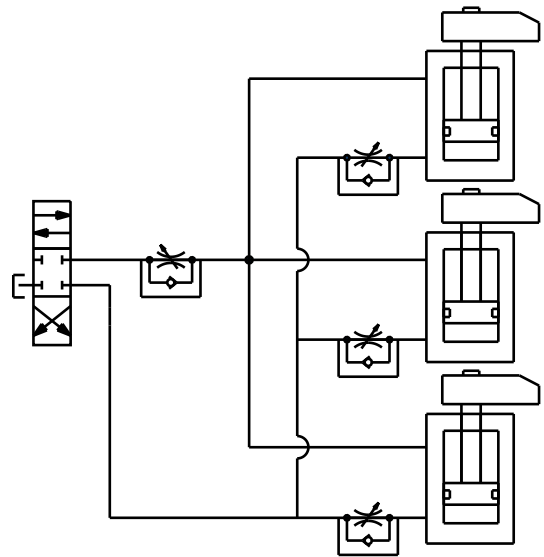


### 2. 运行速度控制

请正确控制夹具气缸摆动夹的夹紧和松开速度，以防快速操作导致惯性碰撞损坏夹具。

### 2. Operating Speed Control

Please control both clamping and unclamping speed of swing clamp properly to prevent damage due to moment of inertia by fast operation.

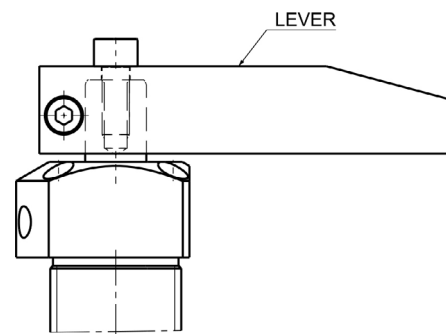


### 3. 夹紧臂长度

如果夹紧臂较长或较重，则必须安装控制阀和辅助导向销。

### 3. Lever Length

If lever is long or heavy, speed control valve and assist guide pin must be installed.

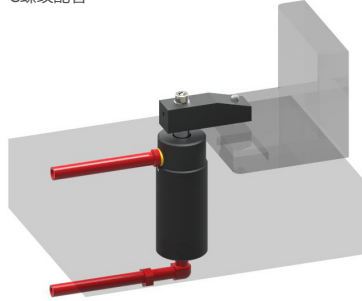


### 4. 建议使用速度控制阀..

4. Using Speed Control Valve is recommended.

## Swing Clamp Pneumatic (Air) Type 气动型旋转式夹紧器

Piping Method  
G螺纹配管



### Model No. 型号

#### SDR-1514A



**1** Clamp Type 夹紧类型  
SDR = SWING RIGHT 右旋  
SDL = SWING LEFT 左旋

**2** Piston Diameter 内径  
ex) 15 = Ø15

**3** Piston Rod Stroke 主杆行程  
ex) 14 = 14mm

**4** Type 类型  
> A = 气动

**5** Swing Angle 旋转角度  
无记号 = 90°  
ex) 30 = 30°

### Specification 规格

型号	SDR / L-1514A	SDR / L-2018A	SDR / L-2518A	SDR / L-3025A	SDR / L-4032A	SDR / L-5032A
重量 (kg)	0.18	0.32	0.50	0.92	1.51	2.07
夹紧力 (kgf)	最大	12.5	22.1	40.8	58.8	106.9
	正常	3.8	5.8	12.4	17.8	32.4
内径 (mm)	Ø15	Ø20	Ø25	Ø30	Ø40	Ø50
气缸面积 (cm <sup>2</sup> )	1.26	2.20	4.12	5.93	10.79	17.08
行程 (mm)	旋转行程	7.0	9.0	8.0	15.0	17.0
	直向行程	7.0	9.0	10.0	10.0	15.0
	全行程	14.0	18.0	18.0	25.0	32.0
使用气压范围	3 - 9.9 kgf/cm <sup>2</sup>					
使用环境温度	0 - 60 °C					

旋转式夹紧器 气动型  
Swing Clamp Pneumatic Type



特性

1. 用空气压力运作, 较低的夹紧力上使用
2. 以复动形式固定和返回。
3. 夹紧器本体外螺纹, 固定方便
4. 内径范围:  $\phi 15\sim 50$
5. 使用气压范围:  $3\sim 9.9\text{kgf/cm}^2$
6. 使用环境温度:  $0\sim 60^\circ\text{C}$
7. 组装夹紧臂时, 固定状态下拧紧螺丝。
8. 夹紧臂可选。

Features

1. Operated by pneumatic and used for low clamping force
2. Double-acting
3. Easy installation with threaded body
4. Piston Diameter :  $\phi 15\sim 50$
5. Operating Pressure :  $3\sim 9.9\text{kgf/cm}^2$
6. Operating Temperature :  $0\sim 60^\circ\text{C}$
7. When assembling the lever, the bolts should be fastened in a fixed state.
8. Lever is option item

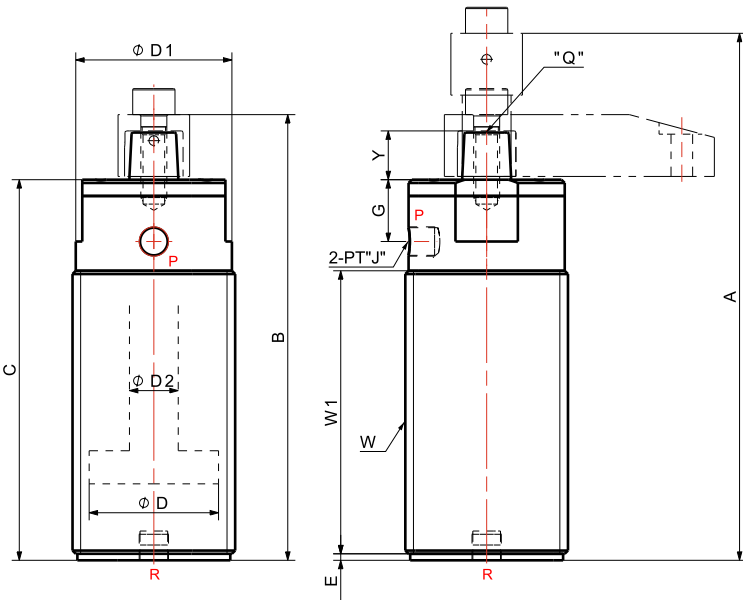
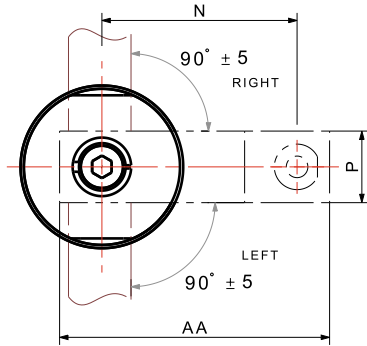
Mounting Accessory(Page 100) :

MBS	MBR
MBS2012	MBR2010
MBS2512	MBR2510
MBS3212	MBR3210
MBS4012	MBR4010
MBS5012	MBR5011
MBS6015	MBR6011

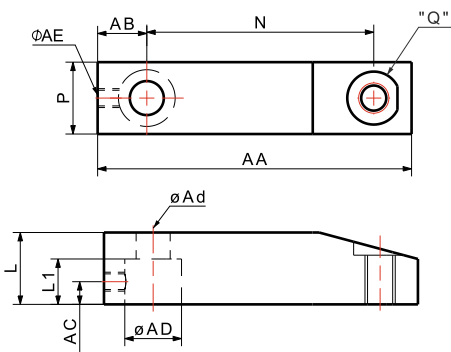
> SDR - 15 14 A

① ② ③ ④

① R=右, L=左 ② 内径(mm) ③ 全行程(mm)  
④ 气动型



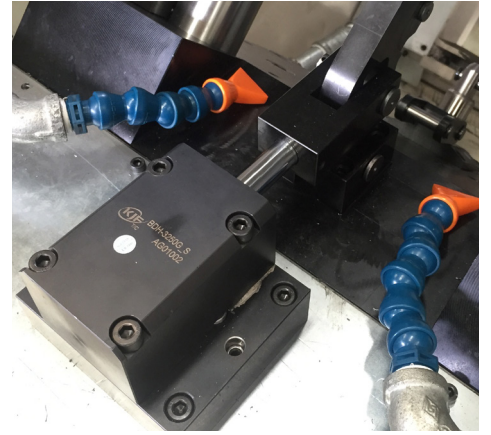
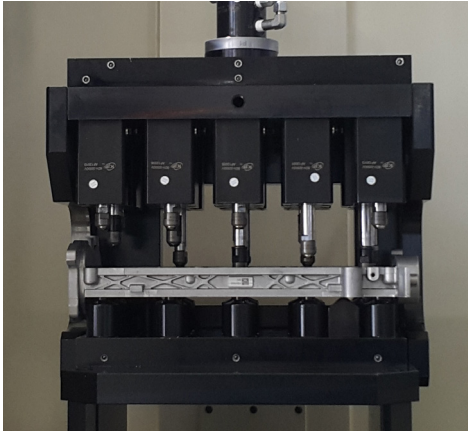
LEVER (OPTION) 夹紧臂(选项)



Dimensions 尺寸

MODEL NO.	SDR/L-1514A	SDR/L-2018A	SDR/L-2518A	SDR/L-3025A	SDR/L-4032A	SDR/L-5032A
A	97	114	120	150	169	173
B	83	96	102	125	137	141
C	70	79	85	105	117	120
φD	15	20	25	30	40	50
φD1	18.5	23	30	38	48	58
φD2	8	10	10	12	15	18
E	4	3	3	2	2	4
G	11	11	12.5	12	19	17
J	M5	M5	M5	PT 1/8	PT 1/8	PT 1/8
L	12	16	16	19	19	19
L1	8.5	12.5	12.5	12.5	14	14
N	25	30	35	35	60	70
P	14	16	16	19	22	25
Q	M4	M5	M6	M6	M8	M8
W	M20 x 1.0P	M25 x 1.5P	M32 x 1.5P	M40 x 1.5P	M50 x 1.5P	M60 x 1.5P
W1	50.5	59	65	83	87	90
Y	9.5	13.5	13.5	13.5	15	16
AA	38.5	45	55	55	83	95
AB	8.5	10	12	13	13	15
AC	7	10	10	10	11	6
φAd	4.5	5.5	6	7	9	9
φAD	11	13	13	15	18	21
φAE	2	3	3	3	3	3

Block Clamp Applications 块式夹紧器应用



Block Clamp Types 块式夹紧器类型



Vertical Push/Pull type  
垂直双动型



Vertical Double Rod type  
垂直双头杆型



Vertical Push type  
垂直单动型



Horizontal Push/Pull type  
水平双动型



Horizontal Double Rod type  
水平双头杆型



Horizontal Push type  
水平单动型

## Block Clamp Introduction 块式夹紧器介绍

块式夹紧器与一般液压缸相比短80mm。因简约且小型的设计在小型空间也能安装。KJF具备多种尺寸的块式夹紧器。

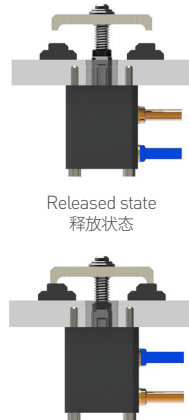
Block clamp is shorter than a normal hydraulic cylinder by 80 mm.

It is simple and compact, and easy to install in a crawlspace. KJF provides various sizes of block clamps.

### Mounting Method 安装方法

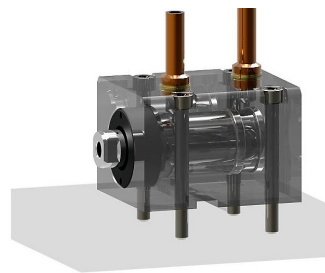


Vertical type  
垂直单动型



Released state  
释放状态

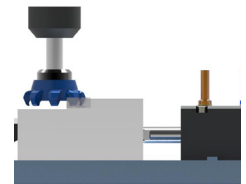
Locked state  
锁定状态



Horizontal type  
水平型



Released state  
释放状态



Locked state  
锁定状态

## 2. 标准品外非标品可订做

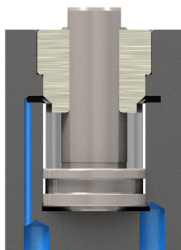
### Change of design

可以制作产品目录册外其他尺寸的产品 Size besides catalogue

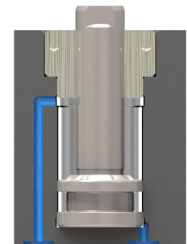
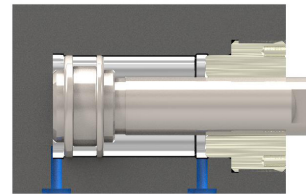
- 内径  $\phi 100, \phi 125$  等
- 行程 5mm, 35mm, 75mm, 100mm, 125mm 等
- Piston diameter  $\phi 100, \phi 125$  etc.
- Stroke 5mm, 35mm, 75mm, 100mm, 125mm etc.

- 可以制作主杆防旋转型及安装调速阀的产品
- Rotation prevention and installing valve are possible.

可以变更进油口、出口口位置 Changing Port location



可以订做座垫式配管产品 Case of Gasket type

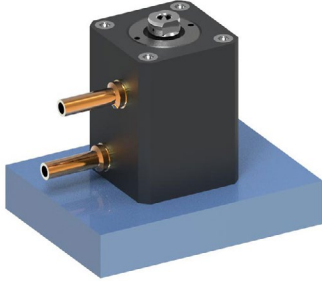


主杆也可以根据可以需要特殊订做 Changing Piston rod

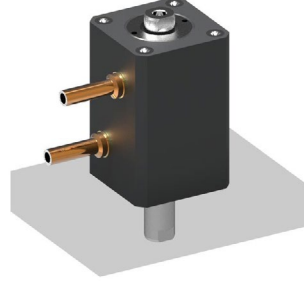


## Block Clamp Vertical Type 垂直型块式夹紧器

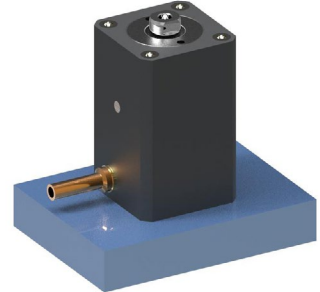
### Piping Method 螺纹配管



Push / Pull Type  
双动型

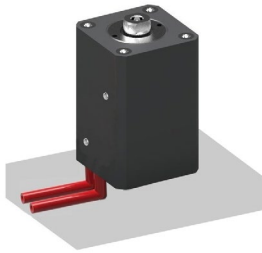


Double Rod Type  
双头杆型

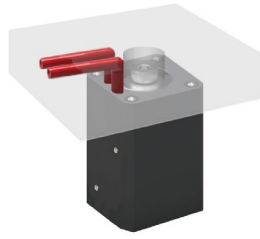


Push Type  
单动型

### Manifold Method 座垫式配管



Gasket Type  
油路板型



Gasket Upper Type  
油路板型

### Rod Shape 主杆形状



Threaded  
螺纹



Pin Hole  
针孔

### Model No. 型号

#### BDV-2815D

<b>BDV</b>	-	<b>28</b>	<b>15</b>	<b>D</b>
1		2	3	4

#### 1 Clamp Type 夹紧类型

BDV = Block Clamp, Double(Push/Pull)-acting, Vertical type  
块式夹紧器, 双动, 垂直型  
BPV = Block Clamp, Single(Push)-acting, Vertical type  
块式夹紧器, 单动, 垂直型

#### 2 Piston Diameter 内径

ex) 28 =  $\varnothing 28$

#### 3 Piston Rod Stroke 主杆行程

ex) 15 = 15mm

#### 4 Type 类型

- > No Sign = Standard
- > C = Threaded Rod
- > P = Pin Hole Rod
- > D = Double Rod
- > DC = Threaded Double Rod
- > G = Gasket
- > GU = Gasket Upper
- > GC = Gasket + Threaded Rod
- > GCU = Gasket Upper + Threaded Rod
- > GP = Gasket + Pin Hole Rod
- > GPU = Gasket Upper + Pin Hole Rod

# Specification 规格

## Push/Pull Type 双动型

\* C/P, G/GU, GC/GCU, GP/GPU type 應用  
 \* C/P, G/GU, GC/GCU and GP/GPU types are applied to below specification.

型号	重量 (kg)	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		使用油压范围	使用环境温度				
		推力	拉力	推力	拉力	推力	拉力						
BDV-2010	0.69	790	500	3.1	2.0	3.1	2.0	15~250 kgf/cm <sup>2</sup>	0~60°C				
BDV-2015	0.76					4.7	3.0						
BDV-2020	0.82					6.3	4.0						
BDV-2025	0.88					7.9	5.0						
BDV-2030	0.95					9.4	6.0						
BDV-2510	0.94	1,230	840	4.9	3.4	4.9	3.4						
BDV-2515	1.02					7.4	5.1						
BDV-2520	1.09					9.8	6.7						
BDV-2525	1.18					12.3	8.4						
BDV-2530	1.26					14.7	10.1						
BDV-2815	1.5	1,520	1,020	6.1	4.1	9.3	6.2						
BDV-2825	1.7					15.4	10.4						
BDV-2850	2.3					30.8	20.7						
BDV-3215	1.8					2,000	1,370			8.0	5.5	12.0	8.2
BDV-3225	2.1											20.1	13.7
BDV-3250	2.8	40.2	27.5										
BDV-4015	2.3	3,120	2,150	12.5	8.6							18.9	12.9
BDV-4025	2.5											31.4	21.6
BDV-4050	3.3					62.8	43.1						

型号	重量 (kg)	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		使用油压范围	使用环境温度				
		推力	拉力	推力	拉力	推力	拉力						
BDV-5015	3.3	4,950	3,400	19.6	13.4	29.4	20.2	15~250 kgf/cm <sup>2</sup>	0~60°C				
BDV-5025	3.6					49.1	33.7						
BDV-5050	4.5					98.2	67.4						
BDV-6315	4.7					7,770	5,320			31.1	21.3	46.8	31.8
BDV-6325	5.2											78.0	53.2
BDV-6350	6.3	155.9	106.4										
BDV-8015	10.5	12,550	8,600	50.2	34.4							75.4	51.5
BDV-8025	11.5											125.7	85.9
BDV-8050	14.3					251.4	171.8						
BDV-10050	15.5					392.5	269.5						
BDV-10075	17.8					588.8	404.3						
BDV-100100	20.1	19,630	13,470	78.5	53.9	785.0	539.0						
BDV-12050	25.2					613.5	447.5						
BDV-12075	28.3					920.3	671.3						
BDV-120100	31.5					1,277.0	895.0						
BDV-15050	37.1					30,670	22,380			122.7	89.5	883.5	691.0
BDV-15075	41.6	1,325.3	1,036.5										
BDV-150100	46.1	1,767.0	1,382.0										

## Double Rod Type 双头杆型 \* DC type 應用 \* DC type is applied to below specification.

型号	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		重量 (kg)	使用油压范围	使用环境温度
	Push	Pull	Push	Pull	Push	Pull			
BDV-2815D	1,020		4.1		6.2	1.7	15~250 kgf/cm <sup>2</sup>	0~60°C	
BDV-2825D					10.4	1.9			
BDV-2850D					20.7	2.7			
BDV-3215D	1,370		5.5		8.2	2.0			
BDV-3225D					13.7	2.5			
BDV-3250D					27.5	3.2			
BDV-4015D	2,150		8.6		12.9	2.7			
BDV-4025D					21.6	2.9			
BDV-4050D					43.1	3.9			
BDV-5015D	3,400		13.6		20.2	3.9			
BDV-5025D					33.7	4.2			
BDV-5050D					67.4	5.3			
BDV-6315D	5,320		21.3		31.8	5.7			
BDV-6325D					53.2	6.2			
BDV-6350D					106.4	7.6			
BDV-8015D	8,600		34.4		51.5	12.5			
BDV-8025D					85.9	12.6			
BDV-8050D					171.8	15.7			

## Push Type 单动型

型号	夹紧力(kgf)	油缸面积 (cm <sup>2</sup> )	油缸容量 (cm <sup>3</sup> )	重量 (kg)	使用油压范围	使用环境温度
	Push	Push	Push			
BPV-2815	1,520	6.1	9.3	1.4	15~250 kgf/cm <sup>2</sup>	0~60°C
BPV-2825			15.4	1.9		
BPV-3215	2,000	8.0	12.0	1.9		
BPV-3225			20.1	2.4		
BPV-4015	3,120	12.5	18.9	2.4		
BPV-4025			31.4	2.9		
BPV-5015	4,950	19.8	29.5	3.3		
BPV-5025			49.1	4.1		
BPV-6315	7,770	31.1	46.8	4.9		
BPV-6325			78.0	5.4		



块式夹紧器 垂直双动型

Block Clamp Push/Pull Vertical Type



特性

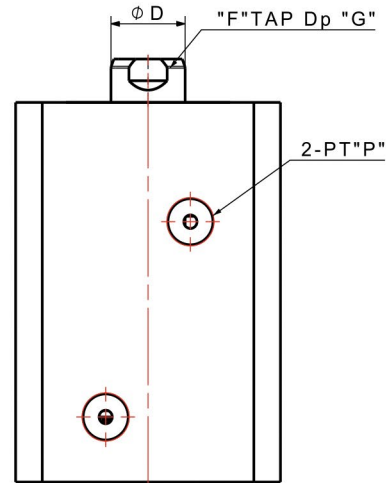
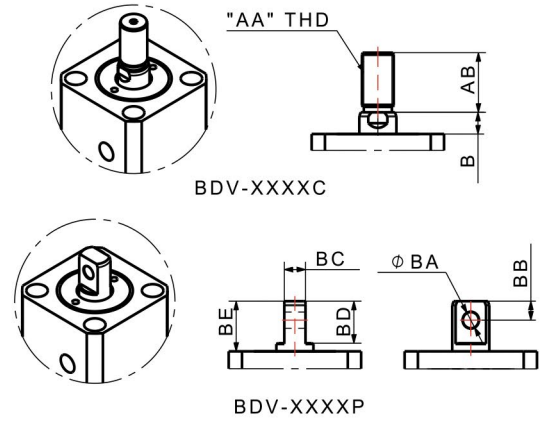
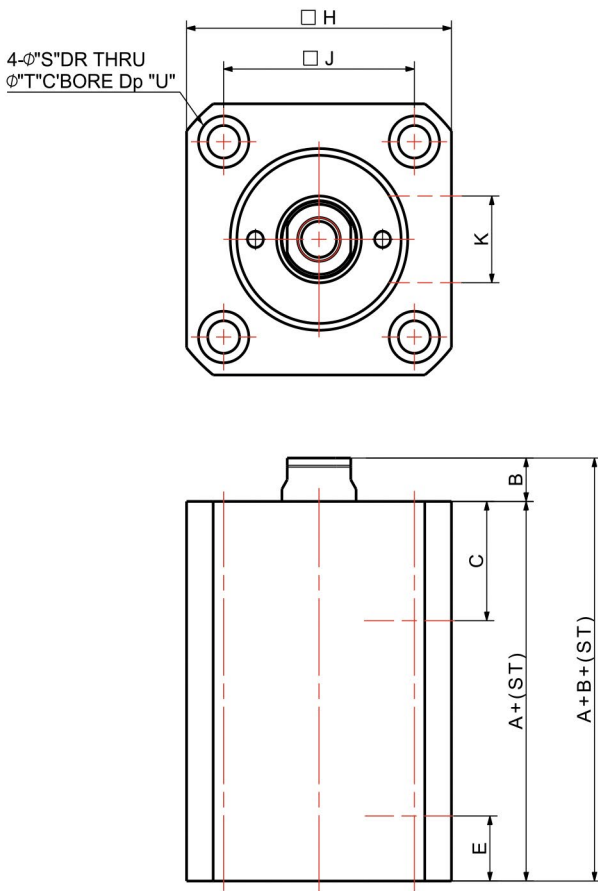
1. 复动式
2. 各种大小尺寸
3. 安装容易
4. 使用油压范围: 15~250kgf/cm<sup>2</sup>
5. 活塞速度: 8~100mm/s
6. 使用环境温度: 0~60°C

Features

1. Double-acting
2. Various sizes
3. Easy installation
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C

> **BDV - 20 10**      **BDV - 20 10 C**      **BDV - 20 10 P**  
 ① ② ③                      ① ② ③ ④                      ① ② ③ ④

① Vertical Type    ② Piston Diameter(mm)    ③ Stroke(mm)  
 ④ Threaded Rod, Pin Hole Rod



Dimensions

MODEL NO.	DIMENSIONS (mm)																				Piston dia.	
	A	B	C	φD	E	F	G	H	J	K	P	S	T	U	AA	AB	BA	BB	BC	BD		BE
BDV-20xx	43	8	21	12	12	M8 x 1.25P	16	44	30	0	1/8	5.5	9.5	7	M10 x 1.25P	20	φ6	7	8	15.5	18.5	φ20
BDV-25xx	45	8	22	14	12	M8 x 1.25P	16	50	36	16	1/8	5.5	9.5	5.5	M12 x 1.25P	22	φ6	7	8	15.5	18.5	φ25
BDV-28xx	50	8	23	16	12	M8 x 1.25P	12	56	42	16	1/8	5.5	9.5	5.5	M14 x 1.5P	25	φ8	8	12	20.5	23.5	φ28
BDV-32xx	54	10	26	18	12	M10 x 1.5P	15	62	47	20	1/4	6.6	11	7	M16 x 1.5P	25	φ8	9	14	21.5	24.5	φ32
BDV-40xx	55	10	27	22.4	12	M12 x 1.75P	20	70	52	20	1/4	9	14	9	M20 x 1.5P	30	φ10	11	16	25.5	28.5	φ40
BDV-50xx	60	10	29	28	13	M16 x 2.0P	25	80	58	20	1/4	11	17.5	11	M24 x 1.5P	35	φ12	13	20	29.5	32.5	φ50
BDV-63xx	67	13	31.5	35.5	15	M20 x 2.5P	33	94	69	20	1/4	14	20	13	M30 x 1.5P	45	φ16	17	25	35.5	38.5	φ63
BDV-80xx	78	17	33	45	20	M24 x 3.0P	33	114	86	30	3/8	16	23	16	M39 x 1.5P	60	φ18	20	32	42.5	45.5	φ80
BDV-100xx	88	20	41.5	56	22.5	M36 x 4.0P	40	136	102	46	3/8	20	29	20								φ100
BDV-125xx	102	25	43	65	25	M42 x 4.5P	45	163	124	52	1/2	21	31	22								φ125
BDV-150xx	105	25	43	70	26	M48 x 5.0P	50	198	148	52	1/2	26	38	26								φ150

块式夹紧器 垂直双动型油路板型

Block Clamp Push/Pull Vertical Gasket Type



G Type

GU Type

\* 螺紋/針孔可得到.  
\* Threaded Rod and Pin Hole Rod Type are available.

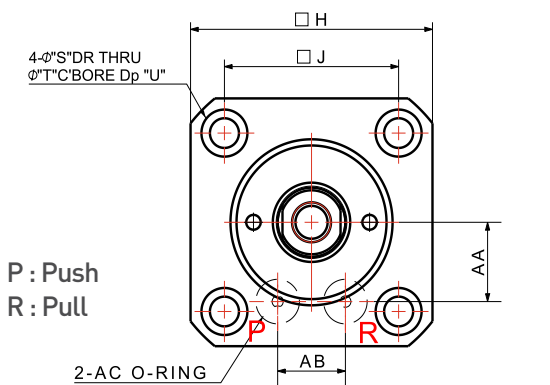
Features

- |                                      |   |
|--------------------------------------|---|
| 1. 复动式                               | 1. Double-acting                                  |
| 2. 油路板型                              | 2. Gasket type ports                              |
| 3. 安装容易                              | 3. Easy installation                              |
| 4. 使用油压范围: 15~250kgf/cm <sup>2</sup> | 4. Operating Pressure : 15~250kgf/cm <sup>2</sup> |
| 5. 活塞速度: 8~100mm/s                   | 5. Piston Speed : 8~100mm/s                       |
| 6. 使用环境温度: 0~60°C                    | 6. Operating Temperature : 0~60°C                 |

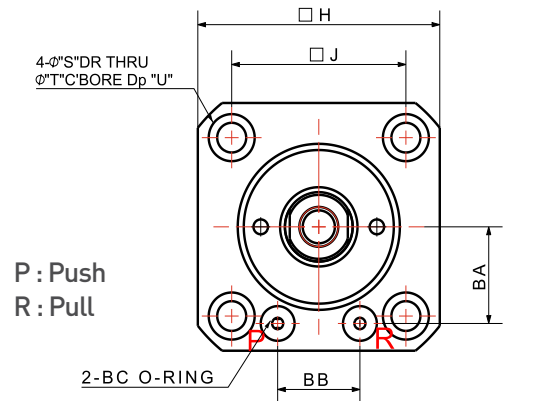
> BDV-20 10 G BDV-20 10 GU BDV-20 10 GC BDV-20 10 GP  
① ② ③ ④ ① ② ③ ④ ① ② ③ ④ ① ② ③ ④

BDV-20 10 GCU BDV-20 10 GPU  
① ② ③ ④ ① ② ③ ④

① Vertical Type ② Piston Diameter(mm) ③ Stroke(mm)  
④ Gasket, Gasket Upper, Gasket + Threaded Rod, Gasket Upper + Pin Hole Rod



G TYPE



GU TYPE

Dimensions

MODEL NO.	DIMENSIONS (mm)																	
	A	B	φD	F	G	H	J	S	T	U	AA	AB	AC	BA	BB	BC	Piston dia.	
BDV-20xxGx	43	8	12	M8 x 1.25P	16	44	30	5.5	9.5	7	13	10	P5	16.5	11	P4	φ20	
BDV-25xxGx	45	8	14	M8 x 1.25P	16	50	36	5.5	9.5	5.5	16	14	P6	19.5	17	P4	φ25	
BDV-28xxGx	50	8	16	M8 x 1.25P	12	56	42	5.5	9.5	5.5	17	16	P7	21	20	P5	φ28	
BDV-32xxGx	54	10	18	M10 x 1.5P	15	62	47	6.6	11	7	20	20	P8	24	24	P6	φ32	
BDV-40xxGx	55	10	22.4	M12 x 1.75P	20	70	52	9	14	9	24	20	P9	27.5	25	P6	φ40	
BDV-50xxGx	60	10	28	M16 x 2.0P	25	80	58	11	17.5	11	28	20	P9	31.5	27	P6	φ50	

块式夹器 垂直双头杆型

Block Clamp Push/Pull Double Rod Vertical Type



特性

1. 双头杆型
2. 各种大小尺寸
3. 复动式
4. 使用油压范围: 15~250kgf/cm<sup>2</sup>
5. 活塞速度: 8~100mm/s
6. 使用环境温度: 0~60°C

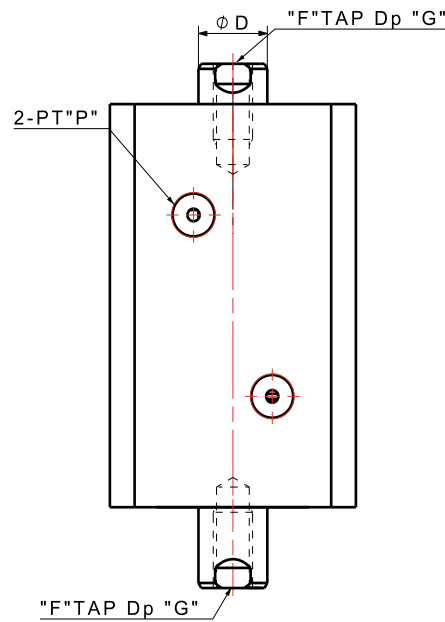
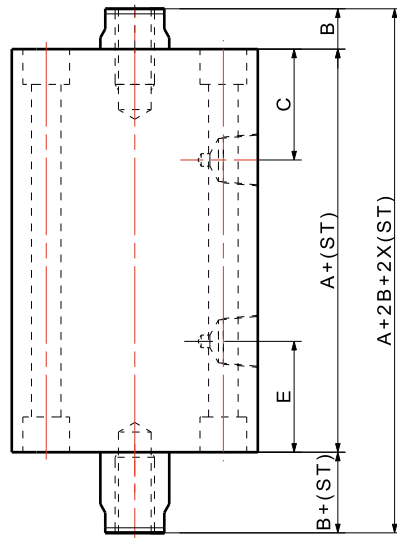
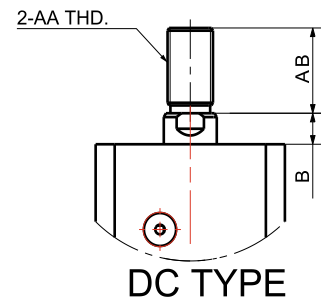
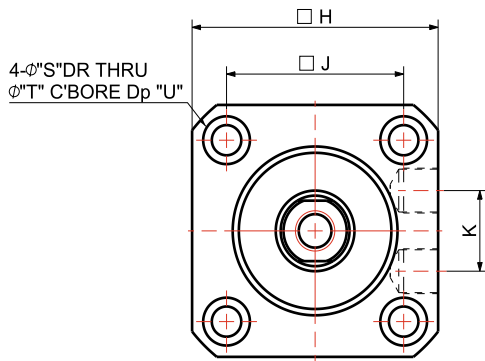
Features

1. Double rod type
2. Various sizes
3. Double-acting
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C

> BDV - 28 15 D      BDV - 28 15 DC

① ② ③ ④      ① ② ③ ④

- ① Vertical Type    ② Piston Diameter(mm)    ③ Stroke(mm)  
④ Double Rod Type, Double + Threaded Rod



Dimensions

MODEL NO.	DIMENSIONS (mm)																	Piston dia.
	A	B	C	φD	E	F	G	H	J	K	P	φS	φT	U	AA	AB	U	
BDV-28xxD	61	8	23	16	12	M8 x 1.25P	12	56	42	16	1/8	5.5	9.5	5.5	M14 x 1.5P	25	25	φ28
BDV-32xxD	68	10	26	18	12	M10 x 1.5P	15	62	47	20	1/4	5.6	11	7	M16 x 1.5P	25	25	φ32
BDV-40xxD	70	10	27	22.4	12	M12 x 1.75P	20	70	52	20	1/4	9	14	9	M20 x 1.5P	30	30	φ40
BDV-50xxD	75	10	29	28	13	M16 x 2.0P	25	80	58	20	1/4	11	17.5	11	M24 x 1.5P	35	35	φ50
BDV-63xxD	82	13	31.5	35.5	15	M20 x 2.5P	33	94	69	20	1/4	14	20	13	M30 x 1.5P	45	45	φ63
BDV-80xxD	92	17	33	45	20	M24 x 3.0P	33	114	86	30	3/8	16	23	16	M39 x 1.5P	60	60	φ80

块式夹紧器 垂直单动型  
Block Clamp Push Vertical Type



特性

1. 单动式
2. 弹簧复位
3. 安装容易
4. 使用油压范围: 15~250kgf/cm<sup>2</sup>
5. 活塞速度: 8~100mm/s
6. 使用环境温度: 0~60°C
7. 油路尽量要大。

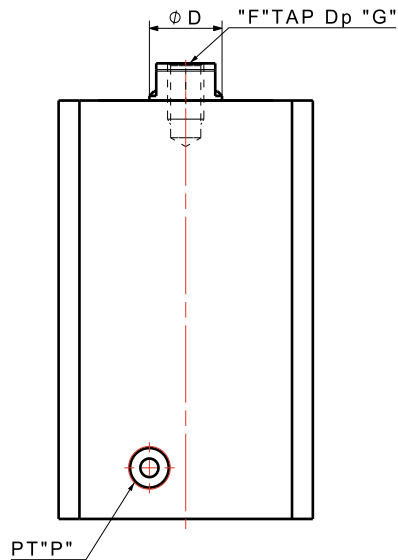
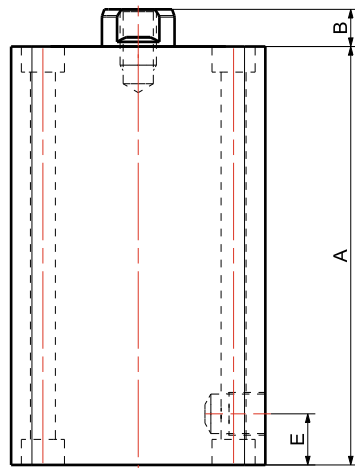
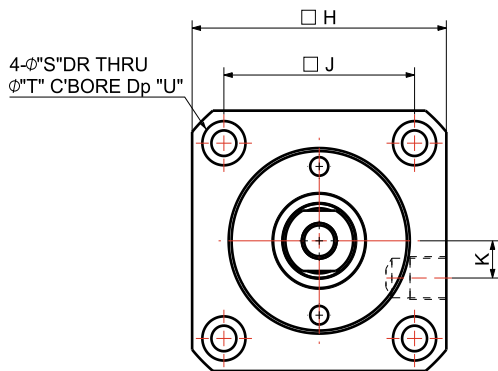
Features

1. Single-acting
2. Spring return method
3. Easy installation
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C
7. Make piping size as big as possible

> BPV - 28 15

① ② ③

①垂直型 ②内径(mm) ③行程(mm)

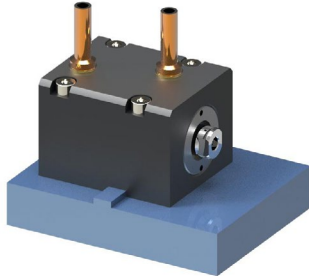


Dimensions 尺寸

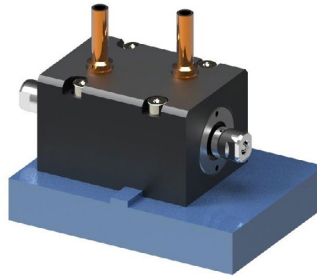
MODEL NO.	DIMENSIONS (mm)														
	A		B	øD	E	F	G	H	J	K	P	øS	øT	U	Piston dia.
BPV-28xx	ST15	ST25	8	16	11	M8 x P1.25	12	56	42	8	1/8	ø5.5	ø9.5	5.5	ø28
BPV-32xx	72	90	10	18	12.5	M10 x P1.5	15	62	47	10	1/8	ø6.6	ø11	6.5	ø32
BPV-40xx	73	93	10	22.4	12	M12 x P1.75	20	70	52	10	1/8	ø9	ø14	9	ø40
BPV-50xx	78	98	10	28	13	M16 x P2.0	25	80	58	10	1/4	ø11	ø18	12	ø50
BPV-63xx	86	106	13	35.5	15	M20 x P2.5	33	94	69	10	1/4	ø14	ø20	13	ø63

## Block Clamp Horizontal Type 水平型块式夹紧器

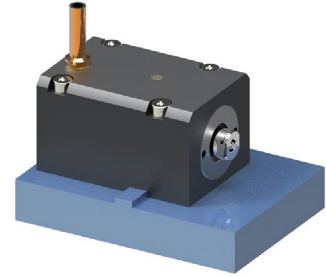
### Piping Method G螺纹配管



Push/Pull Type  
双动型

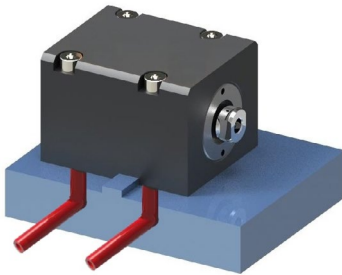


Double Rod Type  
双头杆型



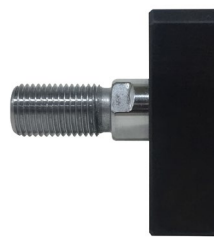
Push Type  
单动型

### Manifold Method 座垫式配管



Gasket Type

### Rod Shape 主杆形状



Threaded  
螺纹



Pin Hole  
针孔

## Model No. 型号

### BDH-2815D

<b>BDH</b>	-	<b>28</b>	<b>15</b>	<b>D</b>
1		2	3	4

#### 1 Clamp Type 夹紧器类型

BDH = Block Clamp, Double(Push/Pull)-acting, Horizontal type  
BPH = Block Clamp, Single(Push)-acting, Horizontal type

#### 2 Piston Diameter 内径

ex) 28 = ø28

#### 3 Piston Rod Stroke 主杆行程

ex) 15 = 15mm

#### 4 Type 类型

- > No Sign = Standard
- > C = Threaded Rod
- > P = Pin Hole Rod
- > D = Double Rod
- > DC = Threaded Double Rod
- > G = Gasket
- > GC = Gasket + Threaded Rod
- > GP = Gasket + Pin Hole Rod

# Specification 规格

## Push/Pull Type 双动型

\* C/P, G/GC/ GP type 應用  
 \* C/P and G/GC/GP types are applied to below specification.

型号	重量 (kg)	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		使用油压范围	使用环境温度
		推力	拉力	推力	拉力	推力	拉力		
BDH-2010	0.69	790	500	3.1	2.0	3.1	2.0	15~250 kgf/cm <sup>2</sup>	0~60°C
BDH-2015	0.76					4.7	3.0		
BDH-2020	0.82					6.3	4.0		
BDH-2025	0.88					7.9	5.0		
BDH-2030	0.95					9.4	6.0		
BDH-2510	0.94	1,230	840	4.9	3.4	4.9	3.4		
BDH-2515	1.02					7.4	5.1		
BDH-2520	1.09					9.8	6.7		
BDH-2525	1.18					12.3	8.4		
BDH-2530	1.26					14.7	10.1		
BDH-2815	1.5	1,520	1,020	6.1	4.1	9.3	6.2		
BDH-2825	1.7					15.4	10.4		
BDH-2850	2.3					30.8	20.7		
BDH-3215	1.8					12.0	8.2		
BDH-3225	2.1					20.1	13.7		
BDH-3250	2.8	40.2	27.5						
BDH-4015	2.3	3,120	2,150	12.5	8.6	18.9	12.9		
BDH-4025	2.5					31.4	21.6		
BDH-4050	3.3					62.8	43.1		

型号	重量 (kg)	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		使用油压范围	使用环境温度
		推力	拉力	推力	拉力	推力	拉力		
BDH-5015	3.3	4,950	3,400	19.6	13.4	49.5	20.2	15~250 kgf/cm <sup>2</sup>	0~60°C
BDH-5025	3.6					49.1	33.7		
BDH-5050	4.5					98.2	67.4		
BDH-6315	4.7					46.8	31.8		
BDH-6325	5.2					7,770	5,320		
BDH-6350	6.3	155.9	106.4						
BDH-8015	10.5	75.4	51.5						
BDH-8025	11.5	12,550	8,600	50.2	34.4	125.7	85.9		
BDH-8050	14.3	251.4	171.8						
BDH-10050	19.3	392.5	269.5						
BDH-10075	22.6	19,630	13,470	78.5	53.9	588.8	404.3		
BDH-100100	25.8	785.0	539.0						
BDH-12050	31.7	613.5	447.5						
BDH-12075	36.2	30,670	22,380	122.7	89.5	920.3	671.3		
BDH-120100	40.7	1,227.0	895.0						
BDH-15050	46.4	883.5	691.0						
BDH-15075	52.8	44,170	34,550	176.7	138.2	1,325.3	1,036.5		
BDH-150100	59.3	1,767.0	1,382.0						

## Double Rod Type 双头杆型

\* DC type 應用  
 \* DC type is applied to below specification.

型号	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		重量 (kg)	使用油压范围	使用环境温度
	推力	拉力	推力	拉力	推力	拉力			
BDH-2815D	1,020		4.1		6.2	1.8	15~250 kgf/cm <sup>2</sup>	0~60°C	
BDH-2825D					10.4	2.0			
BDH-2850D					20.7	2.7			
BDH-3215D	1,370		5.5		8.2	2.0			
BDH-3225D					13.7	2.7			
BDH-3250D					27.5	3.5			
BDH-4015D	2,150		8.6		12.9	2.7			
BDH-4025D					21.6	3.0			
BDH-4050D					43.1	4.1			
BDH-5015D	3,400		13.6		20.2	4.0			
BDH-5025D					33.7	4.6			
BDH-5050D					67.4	5.6			
BDH-6315D	5,320		21.3		31.8	6.5			
BDH-6325D					53.2	7.3			
BDH-6350D					106.4	9.0			
BDH-8015D	8,600		34.4		51.5	12.7			
BDH-8025D					85.9	13.8			
BDH-8050D					171.8	15.6			

## Push Type 单动型

型号	夹紧力(kgf)		油缸面积 (cm <sup>2</sup> )		油缸容量 (cm <sup>3</sup> )		重量 (kg)	使用油压范围	使用环境温度
	Push	Push	Push	Push					
BPH-2815	1,520		6.1		9.3	1.7	15~250 kgf/cm <sup>2</sup>	0~60°C	
BPH-2825					15.4	1.9			
BPH-3215	2,000		8.0		12.0	1.9			
BPH-3225					20.1	2.4			
BPH-4015	3,120		12.5		18.9	2.5			
BPH-4025					31.4	3.0			
BPH-5015	4,950		19.8		29.5	3.6			
BPH-5025					49.1	5.0			
BPH-6315	7,770		31.1		46.8	5.7			
BPH-6325					78.0	7.0			

块式夹紧器 水平双动型

Block Clamp Push/Pull Horizontal Type



特性

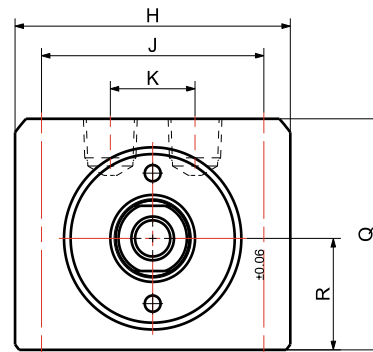
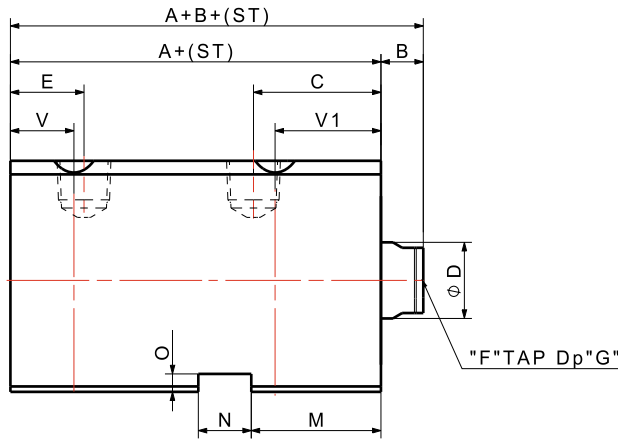
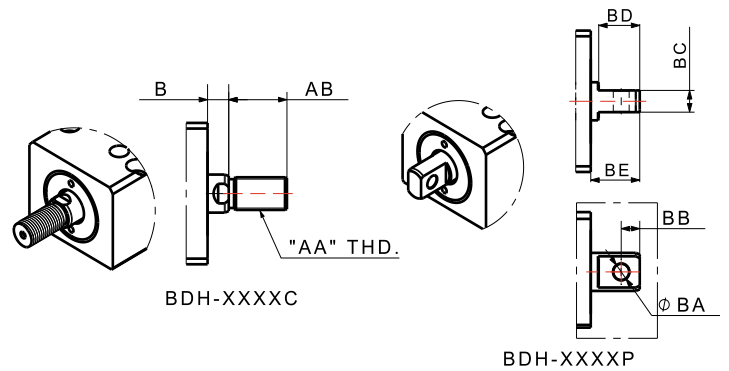
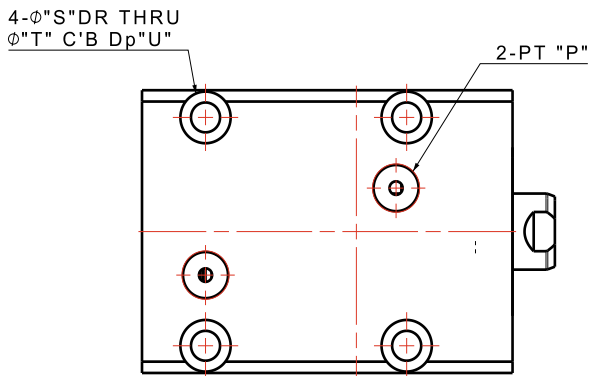
1. 复动式
2. 各种大小尺寸
3. 安装容易
4. 使用油压范围 : 15~250kgf/cm<sup>2</sup>
5. 活塞速度 : 8~100mm/s
6. 使用环境温度 : 0~60°C

Features

1. Double-acting
2. Various sizes
3. Easy installation
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C

> BDH - 20 10      BDH - 20 10 C      BDH - 20 10 P  
           ① ② ③                    ① ② ③ ④                    ① ② ③ ④

① Horizontal Type    ② Piston Diameter(mm)    ③ Stroke(mm)  
 ④ Threaded Rod, Pin Hole Rod

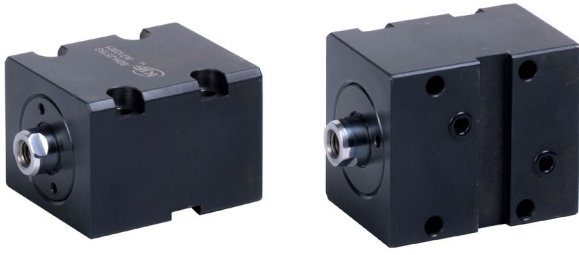


Dimensions

MODEL NO.	DIMENSIONS (mm)																												
	A	B	C	øD	E	F	G	H	J	K	M	N	O	P	Q	R	øS	øT	U	V	V1	AA	AB	BA	BB	BC	BD	BE	Piston dia.
BDH-20xx	43	8	20.5	12	12	M8 x 1.25P	16	45	35	0	22.5	10	3.3	1/8	40	18	5.5	9.5	6	12	18	M10 x 1.25P	20	ø6	7	8	15.5	18.5	ø20
BDH-25xx	45	8	22	14	12	M8 x 1.25P	16	52	42	16	24.5	10	3.3	1/8	43	21	5.5	9.5	6	12	20	M12 x 1.25P	22	ø6	7	8	15.5	18.5	ø25
BDH-28xx	50	8	23	16	12	M8 x 1.25P	12	62	50	16	25	10	3.3	1/8	52	24	6.6	11	6.5	12	20	M14 x 1.5P	25	ø8	8	12	20.5	23.5	ø28
BDH-32xx	54	10	26	18	12	M10 x 1.5P	15	70	56	20	28	12	3.3	1/4	56	25	9	14	9	10	20	M16 x 1.5P	25	ø8	9	14	21.5	24.5	ø32
BDH-40xx	55	10	27	22.4	12	M12 x 1.75P	20	80	62	20	28	12	3.3	1/4	64	29	11	17.5	11	12	20	M20 x 1.5P	30	ø10	11	16	25.5	28.5	ø40
BDH-50xx	60	10	29	28	13	M16 x 2.0P	25	94	74	20	29	14	3.8	1/4	74	31	14	20	13	13	20	M24 x 1.5P	35	ø12	13	20	29.5	32.5	ø50
BDH-63xx	67	13	31.5	35.5	15	M20 x 2.5P	33	114	90	20	31	16	4.3	1/4	89	42	16	23	16	15	20	M30 x 1.5P	45	ø16	17	25	35.5	38.5	ø63
BDH-80xx	78	17	33	45	20	M24 x 3.0P	33	142	114	30	32	20	4.9	3/8	109	52	18	26	18	20	20	M39 x 1.5P	60	ø18	20	32	42.5	45.5	ø80
BDH-100xx	88	20	42	56	23	M36 x 4.0P	40	164	134	46	40	20	5	3/8	133	65	20	31	20	23	26								ø100
BDH-125xx	102	25	43	65	25	M42 x 4.5P	45	196	164	52	40	20	5	1/2	163	80	21	31	22	23	26								ø125
BDH-150xx	105	25	43	70	26	M48 x 5.0P	50	236	198	52	50	20	5	1/2	198	95	26	36	26	30	30								ø150

块式夹紧器 水平双动型油路板型

Block Clamp Push/Pull Horizontal Gasket Type



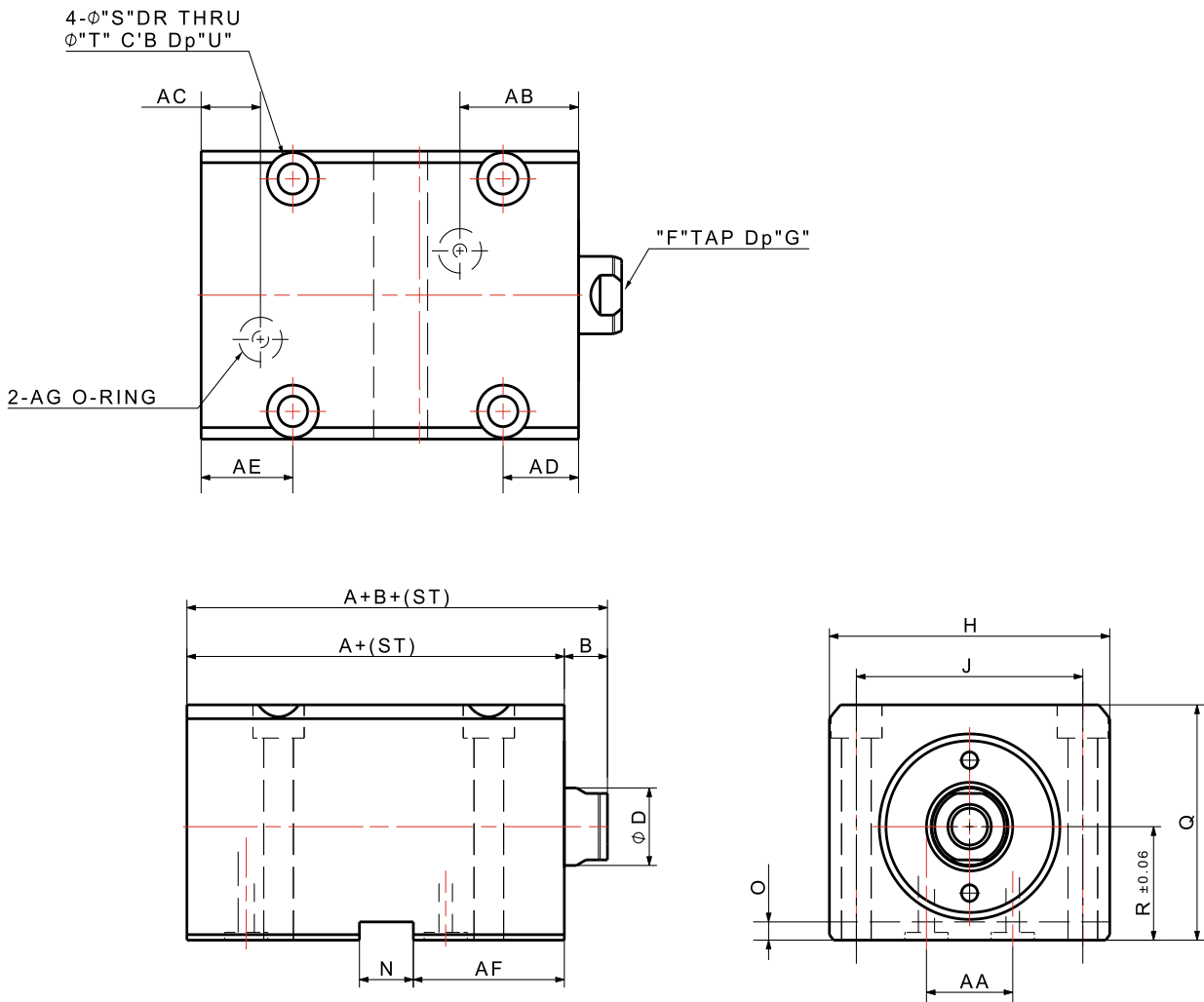
Features

- |                                      |   |
|--------------------------------------|---|
| 1. 复动式                               | 1. Double-acting                                  |
| 2. 油路板型                              | 2. Gasket Type Port                               |
| 3. 安装容易                              | 3. Easy installation                              |
| 4. 使用油压范围: 15~250kgf/cm <sup>2</sup> | 4. Operating Pressure : 15~250kgf/cm <sup>2</sup> |
| 5. 活塞速度: 8~100mm/s                   | 5. Piston Speed : 8~100mm/s                       |
| 6. 使用环境温度: 0~60°C                    | 6. Operating Temperature : 0~60°C                 |

\* 螺紋/針孔可得到。  
\* Threaded Rod and Pin Hole Rod Type are available.

> **BDH-20 10 G** **BDH-20 10 GC** **BDH-20 10 GP**  
① ② ③ ④ ① ② ③ ④ ① ② ③ ④

① Horizontal Type ② Piston Diameter(mm) ③ Stroke(mm)  
④ Gasket, Gasket + Threaded Rod, Gasket + Pin Hole Rod



Dimensions

MODEL NO.	DIMENSIONS (mm)																					
	A	B	øD	F	G	H	J	N	O	Q	R	øS	øT	U	AA	AB	AC	AD	AE	AF	AG	Piston dia.
BDH-20xxG	43	8	12	M8 x 1.25P	16	45	35	10	3.3	40	18	5.5	9.5	6	14	20.5	9	13	15	26	P5	ø20
BDH-25xxG	45	8	14	M8 x 1.25P	16	52	42	10	3.3	43	21	5.5	9.5	6	16	22	11	14	17	28	P5	ø25
BDH-28xxG	50	8	16	M8 x 1.25P	12	62	50	10	3.3	52	24	6.6	11	6.5	18	23	11	14	18	30	P6	ø28
BDH-32xxG	54	10	18	M10 x 1.5P	15	70	56	12	3.3	56	25	9	14	9	20	26	10	14	18	33	P7	ø32
BDH-40xxG	55	10	22.4	M12 x 1.75P	20	80	62	12	3.3	64	29	11	17.5	11	20	24	10	14	19	31	P7	ø40
BDH-50xxG	60	10	28	M16 x 2.0P	25	94	74	14	3.8	74	31	14	20	13	20	26	13	14	20	33	P7	ø50



块式夹紧器 水平双头杆型

Block Clamp Push/Pull Double Rod Horizontal Type

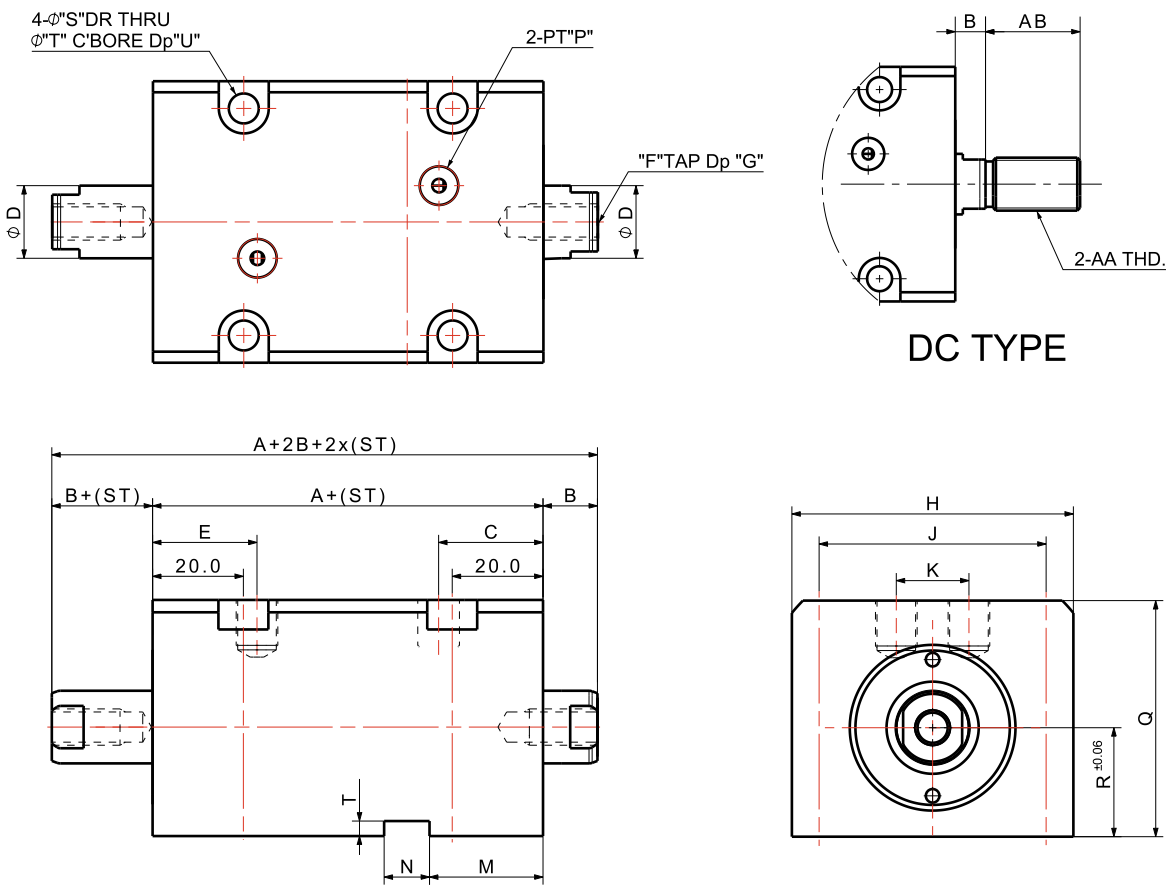


特性

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. 双头杆型</li> <li>2. 各种大小尺寸</li> <li>3. 复动式</li> <li>4. 使用油压范围: 15~250kgf/cm<sup>2</sup></li> <li>5. 活塞速度: 8~100mm/s</li> <li>6. 使用环境温度: 0~60°C</li> </ul> | <p><b>Features</b></p> <ul style="list-style-type: none"> <li>1. Double rods type</li> <li>2. Various sizes</li> <li>3. Double-acting</li> <li>4. Operating Pressure : 15~250kgf/cm<sup>2</sup></li> <li>5. Piston Speed : 8~100mm/s</li> <li>6. Operating Temperature : 0~60°C</li> </ul> |
|--|--|

> BDH - 28 15 D    BDH - 28 15 DC  
 ① ② ③ ④            ① ② ③ ④

① Horizontal Type    ② Piston Diameter(mm)    ③ Stroke(mm)  
 ④ Double Rod Type, Double + Threaded Rod



Dimensions

MODEL NO.	DIMENSIONS (mm)																					
	A	B	C	φD	E	F	G	H	J	K	M	N	O	P	Q	R	φS	φT	U	AA	AB	Piston dia.
BDH-28xxD	61	8	23	16	23	M8 x 1.25P	12	62	50	16	25	10	3.3	1/8	52	24	6.6	11	6.5	M14 x 1.5P	25	φ28
BDH-32xxD	68	10	26	18	26	M10 x 1.5P	15	70	56	20	28	12	3.3	1/4	56	25	9	14	9	M16 x 1.5P	25	φ32
BDH-40xxD	70	10	27	22.4	27	M12 x 1.75P	20	80	62	20	28	12	3.3	1/4	64	29	11	17.5	11	M20 x 1.5P	30	φ40
BDH-50xxD	75	10	29	28	29	M16 x 2.0P	25	94	74	20	29	14	3.8	1/4	74	31	14	20	13	M24 x 1.5P	35	φ50
BDH-63xxD	82	13	31.5	35.5	31.5	M20 x 2.5P	33	114	90	20	31	16	4.3	1/4	89	42	16	23	16	M30 x 1.5P	45	φ63
BDH-80xxD	92	17	33	45	33	M24 x 3.0P	33	142	114	30	32	20	4.9	3/8	109	52	18	26	18	M39 x 1.5P	60	φ80

块式夹紧器 水平单动型  
Block Clamp Push Horizontal Type



特性

1. 单动式
2. 弹簧复位
3. 安装容易
4. 使用油压范围：15~250kgf/cm<sup>2</sup>
5. 活塞速度：8~100mm/s
6. 使用环境温度：0~60°C
7. 油路尽量要大。

Features

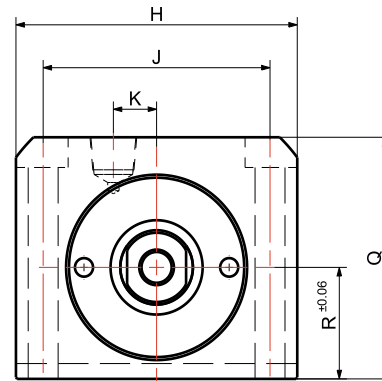
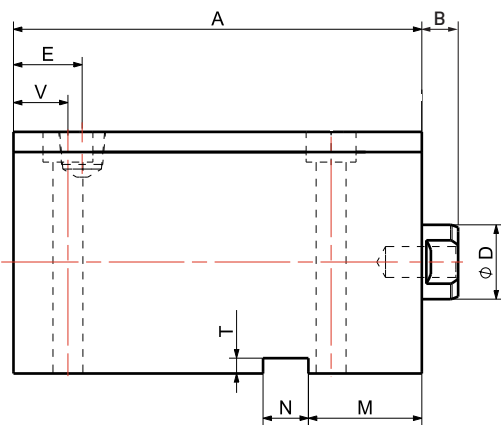
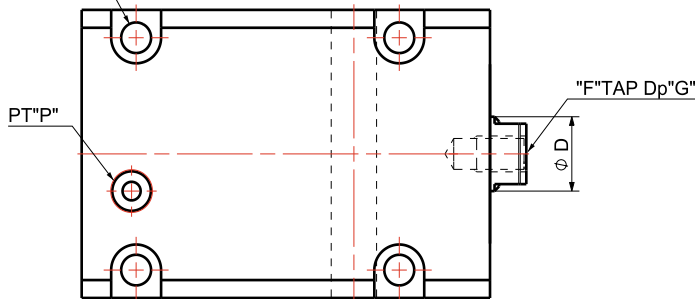
1. Single-acting
2. Spring return method
3. Easy installation
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C
7. Make piping size as big as possible

> BPH - 28 15

① ② ③

①水平型 ②内径(mm) ③行程(mm)

4-φ"S"DR THRU  
φ"T" C'BORE Dp"U"



Dimensions 尺寸

MODEL NO.	DIMENSIONS (mm)																			
	A	B	φD	E	F	G	H	J	K	M	N	O	P	Q	R	φS	φT	U	V	Piston dia.
BPH-28xx	ST15	ST25	8	11	M8 x P1.25	12	62	50	8	25	10	3.3	1/8	52	24	φ6.6	φ11	6.5	12	φ28
BPH-32xx	72	90	10	12.5	M10 x P1.5	15	70	56	10	28	12	3.3	1/8	56	25	φ9	φ14	8.6	10	φ32
BPH-40xx	73	93	10	12	M12 x P1.75	20	80	62	10	28	12	3.3	1/8	64	29	φ11	φ17.5	11	12	φ40
BPH-50xx	78	98	10	13	M16 x P2.0	25	94	74	10	29	14	3.8	1/4	74	34	φ14	φ20	13	13	φ50
BPH-63xx	86	106	13	15	M20 x P2.5	33	114	90	10	31	16	4.3	1/4	89	42	φ16	φ23	16	15	φ63

## Built-In Clamp Introduction 内置式夹紧器介绍

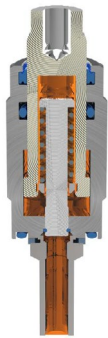
内置式夹紧器是将尺寸最小限度缩小的产品，单作用并本体是外螺纹。非常适合定位缸使用，夹紧器安装环境非常恶劣时使用也很好。

Built-In clamp is a product that has minimized its sizes.

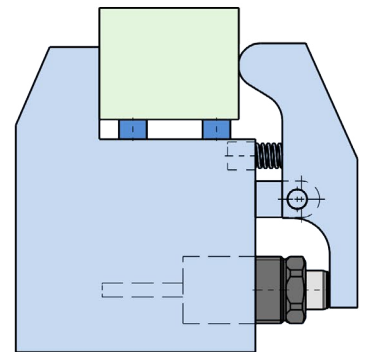
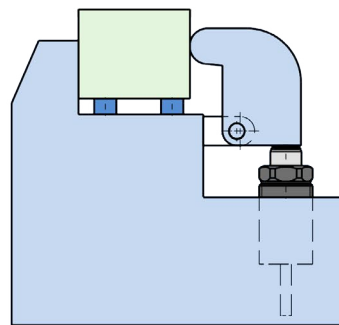
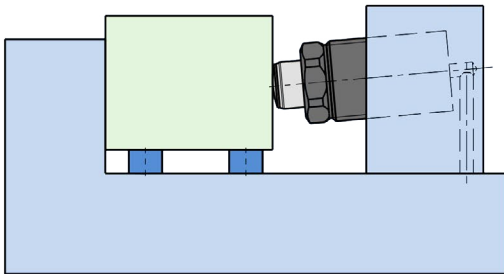
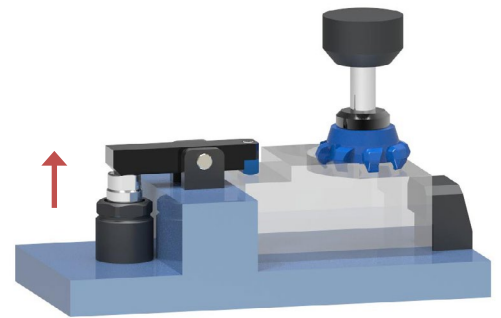
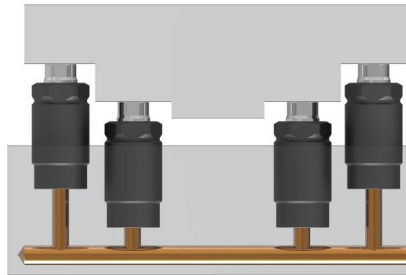
It works with single-acting with a screw on the body.

Built-in clamp can be used as a location cylinder or when clamp installation environment is extremely poor.

Structure 结构体



Application 应用



Various Sizes



## Model No. 型号

**MTB-1105R**


**1** Clamp Type 夹紧类型  
MTB = Built-In Clamp

**2** Piston Diameter 内径  
ex) 11 =  $\phi 11$

**3** Piston Rod Stroke 主杆行程  
ex) 05 = 5mm

**4** Rod Shape 主杆形状  
R = Round  
No Sign = Standard

## Specification 规格

型号	类型	重量 (kg)	最大夹紧力 (kgf)	油缸容量 (cm <sup>3</sup> )	油缸面积 (cm <sup>2</sup> )	行程 (mm)	内径 (mm)	使用油压范围	使用环境温度
MTB-1105□	R	0.03	240	0.47	0.95	5	$\phi 11$	15~250 kgf/cm <sup>2</sup>	0~60°C
MTB-1210□	No Sign	0.11	280	1.13	1.13	10	$\phi 12$		
	R	0.11							
MTB-1412□	No Sign	0.13	380	1.85	1.54	12	$\phi 14$		
	R	0.13							
MTB-1814□	No Sign	0.22	640	3.56	2.54	14	$\phi 18$		
	R	0.21							
MTB-2215□	No Sign	0.38	950	5.70	3.80	15	$\phi 22$		
	R	0.36							
MTB-3020□	No Sign	0.78	1,770	14.13	7.07	20	$\phi 30$		
	R	0.76							
MTB-3625□	No Sign	1.27	2,540	25.43	10.17	25	$\phi 36$		
	R	1.22							
MTB-4525□	No Sign	1.87	3,970	39.74	15.90	25	$\phi 45$		
	R	1.78							

内置式夹紧器

Built-In Clamp Round Rod Type



特性

1. 与内径相比活塞杆的外径非常粗, 因此使用时非常坚实。
2. 与行程相比全长短, 因此可以在狭窄的空间里安装。
3. 同款产品可以安装很近, 单作用弹簧复位。
4. 油路板式安装, 可以较容易摆脱配管负担。
5. 使用油压范围: 15~250kgf/cm<sup>2</sup>
6. 使用环境温度: 0~60°C
7. 油路尽量要大。

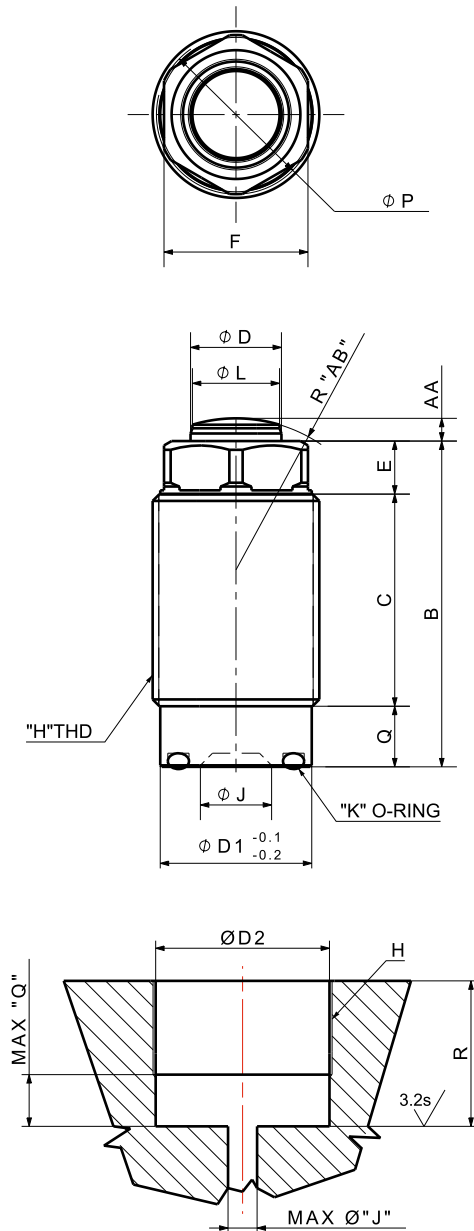
Features

1. The outer diameter of the piston rod is very thick compared to the inner diameter. Therefore, it can be used stably.
2. The total length is shorter compared to stroke and can be installed in a crawlspace.
3. The cylinders can be installed closest to each other and return to the spring.
4. You can be ease of piping burden if installed in the manifold method.
5. Operating Pressure : 15~250kgf/cm<sup>2</sup>
6. Operating Temperature : 0~60°C
7. Make piping size as big as possible.

> MTB - 11 05 R

① ② ③

① Piston diameter(mm) ② Total stroke(mm) ③ Round Rod



MOUNTING AREA

Dimensions

MODEL NO.	MTB-1105R	MTB-1210R	MTB-1412R	MTB-1814R	MTB-2215R	MTB-3020R	MTB-3625R	MTB-4525R
B	27	43	44	46	54.5	72	75.5	78
C	19	28	26	27	35.5	47	48.5	48
$\phi D$	6	12	14	18	22.4	30	35.5	45
$\phi D1$	14	20	22	28	34.3	43.3	52.6	62.6
$\phi D2$	14.5	20.5	22.5	28.5	34.5	43.5	53	63
E	4	7	8	9	11	15	15	17
F	12	19	22	27	32	41	50	60
H	M16 x 1.5P	M22 x 1.5P	M24 x 1.5P	M30 x 1.5P	M36 x 1.5P	M45 x 1.5P	M55 x 2.0P	M65 x 2.0P
J	10	11	12	15	18	24	30	40
K	P10A	P14	P16	P22	AS568-121	P32	P40	P50
L	-	11.5	13	17	22.4	28	35.5	45
O	-	5.5	5.5	7	9.5	9.5	11	13
P	-	21	24	29	35.5	45	55	66
Q	4	8	10	10	8	10	12	13
R	8~23	16~36	20~36	20~37	16~43	20~57	24~60	26~61
AA	1	3	3	3.5	4	5	6	7
AB	R12	R20	R25	R32	R40	R60	R60	R70



## 内置式夹紧器 Built-In Clamp

### 特性

1. 与内径相比活塞杆的外径非常粗，因此使用时非常坚实。
2. 与行程相比全长短，因此可以在狭窄的空间里安装。
3. 同款产品可以安装很近，单作用弹簧复位。
4. 油路板式安装，可以较容易摆脱配管负担。
5. 使用油压范围：15~250kgf/cm<sup>2</sup>
6. 使用环境温度：0~60°C
7. 油路尽量要大。

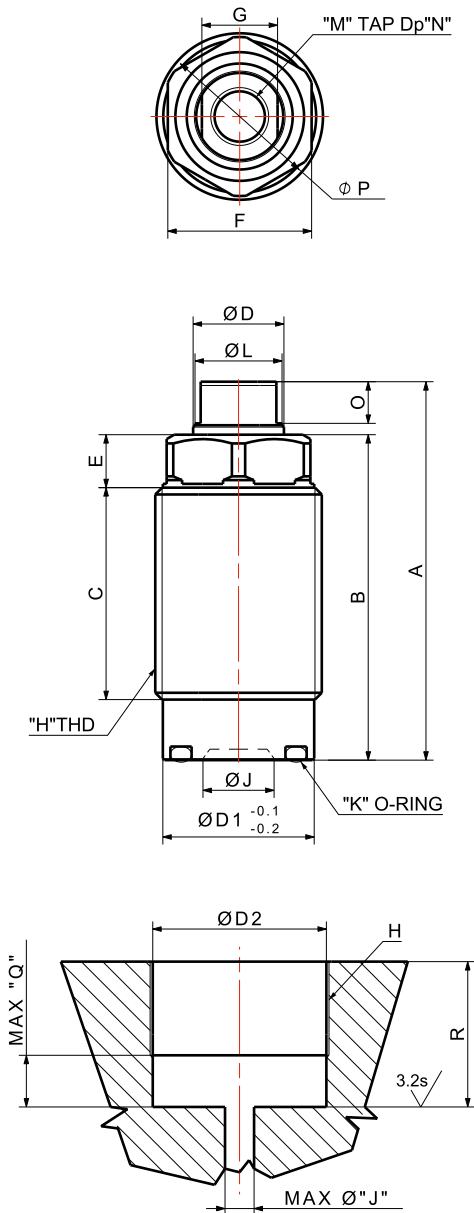
### Features

1. The outer diameter of the piston rod is very thick compared to the inner diameter. Therefore, it can be used stably.
2. The total length is shorter compared to stroke and can be installed in a crawlspace.
3. The cylinders can be installed closest to each other and return to the spring.
4. You can be ease of piping burden if installed in the manifold method.
5. Operating Pressure : 15-250kgf/cm<sup>2</sup>
6. Operating Temperature : 0-60°C
7. Make piping size as big as possible.

### > MTB - 11 05

① ②

① 内径 (mm) ② 全行程 (mm)



### Dimensions 尺寸

MODEL NO.	MTB-1105	MTB-1210	MTB-1412	MTB-1814	MTB-2215	MTB-3020	MTB-3625	MTB-4525
A	28	50	52	55	66.5	84	88.5	94
B	27	43	44	46	54.5	72	75.5	78
C	19	28	26	27	35.5	47	48.5	48
$\phi D$	6	12	14	18	22.4	30	35.5	45
$\phi D1$	14	20	22	28	34.3	43.3	52.6	62.6
$\phi D2$	14.5	20.5	22.5	28.5	34.5	43.5	53	63
E	4	7	8	9	11	15	15	17
F	12	19	22	27	32	41	50	60
G	-	10	12	16	19	24	30	36
H	M16x1.5P	M22x1.5P	M24x1.5P	M30x1.5P	M36x1.5P	M45x1.5P	M55x2.0P	M65x2.0P
J	10	11	12	15	18	24	30	40
K	T3P10A	P14	P16	P22	AS568-121	P32	P40	P50
L	-	11.5	13	17	22.4	28	35.5	45
M	-	M8	M8	M8	M8	M10	M12	M16
N	-	8	8	8	10	11	12	16
O	-	5.5	5.5	7	9.5	9.5	11	13
P	-	21	24	29	35.5	45	55	66
Q	4	8	10	10	8	10	12	13
R	8-23	16-36	20-36	20-37	16-43	20-57	24-60	26-61

### MOUNTING AREA 安装区

## Flange Clamp Introduction 法兰盘式夹紧器介绍

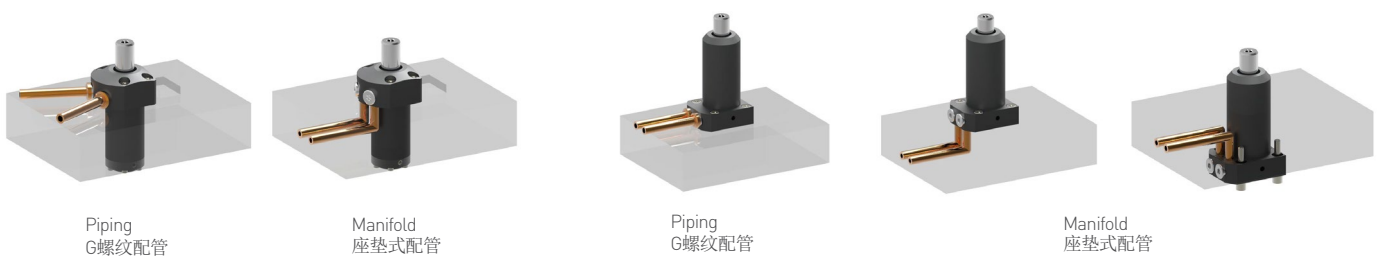
法兰盘夹紧器安装容易，活塞杆直线运动，可以配管或油路板集中供油，应用性高。同时，可以简便安装流量控制阀。

Flange clamp is easy to install and the piston rod moves in a straight line. It has high applicability as the piping can be varied in a pipe or a manifold method.

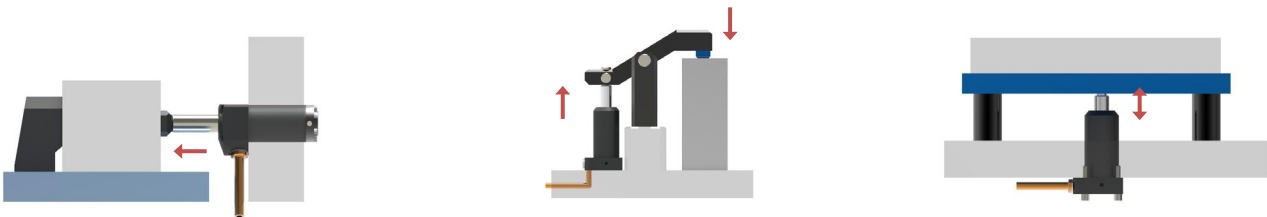
Flow control valve can also be installed easily.

### Top Type 上部凸缘

### Bottom Type 下部凸缘



### Application 应用

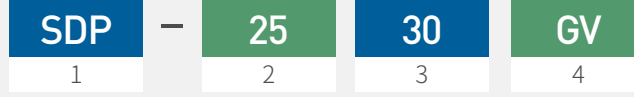


### Rod Shape 主杆形状



Model No. 型号

**SDP-2530GV**



- 1** Clamp Type 夹紧类型  
SDP = Flange Clamp
- 2** Piston Diameter 内径  
ex) 25 = ø25
- 3** Piston Rod Stroke 主杆行程  
ex) 30 = 30mm
- 4** Type 类型  
 No Sign = Top  
 P = Top, Pin Hole Rod  
 G = Top, Gasket  
 GP = Top, Gasket + Pin Hole Rod  
 GV = Top, Gasket + Flow Control Valve  
 GPV = Top, Gasket + Pin Hole Rod + Flow Control Valve  
 F = Bottom  
 FP = Bottom, Pin Hole Rod  
 FG = Bottom, Gasket  
 FGP = Bottom, Gasket + Pin Hole Rod  
 FGV = Bottom, Gasket + Flow Control Valve  
 FGVP = Bottom, Gasket + Pin Hole Rod + Flow Control Valve  
 FGT = Bottom, Gasket Top  
 FGVT = Bottom, Gasket Top + Flow Control Valve  
 FGVPVT = Bottom, Gasket Top + Pin Hole Rod + Flow Control Valve

Specification 规格

Top Type 上部凸缘

MODEL NO.		SDP-2530□			SDP-3037□			SDP-4055□			SDP-5577□		
Type		No Sign	G	GV	No Sign	G	GV	No Sign	G	GV	No Sign	G	GV
		P	GP	GPV	P	GP	GPV	P	GP	GPV	P	GP	GPV
Weight (kg)		1.06	0.99	1.00	1.86	1.80	1.81	3.27	3.14	3.15	6.74	6.36	6.38
		1.05	0.98	0.99	1.85	1.78	1.79	3.25	3.11	3.12	6.72	6.35	6.37
Max. Clamping Force(kgf)	Push	1,230			1,770			3,140			5,940		
	Pull	590			780			1,600			3,530		
Effective Area (cm <sup>2</sup> )	Push	4.91			7.07			12.56			23.75		
	Pull	2.36			3.13			6.41			14.13		
Oil Capacity (cm <sup>3</sup> )	Push	14.72			26.14			69.08			182.84		
	Pull	7.09			11.57			35.23			108.80		
Piston Diameter (mm)		ø25			ø30			ø40			ø55		
Operating Pressure Range		15-250 kgf/cm <sup>2</sup>											
Operating Temperature Range		0-60°C											

Bottom Type 下部凸缘

MODEL NO.		SDP-2530□					SDP-3037□					SDP-4055□					SDP-5577□				
Type		F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT	F	FG	FGV	FGT	FGVT
		FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT	FP	FGP	FGPV	FGPT	FGPVT
Weight (kg)		1.23	1.24	1.25	1.24	1.25	2.22	2.25	2.26	2.24	2.25	3.96	3.99	4.01	3.98	3.99	8.24	8.29	8.31	8.29	8.31
		1.22	1.23	1.24	1.23	1.24	2.20	2.23	2.24	2.23	2.24	3.94	3.98	3.99	3.98	3.99	8.23	8.28	8.30	8.28	8.30
Max. Clamping Force(kgf)	Push	1,230					1,770					3,140					5,940				
	Pull	590					780					1,600					3,530				
Effective Area (cm <sup>2</sup> )	Push	4.91					7.07					12.56					23.75				
	Pull	2.36					3.13					6.41					14.13				
Oil Capacity (cm <sup>3</sup> )	Push	14.72					26.14					69.08					182.84				
	Pull	7.09					11.57					35.23					108.80				
Piston Diameter (mm)		ø25					ø30					ø40					ø55				
Operating Pressure Range		15-250 kgf/cm <sup>2</sup>																			
Operating Temperature Range		0-60°C																			



上部凸缘法兰盘式夹紧器 标准型, G/GV/P/GP/GPV型

Flange Clamp Top, Standard/G/GV/P/GP/GPV Type



特性

1. 活塞杆直线运作。
2. 使用油压范围: 15~250kgf/cm<sup>2</sup>
3. 使用环境温度: 0~60°C

Features

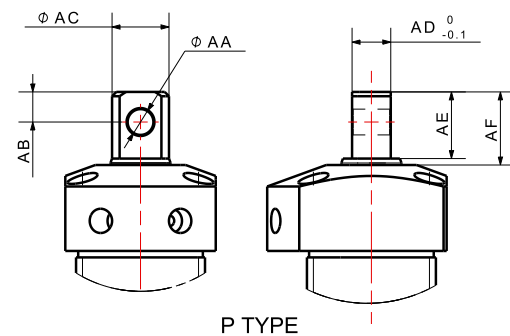
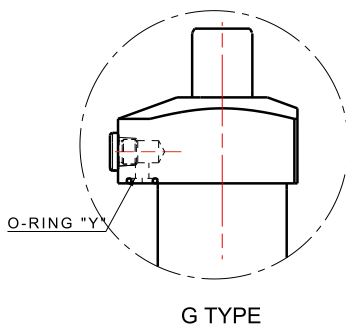
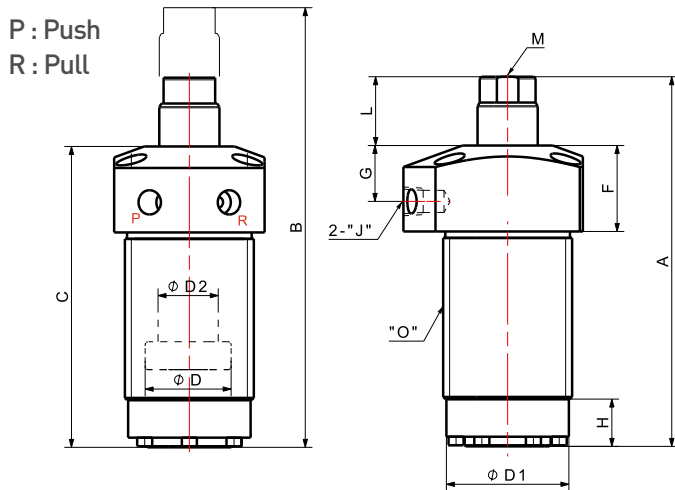
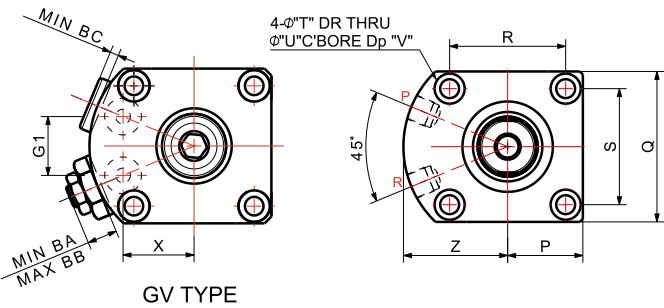
1. Piston rod moves in linear.
2. Operating Pressure : 15~250kgf/cm<sup>2</sup>
3. Operating Temperature : 0~60°C

- > SDP - 25 30
- SDP - 25 30 G
- SDP - 25 30 GV
- SDP - 25 30 P
- SDP - 25 30 GP
- SDP - 25 30 GPV
- ① ② ③ ④

- ① Double acting(Linear move)
- ② Piston Diameter(mm)
- ③ Total Stroke(mm)
- ④ No sign = Standard
- G = Gasket
- GV = Gasket + Side Valve
- P = Pin Hole Rod
- GP = Gasket + Pin Hole Rod
- GPV = Gasket Pin Hole Rod + Side Valve

Dimensions

MODEL NO.	SDP-2530□	SDP-3037□	SDP-4055□	SDP-5577□
A	126	153	172	219
B	156	190	227	296
C	99	123	140	182
∅D	25	30	40	55
∅D1	37	45.5	57	76
∅D2	18	22.4	28	35
F	30	35	40	45
G	21	22	26	30
G1	20	23	31	35
H	12	25	22	22
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
L	27	30	32	37
M	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
O	M40 x 1.5P	M48 x 1.5P	M60 x 1.5P	M80 x 2.0P
P	19	27	35	44.5
Q	55	54	70	89
R	25	42	54	70
S	42	42	54	70
T	6.5	6.5	9	11
U	11	11	14	17
V	15	15	20	25
X	23	25.5	35	43
Y	P6	P6	P6	P10
Z	32	36.5	48.5	59
BA	7.1	7.2	7.2	5.7
BB	13.7	16.8	16.8	15.3
BC	3.9	3.3	3.3	1.8
AA	∅8.0	∅10.0	∅12.0	∅16.0
AB	10	12	13	17
AC	∅17.0	∅21.0	∅26.5	∅33.0
AD	12	14	18	22
AE	22.5	26	30	37
AF	27	30	34	41



下部凸缘法兰盘式夹紧器 F/FG/FGV/FGT/...FGPVT型

Flange Clamp Bottom, F/FG/FGV/FGT/FGVT/FP/FGP/FGPV/FGPT/FGPVT Type



特性

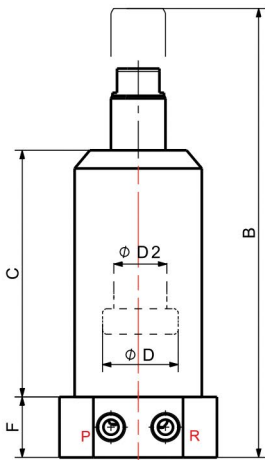
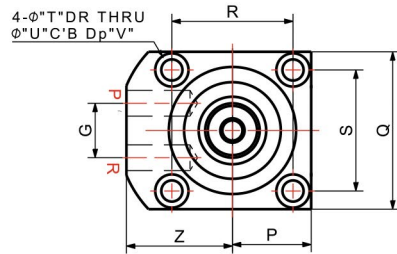
1. 下部凸缘型
2. 使用油压范围: 15~250kgf/cm<sup>2</sup>
3. 使用环境温度: 0~60°C

Features

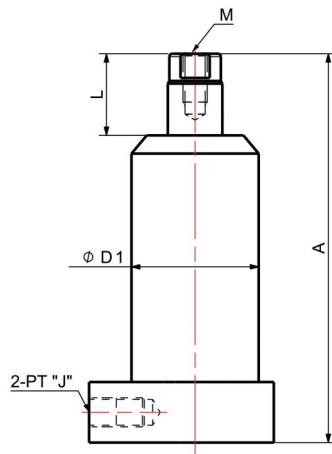
1. Bottom flange circuit
2. Operating Pressure : 15~250kgf/cm<sup>2</sup>
3. Operating Temperature : 0~60°C

- > SDP - 25 30 F
- SDP - 25 30 FG
- SDP - 25 30 FGV
- SDP - 25 30 FGT
- SDP - 25 30 FGVT
- SDP - 25 30 FP
- SDP - 25 30 FGP
- SDP - 25 30 FGPV
- SDP - 25 30 FGPT
- SDP - 25 30 FGPVT
- ① ② ③ ④

- ① Double acting(Linear move)
- ② Piston Diameter(mm)
- ③ Total Stroke(mm)
- ④ F = Bottom Flange,
- FG = Gasket
- FGV = Gasket + Side Valve
- FGT = Gasket Top
- FGVT = Gasket Top + Side Valve
- FP = Pin Hole Rod
- FGP = Gasket + Pin Hole Rod
- FGPV = Gasket + Pin Hole Rod + Side Valve
- FGPT = Gasket Top + Pin Hole Rod
- FGPVT = Gasket Top + Pin Hole Rod + Side Valve



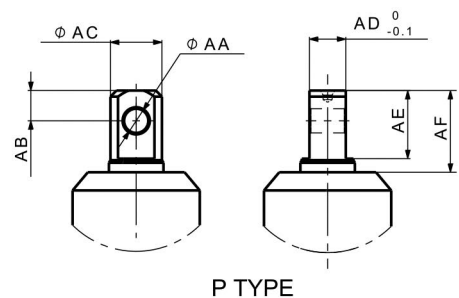
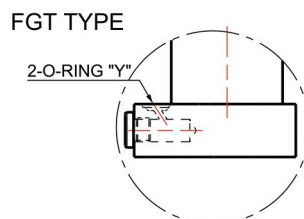
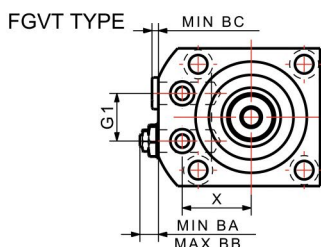
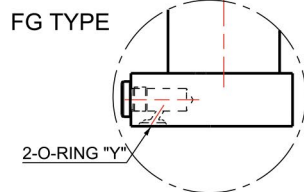
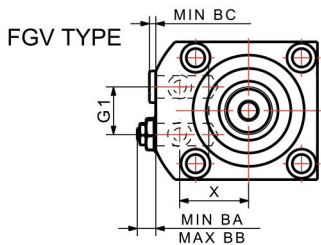
P : Push R : Pull



Dimensions

MODEL NO.	SDP-2530F□	SDP-3037F□	SDP-4055F□	SDP-5577F□
A	128.5	153	172	219
B	158.5	190	227	296
C	99	123	140	182
φD	25	30	40	55
φD1	42	52	65	65
φD2	18	22.4	28	35
F	20	25	28	30
G1	18	20	24	30
H	12	25	22	22
J	PT 1/8	PT 1/4	PT 1/4	PT 3/8
L	27	30	32	37
M	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M16 x 2.0P
P	26	30	40	48.5
Q	52	60	80	97
R	40	46	64	76
S	40	46	64	76
T	7	7	9	11
U	11	11	14	17
V	7	15	9	11
X	26	31	38	47
Y	P6	P6	P6	P7
Z	35	40	50	59
BA	7.1	7.2	7.2	5.7
BB	13.7	16.8	16.8	15.3
BC	3.9	3.3	3.3	1.8
AA	φ8.0	φ10.0	φ12.0	φ16.0
AB	10	12	13	17
AC	φ17.0	φ21.0	φ26.5	φ33.0
AD	12	14	18	22
AE	22.5	26	30	37
AF	27	30	34	41

DIMENSIONS (mm)

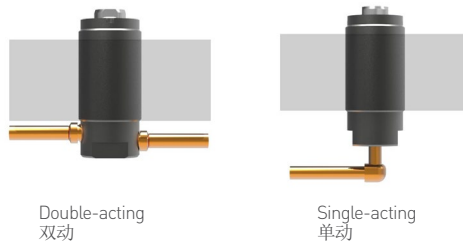


## Threaded Body Clamp Introduction 螺纹式夹紧器介绍

机体上有螺纹，因此定位容易。螺纹式封口，因此密封件容易更换。内径从 $\phi 13$ 到 $\phi 63$ 有八种。

Threaded body clamp has screws processed on the body for easy positioning. The cover is assembled in screw type to facilitate seal exchange. This ensures easy cylinder maintenance. There are seven available piston diameters from  $\phi 13$  to  $\phi 63$ .

### Mounting Method 安装方法



### Application 应用



#### 考虑事项 Note

工作行程应控制在标准行程80%以内使用。如果载物重且复位速度要求高并稳速时选择复动式，如果要求配管容易，就选择单动式。

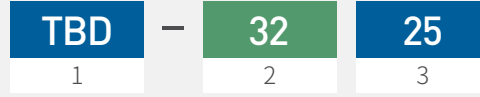
The stroke should be preferably used within 80% of the standard cylinder stroke.  
If the rod fitting is heavy and fast & constant return speed is required, choose double-acting. If easy piping is required, choose single-acting.

#### 使用单动缸时注意事项 Caution for operating single-acting cylinder

单动缸内有弹簧，杆上固定载物时，用扳手等抓住导杆并固定。不然的话，弹簧或螺丝会破损，无法使用产品。不遵守上述事项而发生损伤时，不负责A/S。

There is a tension spring inside the single-acting cylinder, so be sure to hold the rod with a spanner when fastening the fitting to the rod. Otherwise, the product may be unusable due to spring or bolt damage. We are not responsible for product damage caused by failure to comply with the instructions aforementioned.

## Model No. 型号

**TBD-3225**

**1**

## Clamp Type 夹紧类型

 TBD = Threaded Body Clamp (Double-acting) 螺纹式夹紧器(双动)  
 TBP = Threaded Body Clamp (Single-acting) 螺纹式夹紧器(单动)

**2**

## Piston Diameter 内径

 ex) 32 =  $\phi 32$ 
**3**

## Piston Rod Stroke 主杆行程

ex) 25 = 25mm

## Specification 规格

## Push/Pull Type

MODEL NO.	Weight (kg)	Max. Clamping Force(kgf)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Stroke (mm)	Piston Diameter (mm)	Operating Pressure Range	Operating Temperature Range
TBD-3225	1.2	1,800	7.2	18.1	25	$\phi 32$	15~250 kgf/cm <sup>2</sup>	0~60°C
TBD-3250	1.4			36.3	50			
TBD-4025	2.1	2,920	11.7	29.5	25	$\phi 40$		
TBD-4050	2.6			58.9	50			
TBD-5025	3.0	4,620	18.5	47.1	25	$\phi 50$		
TBD-5050	3.6			94.2	50			
TBD-6325	4.1	7,570	30.3	76.0	25	$\phi 63$		
TBD-6350	4.8			152.0	50			

## Push Type

MODEL NO.	Weight (kg)	Max. Clamping Force(kgf)	Effective Area (cm <sup>2</sup> )	Oil Capacity Push (cm <sup>3</sup> )	Stroke (mm)	Piston Diameter (mm)	Operating Pressure Range	Operating Temperature Range
TBP-1308	0.11	320	1.30	1.0	8	$\phi 13$	15~250 kgf/cm <sup>2</sup>	0~60°C
TBP-2015	0.23	780	3.14	4.7	15	$\phi 20$		
TBP-2615	0.34	1,320	5.3	8.0	15	$\phi 26$		



螺纹式夹紧器 单动型

Threaded Body Clamp Push Type



特性

1. 利用缸体的螺纹, 安装非常容易。
2. 内置抗张弹簧的缸筒随意转动的话, 通常成为发生故障的原因。
3. 制作多种大小的产品
4. 内部安装有弹簧, 安装载物时, 必须将活塞杆用工具固定。
5. 使用油压范围: 15~250kgf/cm<sup>2</sup>
6. 活塞速度: 8~100mm/s
7. 使用环境温度: 0~60°C
8. 油路尽量要大。

Features

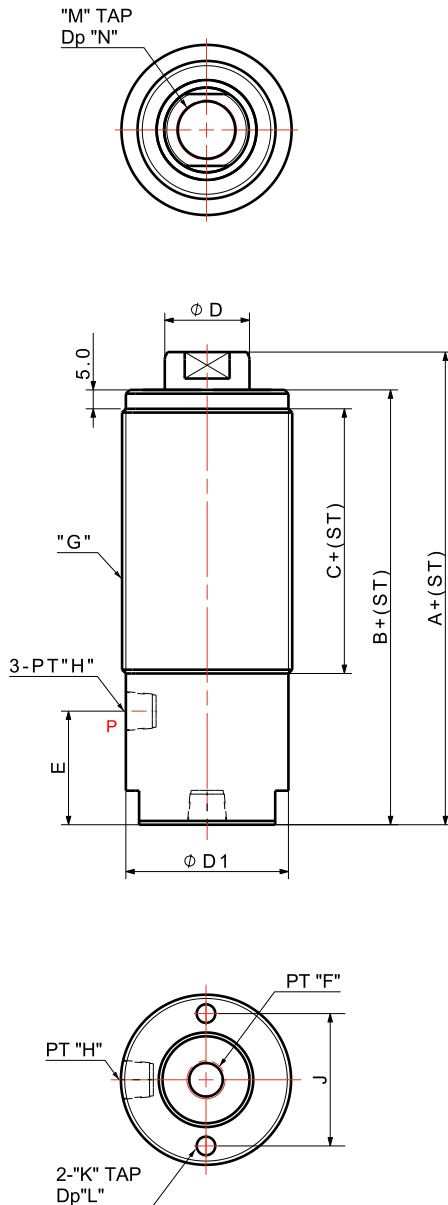
1. Easy installation with threaded body.
2. Excessive operation of the product's tension-spring-containing piston is a common cause of malfunction.
3. Products are manufactured in various sizes.
4. The piston rod must be fixed with the tool when assembling the fitting due to tension spring inside.
5. Operating Pressure : 15~250kgf/cm<sup>2</sup>
6. Piston Speed : 8~100mm/s
7. Operating Temperature : 0~60°C
8. Make piping size as big as possible

Mounting Accessory(Page 100) :  
 MBS2112, MBS4518, MBR2110,  
 MBR4510, MBS2812, MBS6125,  
 MBR2810, MBR6111, MBS3212,  
 MBS7025, MBR3210, MBR7012,  
 MBS3815, MBS8025, MBR3810,  
 MBR8015

> TBP - 32 25

① ② ③

①单动 ②内径(mm) ③全行程(mm)



Dimensions 尺寸

MODEL NO.	TBP-1308	TBP-2015	TBP-2615	TBP-28xx	TBP-32xx	TBP-40xx	TBP-50xx	TBP-63xx
A	54.5	47	59	85	100	100	105	112
B	46	42	54	80	90	90	90	97
C	36	32	31	35	40	52	49	45
$\phi D$	7	12	16	22	22.4	30	40	50
$\phi D1$	18	26	30	36	43	57	67	77
E	-	-	12	18	22	19	22	25
F	1/8	1/8	1/8	-	-	-	-	-
G	M20x1.5P	M28x1.5P	M32x1.5P	M38x1.5P	M45x1.5P	M60x2.0P	M70x2.0P	M80x2.0P
H	-	-	1/8	3/8	3/8	3/8	3/8	3/8
J	-	-	-	25	35	40	48	58
K	-	-	-	M6x1.0P	M6x1.0P	M8x1.25P	M10x1.5P	M12x1.75P
L	-	-	-	12	15	15	15	20
M	-	M8x1.25P	M10x1.5P	M16x2.0P	M16x2.0P	M20x2.5P	M24x3.0P	M30x3.5P
N	-	12	17	16	15	20	22	25
Piston Dia.	$\phi 13$	$\phi 20$	$\phi 26$	$\phi 28$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$

## 空心式夹器器 Hollow Clamp



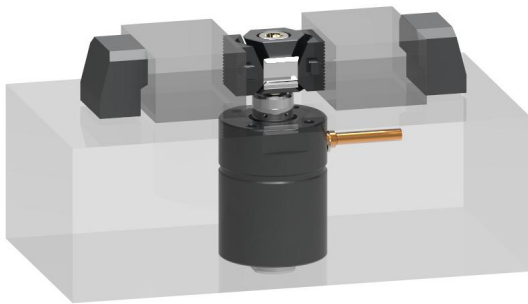
### 特性

1. 单动式。
2. 主杆孔贯通, 端部有内螺纹, 可以利用螺丝等。
3. 根据安装工位, 可以用于拉开或推开的功能。
4. 使用油压范围: 15~250kgf/cm<sup>2</sup>
5. 活塞速度: 8~100mm/s
6. 使用环境温度: 0~60°C
7. 油路尽量要大。

### Features

1. Pull type.
2. There is a hole through the rod so bolts can be used, as there is a female screw at the end.
3. Depending on the mounting position, it can be used for pushing or pulling.
4. Operating Pressure : 15~250kgf/cm<sup>2</sup>
5. Piston Speed : 8~100mm/s
6. Operating Temperature : 0~60°C
7. Make piping size as big as possible.

### Application 应用



### > HLP - 28 08

① ②

① 内径 (mm) ② 全行程 (mm)

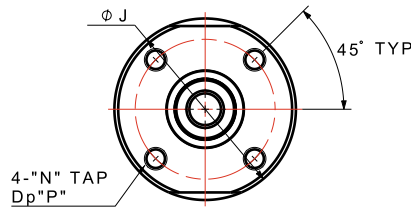
Mounting Accessory (Page 100):  
MBS4820, MBS4811, MBS6525,  
MBR6512, MBS9025, MBR9016

### Specification 规格

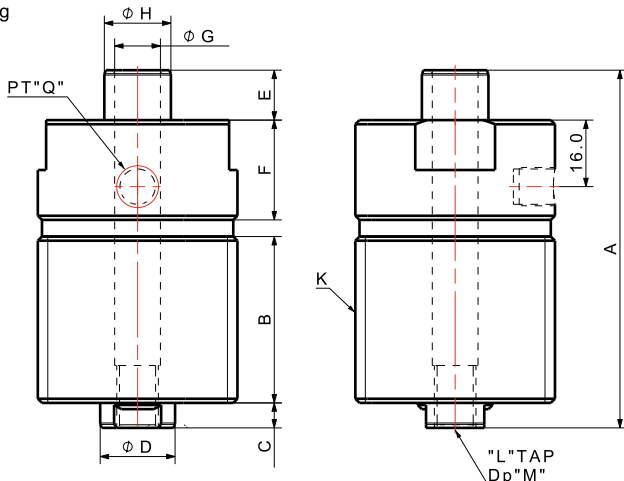
型号	最大夹紧力 (Ton)	油缸容量 (cm <sup>3</sup> )	油缸面积 (cm <sup>2</sup> )	行程 (mm)	内径 (mm)	重量 (kg)
HLP-2808	1.0	3.31	4.14	8	∅28	0.85
HLP-4012	1.9	9.18	7.65	12	∅40	1.91
HLP-6320	5.3	43.08	21.54	20	∅63	4.28

### Dimensions 尺寸

MODEL NO.	HLP-2808	HLP-4012	HLP-6320	
DIMENSIONS (mm)	A	86	109	140
	B	40	53	70
	C	6	9	10
	∅D	18	28	40
	E	12	15	23
	F	25	29	34
	∅G	11	17	21
	∅H	16	25	35
	∅J	37	65	70
	K	M48x1.5P	M65x2.0P	M90x2.0P
	L	M10x1.5P	M12x1.75P	M24x3.0P
	M	15	20	32
	N	M6x1.0P	M8x1.25P	M12x1.75P
	P	10	16	18
Q	1/8	1/4	3/8	



Operating direction



## 边缘式夹紧器 Edge Clamp

### 特性

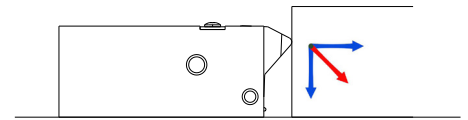
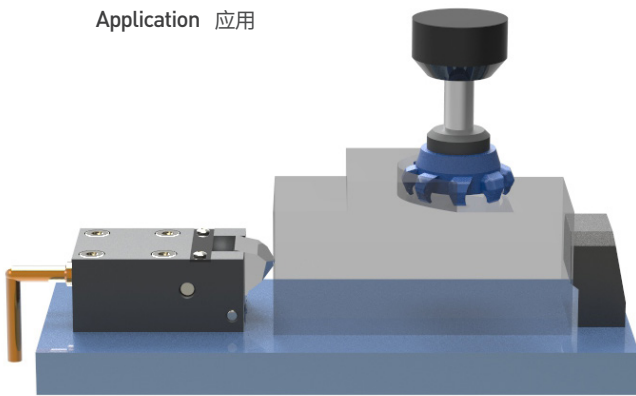
- |   |  |
|---|--|
| 1. 铣刀(face cutter)加工工作物上面时, 可以没有任何干扰的通过夹紧工作物的侧面对工件上下固定用力。 | 1. When processing the upper surface of the workpiece with a face cutter, you can clamp the side of the workpiece with the edge clamp without tool interference. |
| 2. 产品尺寸小巧。  | 2. Compact size  |
| 3. 单作用。   | 3. Single-acting   |
| 4. 垂直夹紧力约水平夹紧力的三分之一。                                      | 4. The vertical clamping force is approximately 1/3 of the horizontal force.   |
| 5. 使用油压范围: 15~250kgf/cm <sup>2</sup>                      | 5. Operating Pressure : 15~250kgf/cm <sup>2</sup>  |
| 6. 使用环境温度: 0~60°C   | 6. Operating Temperature : 0~60°C  |

> EDG - 25 10  
① ②

① 内径 (mm)    ② 全行程 (mm)

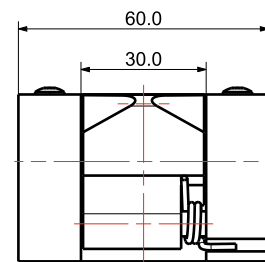
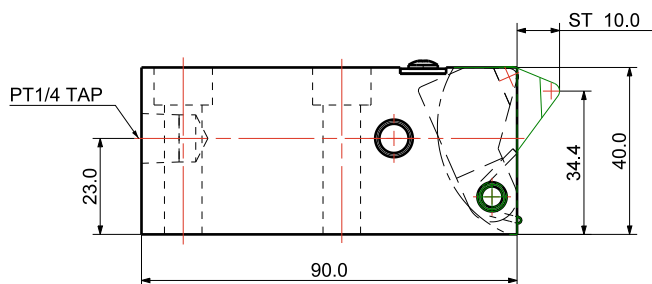
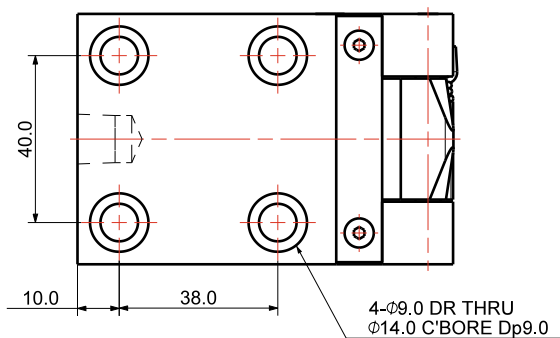


### Application 应用



### Specification 规格

型号	最大夹紧力 (Ton)	油缸容量 (cm <sup>3</sup> )	油缸面积 (cm <sup>2</sup> )	行程 (mm)	内径 (mm)	重量 (kg)
EDG-2510	1.22	4.9	4.9	10.0	25.0	1.41





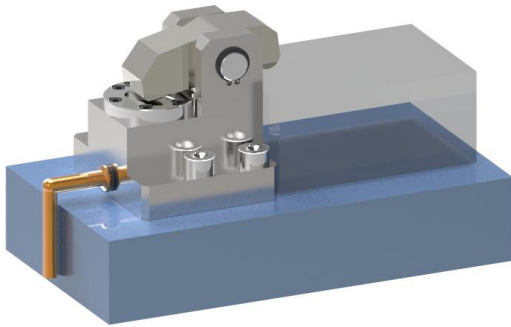
## 摇臂式夹紧器 Rocker Clamp

### 特性

1. 摇臂式夹紧器适用于快速换模用(Quick Die Change)工位。
2. 夹臂(rocker clamp arm)的运作行程短,便于安装无干扰,特适合狭小的安装控件。
3. 可以用手将夹臂朝自己所希望的方向旋转,模具的组装、脱落容易。
4. 产品因用枢销连接构成,可以坚固、安全地使用。
5. 单作用式
6. 使用油压范围: 15~250kgf/cm<sup>2</sup>
7. 使用环境温度: 0~60℃

1. This product is suitable for Quick Die Change clamps, and it is made for convenient press die replacement.
2. It can be applied easily for fixing standard workpiece.
3. The short operating stroke of the rocker lever is suitable for a constrained space between the base plates of die.
4. It is connected to the pivot pin and can be used firmly and safely.
5. It performs in single-acting.

### Application 应用

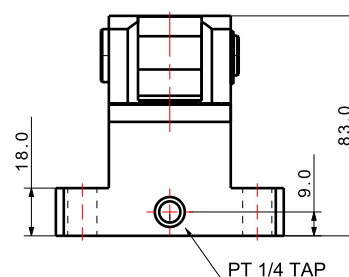
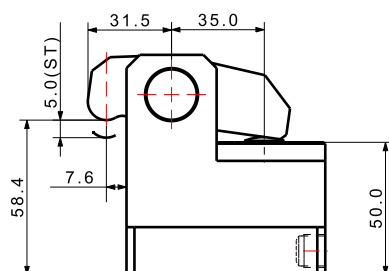
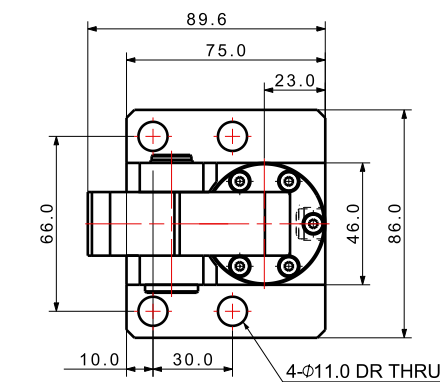


### Specification 规格

型号	行程 (mm)	油缸容量 (cm <sup>3</sup> )	油缸面积 (cm <sup>2</sup> )	最大夹紧力 (Ton)	重量 (kg)
RCS-3005	5.0	3.5	7.0	1.9	2.2

> RCS - 30 07  
 ① 内径(mm)  
 ② 全行程(mm)

### > RCS - 3007



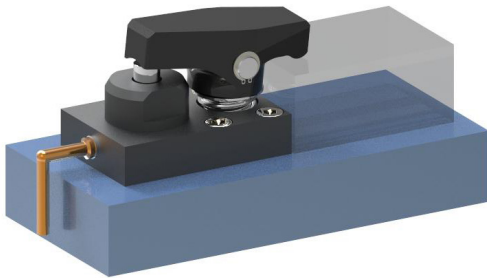
## 摇臂式夹器 Rocker Clamp



### 特性

1. 摇臂式夹器适用于快速换模用(Quick Die Change)工位。
2. 夹臂(rocker clamp arm)的运作行程短, 便于安装无干扰, 特适合狭小的安装控件。
3. 可以用手将夹臂朝自己所希望的方向旋转, 模具的组装、脱落容易。
4. 产品因用枢销连接构成, 可以坚固、安全地使用。
5. 单作用式
6. 利用下面的螺母和标准T-槽形螺母等可以安装, 依据托架孔高度的面, 可以以多种方法调整夹紧高度。
7. 使用油压范围: 15~250kgf/cm<sup>2</sup>
8. 使用环境温度: 0~60oC

### Application 应用



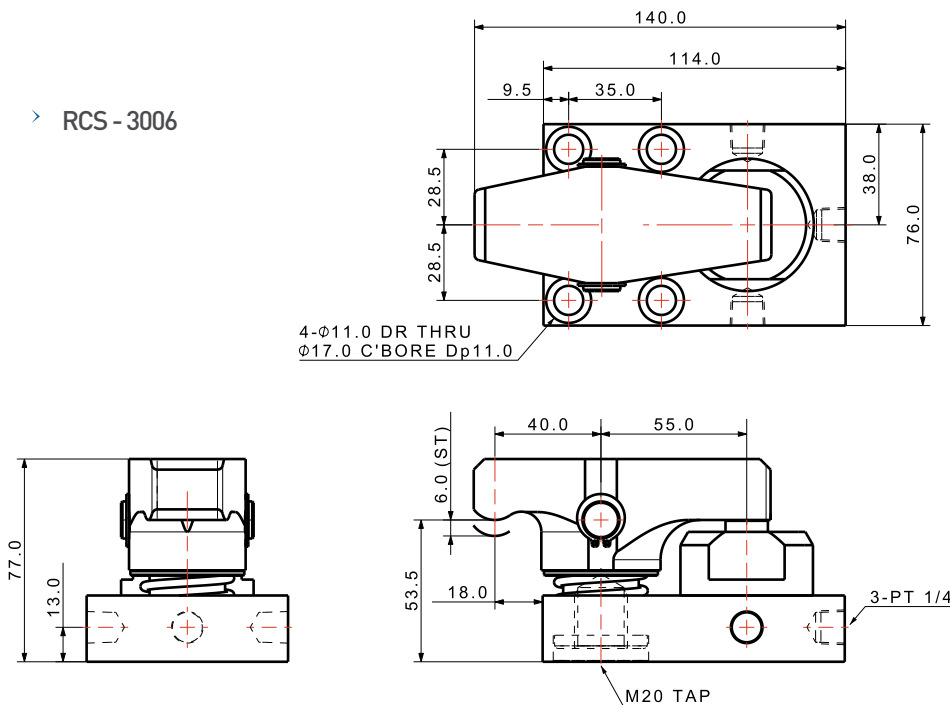
1. This product is suitable for Quick Die Change clamps, and it is made for convenient press die replacement.
2. The short operating stroke of the rocker lever is suitable for a constrained space between the base plates of die.
3. The clamp lever can be rotated to the desired direction, making it easy to attach/detach the mold.
4. It is connected to the pivot pin and can be used firmly and safely.
5. It performs in single-acting.
6. It can be installed using a female thread on the bottom and a standard T-slot nut, and the clamping height can be adjusted by the space according to the mounting hole height.

### Specification 规格

型号	行程 (mm)	油缸容量 (cm <sup>3</sup> )	油缸面积 (cm <sup>2</sup> )	最大夹紧力 (Ton)	重量 (kg)
RCS-3006	6.0	4.2	7.0	2.4	2.6

> RCS - 30 06 ①内径(mm) ②全行程(mm)

### > RCS - 3006



## Vise Clamp Applications 虎钳式夹紧器应用



## Vise Clamp Types 類型



Small Pitch Knurling Type  
STC-1223



Big Pitch Knurling Type  
STC-1223M



Tap Type 1  
STC-1223B



Tap Type 2  
STC-1223F

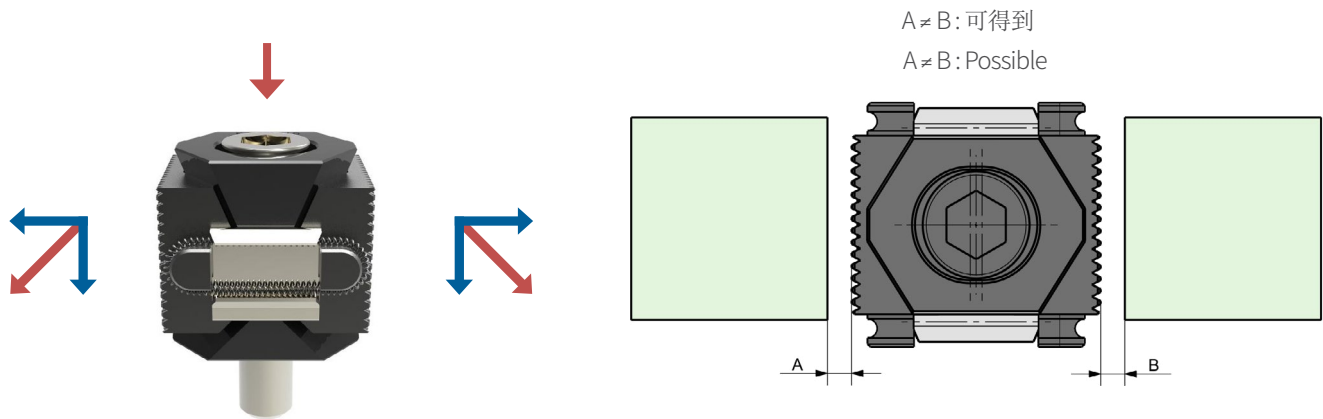
## Vise Clamp Introduction

1. 当楔子向下移动时，两侧的锥形被推到一边，然后向下夹住工件。
2. 在有限的空间内，加工多种工作物的夹具制作上有利。
3. 手动，自动都可适用。

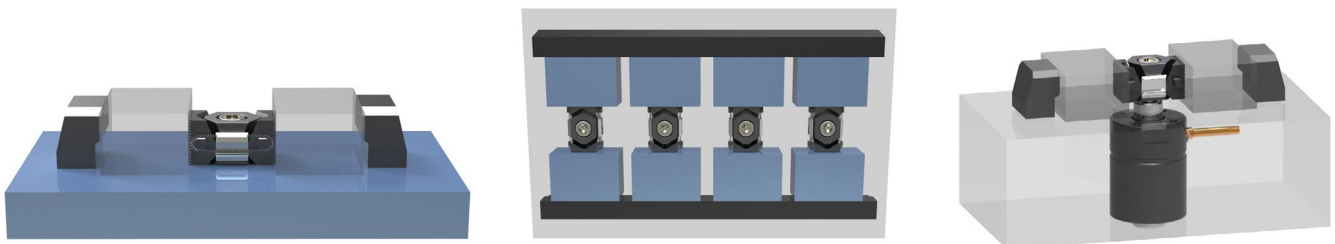
1. As the wedge moves downwards, the tapers on both sides are pushed to the side and down to clamp the workpiece.
2. It is advantageous for a jig that processes a large workpiece in a limited space.
3. The product is applicable to manual and automatic operation environment.

- > STC-1223: Knurling 1.0p      > STC-1223B: Length(垂直尺寸) 41.0mm
- STC-1223M: Knurling 2.0p      STC-1223F: Length(垂直尺寸) 38.0mm

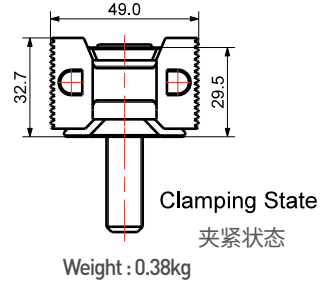
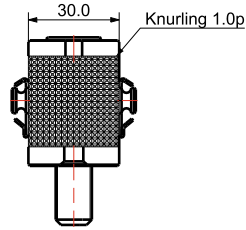
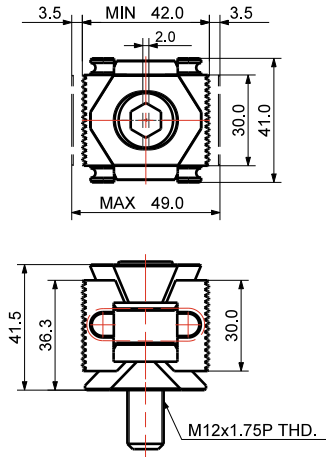
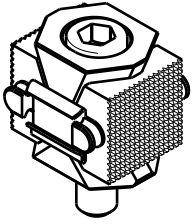
## Operation 动作



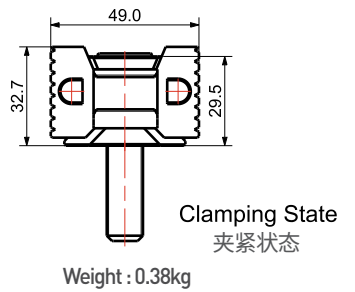
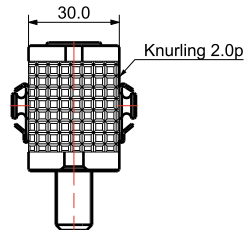
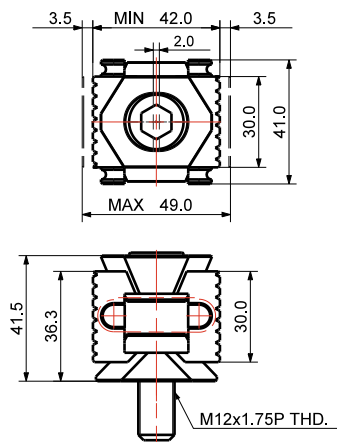
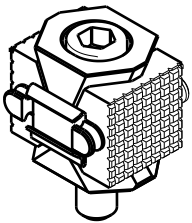
## Application 应用



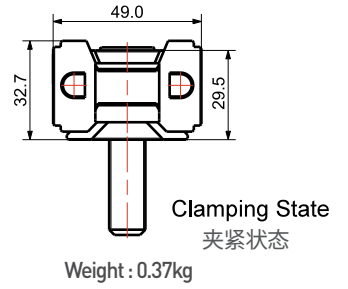
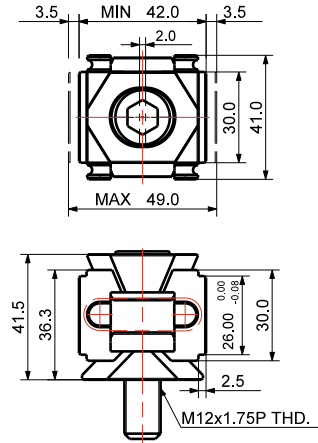
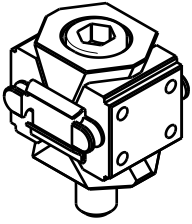
> STC - 1223



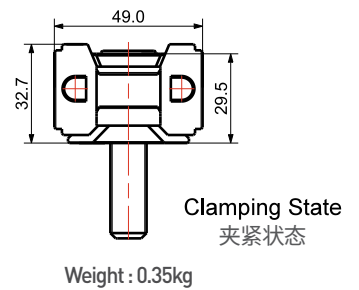
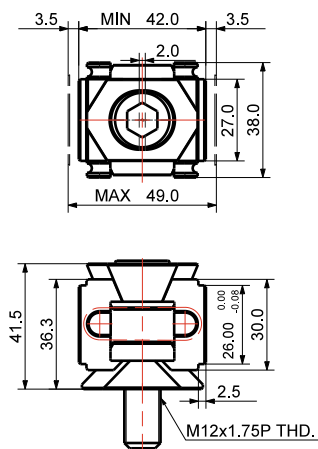
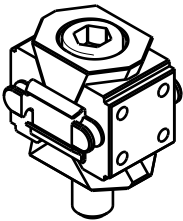
> STC - 1223M



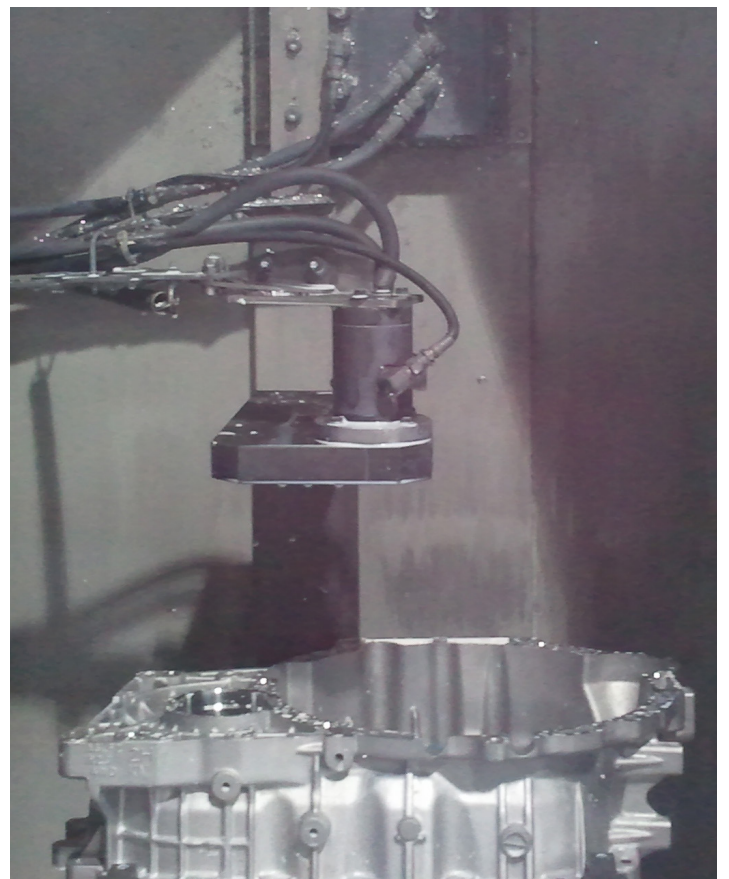
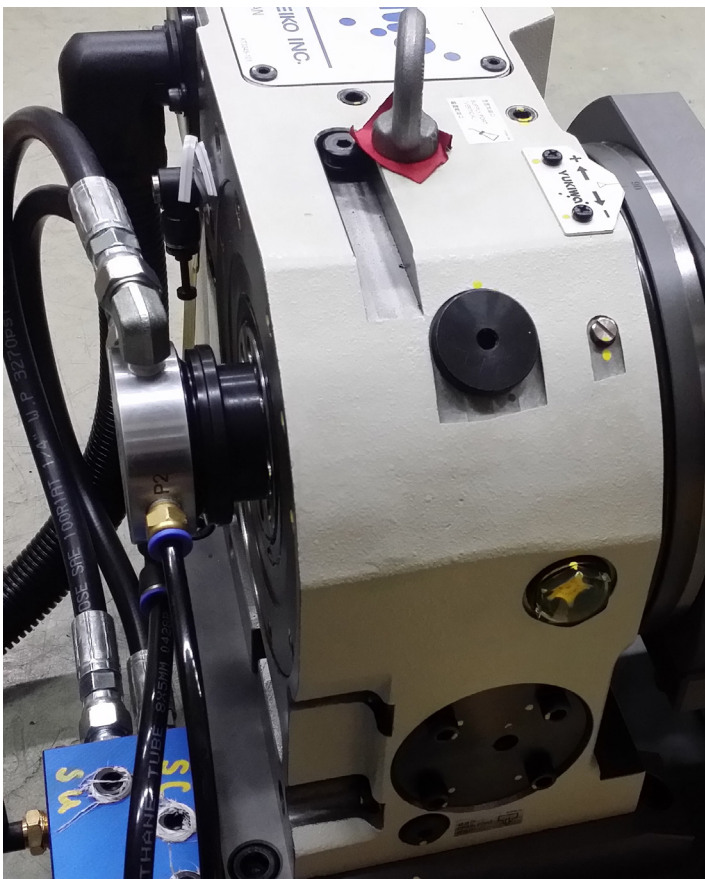
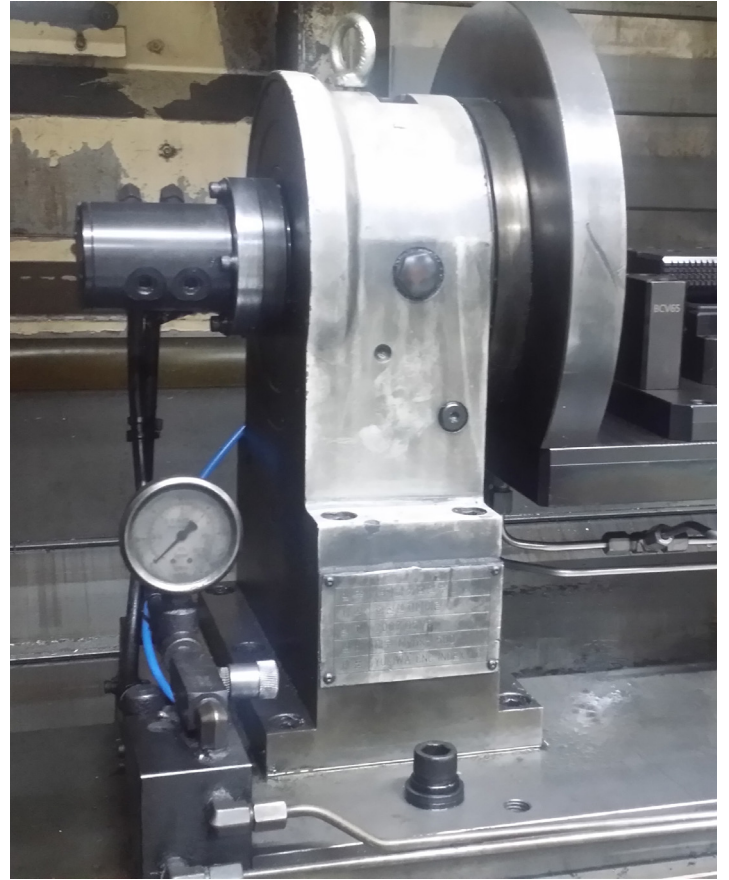
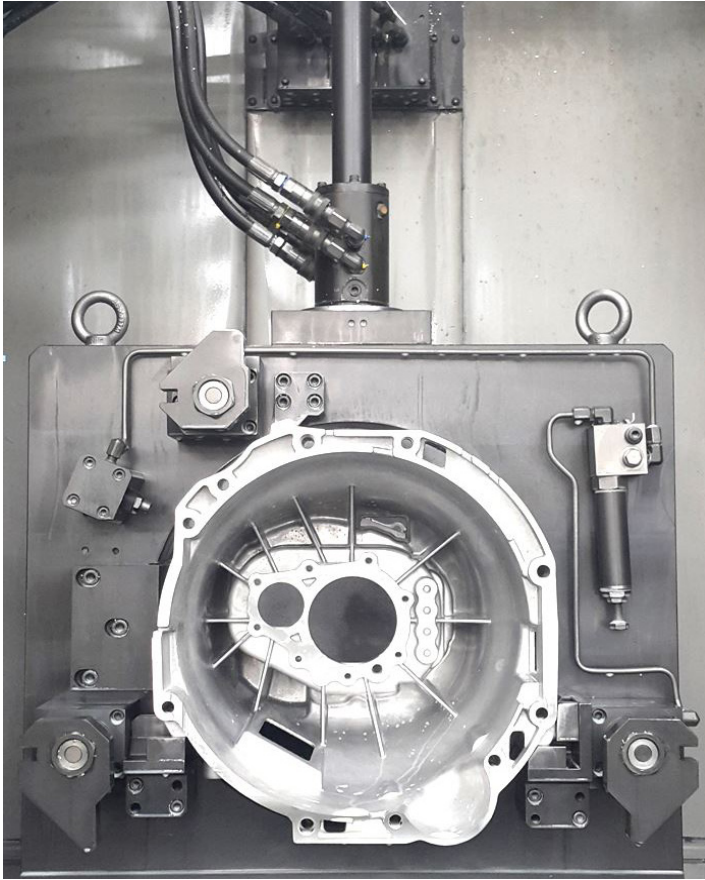
> STC - 1223B



> STC - 1223F



Rotary Joint Applications 旋转接头应用

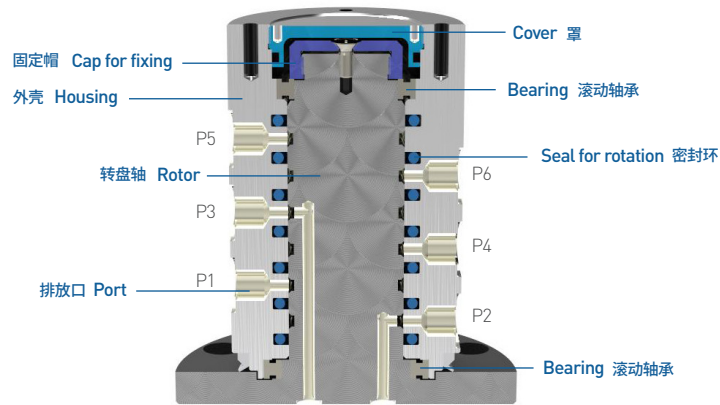


## Rotary Joint Introduction 旋转接头介绍

旋转接头是向设备或机器中旋转体供应液压、空气压力、切削油或真空等时使用。  
(株)KJF拥有多样化的旋转接头, 可以选择符合适用条件的最佳产品。

Rotary joint is used to supply hydraulic, pneumatic, cutting oil or vacuum to a rotor in equipment or facilities.  
KJF has various types of rotary joint to suit various usage conditions.

### Structure 结构体



### Rotary Joint Types 旋转接头类型



Flange type  
法兰型



Cartridge type  
嵌入式型



Compact Flange type  
小巧型



Top type  
顶型



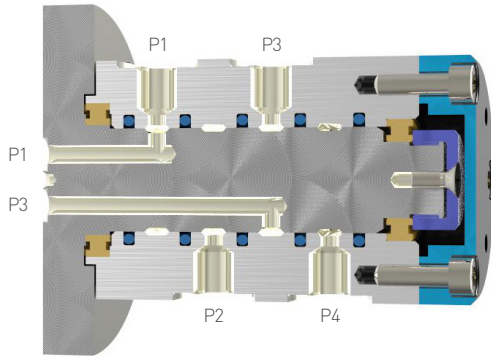
Male type  
外螺纹型



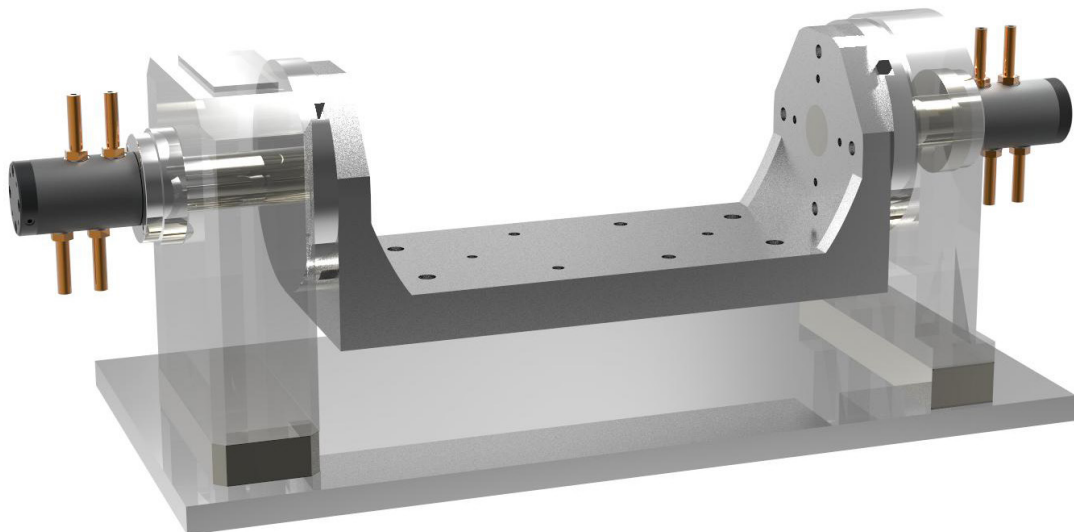
## 旋转接头 法兰型 Rotary Joint Flange Type



Structure 结构体



Application 应用



### 特性

1. 液压系统中向旋转的液压配件供油
2. 防止配管管道扭曲。

### 规格

1. 最大空气压力的使用压力：9.9kgf/cm<sup>2</sup>
2. 最大液压使用压力：150kgf/cm<sup>2</sup>
3. 使用温度范围：70°C
4. 最大允许的旋转数：120 rpm
5. 密封材质：专用密封
6. 使用介质：机油、空气、真空、切削油

### Features

1. Rotary joint supply hydraulic to rotating hydraulic components in the stopped hydraulic supply line.
2. It prevents piping twisting.

### Specifications

1. Max. pneumatic operating pressure : 9.9kgf/cm<sup>2</sup>
2. Max. hydraulic operating pressure : 150kgf/cm<sup>2</sup>
3. Operating temperature range : 0-70°C
4. Max. RPM : 120rpm
5. Sealing material : Exclusive seal
6. Fluid : hydraulic, air, vacuum, cutting oil

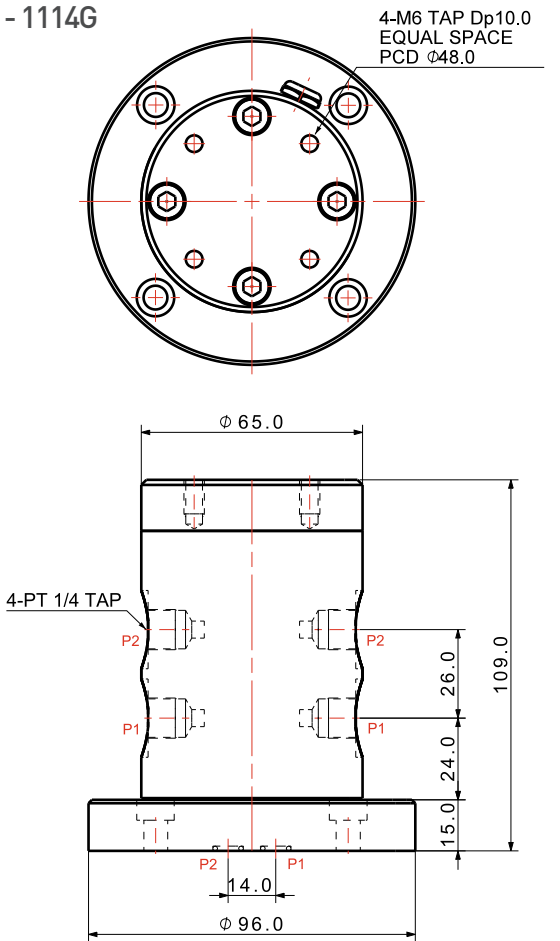
法兰盘类型旋转接头方便适用于钻孔机&垂直加工中心、水平加工中心的夹具。

Flange type is convenient to use for index fixture of tapping center & vertical machining center and fixture of horizontal machining center.

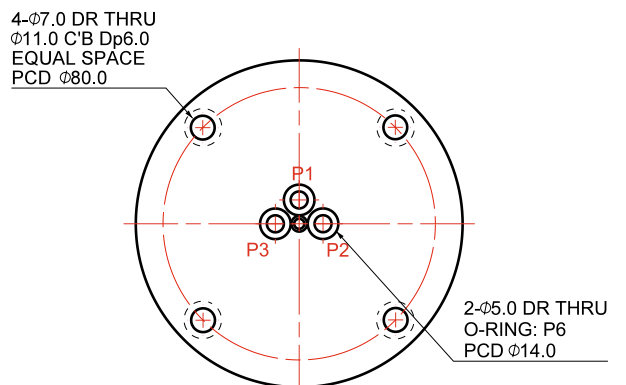
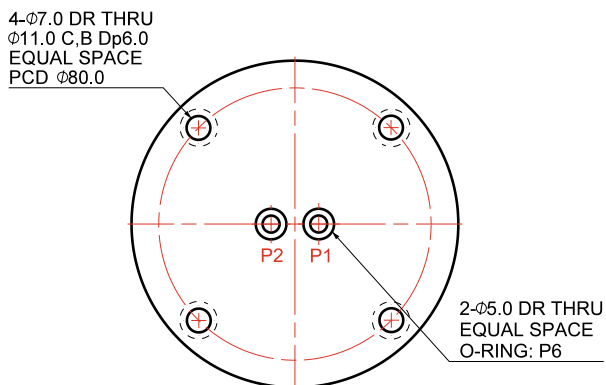
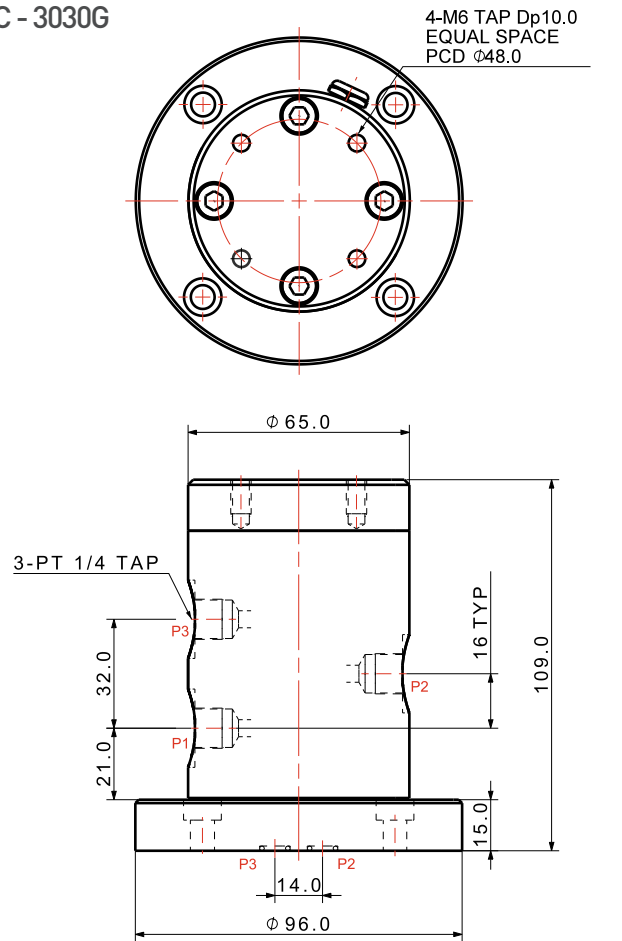
旋转接头 法兰型  
Rotary Joint Flange Type

型号	RTC-1114G	RTC-3030G
回路数	2	3
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	3.1 kg	3.1 kg

› RTC - 1114G



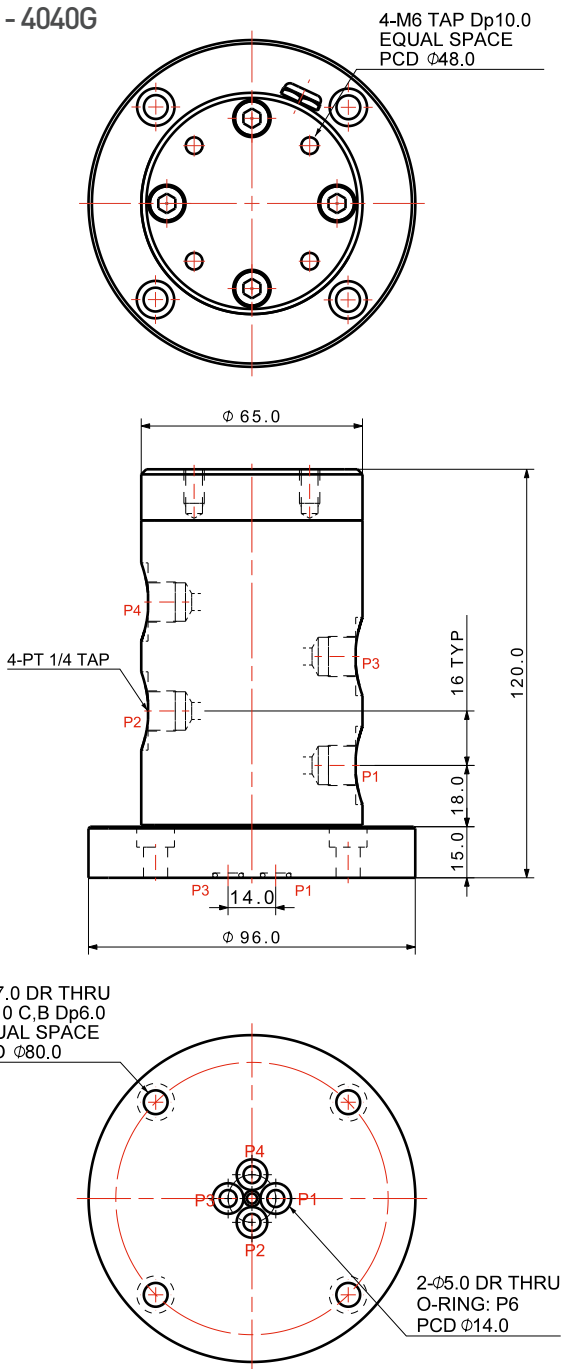
› RTC - 3030G



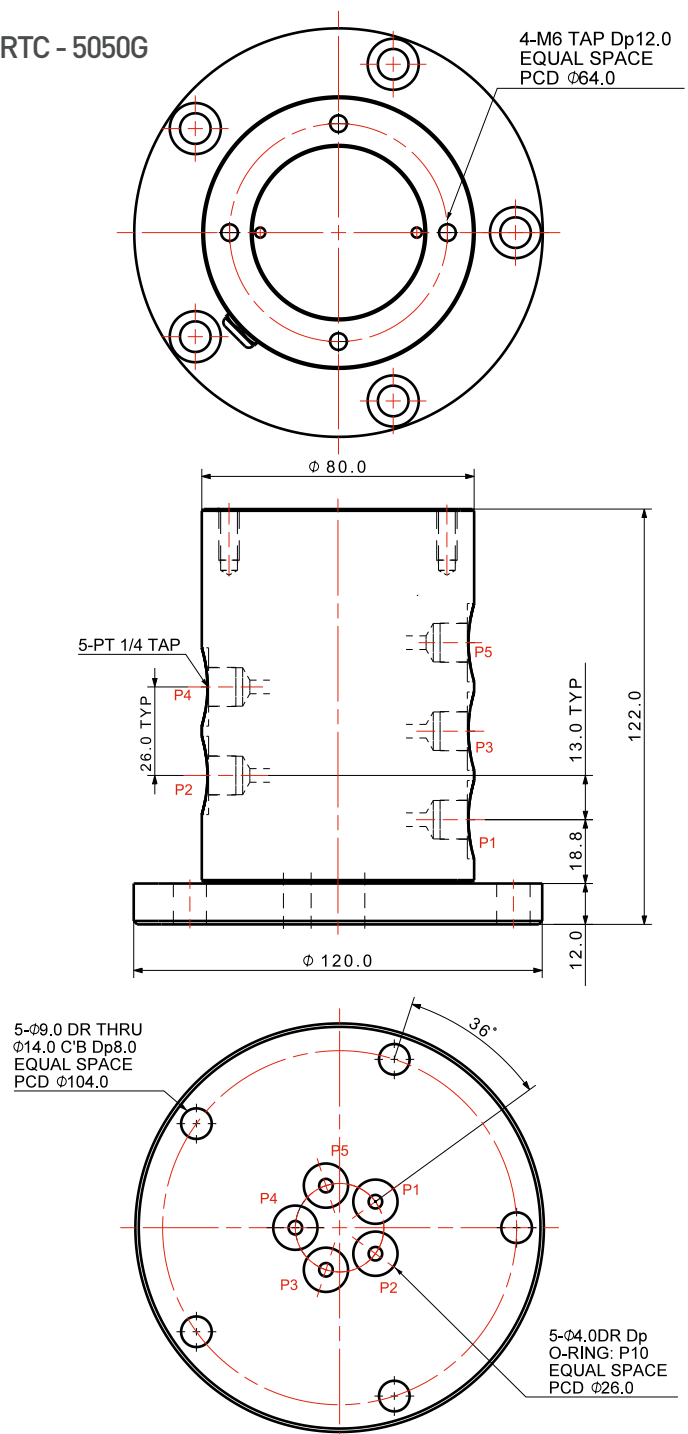
旋转接头 法兰型  
Rotary Joint Flange Type

型号	RTC-4040G	RTC-5050G
回路数	4	5
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	3.3 kg	4.9 kg

> RTC - 4040G



> RTC - 5050G

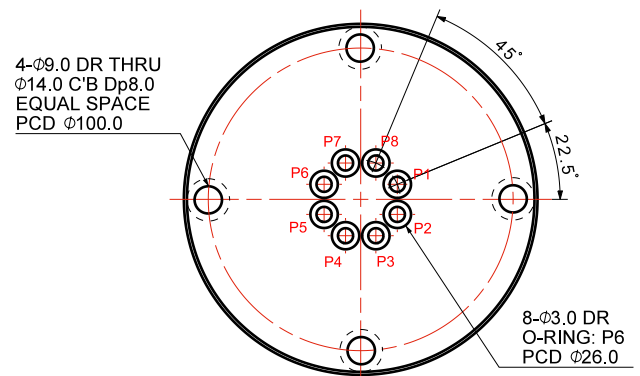
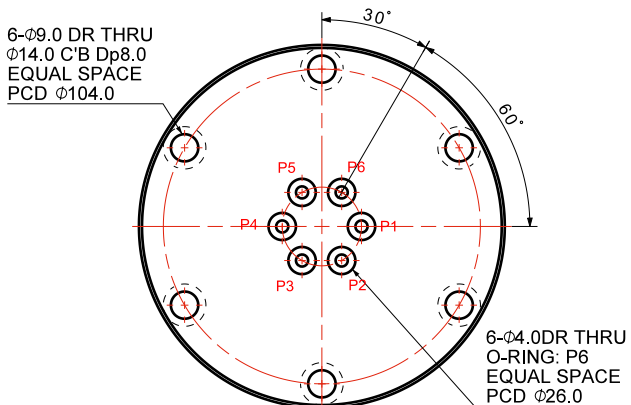
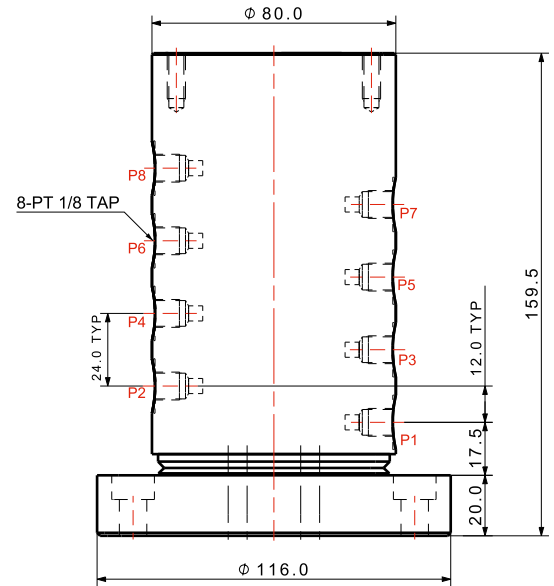
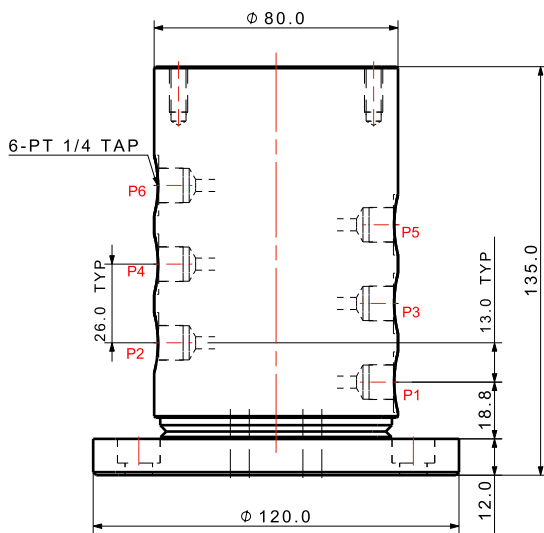
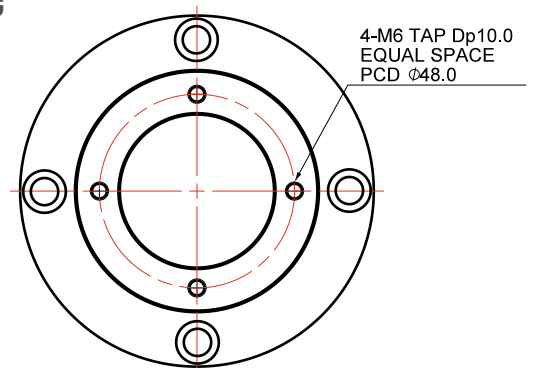
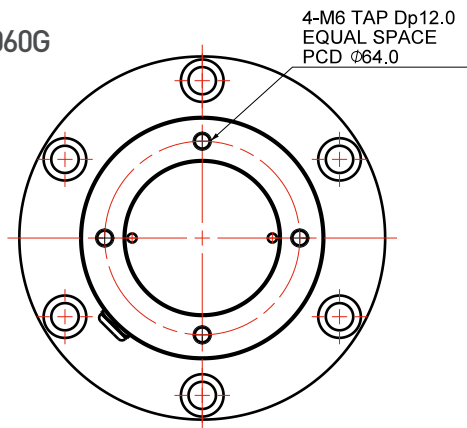


旋转接头 法兰型  
Rotary Joint Flange Type

型号	RTC-6060G	RTC-8080G
回路数	6	8
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	5.4 kg	6.5 kg

> RTC - 6060G

> RTC - 8080G



旋转接头 法兰型

Rotary Joint Cartridge Type



特性

1. 液压系统中向旋转的液压配件供油
2. 防止配管管道扭曲。

Features

1. Rotary joint supply hydraulic to rotating hydraulic components in the stopped hydraulic supply line.
2. It prevents piping twisting.

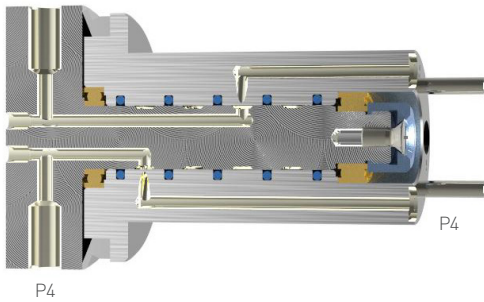
规格

1. 最大空气压力的使用压力：9.9kgf/cm<sup>2</sup>
2. 最大液压使用压力：150kgf/cm<sup>2</sup>
3. 使用温度范围：70°C
4. 最大允许的旋转数：120 rpm
5. 密封材质：专用密封
6. 使用介质：机油、空气、真空、切削油

Specifications

1. Max. pneumatic operating pressure : 9.9kgf/cm<sup>2</sup>
2. Max. hydraulic operating pressure : 150kgf/cm<sup>2</sup>
3. Operating temperature range : 0-70°C
4. Max. RPM : 120rpm
5. Sealing material : Exclusive seal
6. Fluid : hydraulic, air, vacuum, cutting oil

Structure 结构体

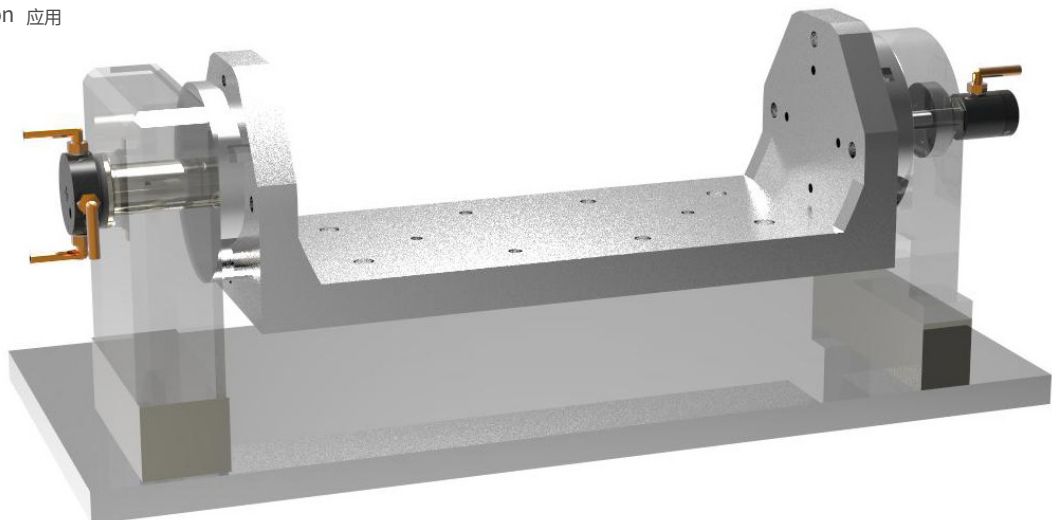


嵌入式旋转接头是插入空心轴使用,因此夹具的整体长度有缩小的效果。并且使外侧到内侧螺丝组装的方式,因此维修时基准点上没有变化,谁都可以容易的进行更换工作。

The Cartridge type is inserted into the hollow shaft of the index, thereby reducing the overall length of the fixture.

Bolts are mounted from the outside to the inside and there is no change to the reference point during repair for easy replacement.

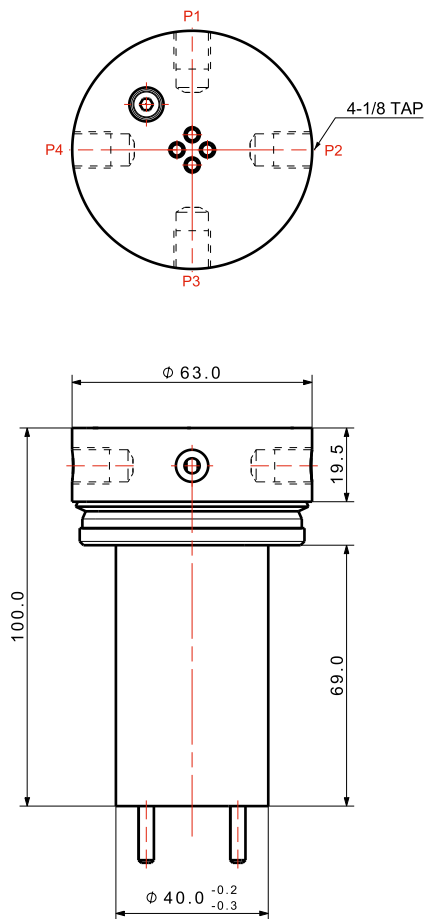
Application 应用



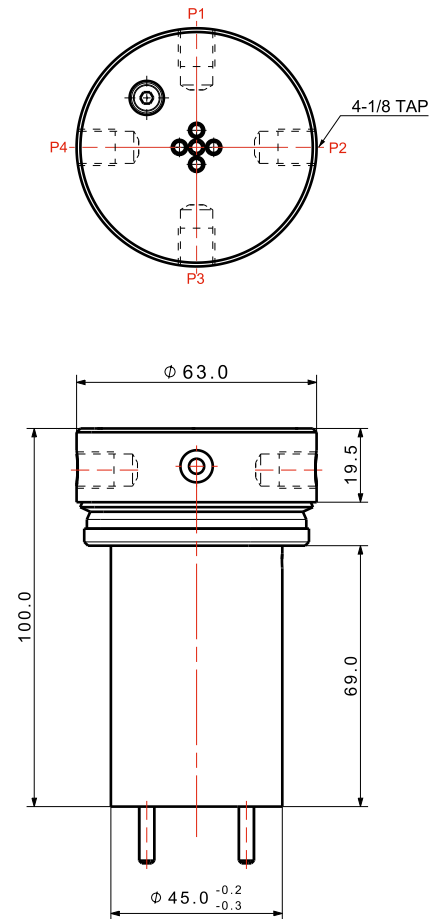
旋转接头 嵌入式型  
Rotary Joint Cartridge Type

型号	RTC-4040C	RTC-4045C
回路数	4	4
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	1.3 kg	1.4 kg

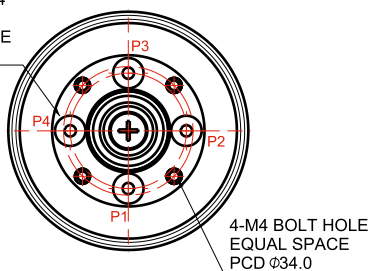
> RTC - 4040C



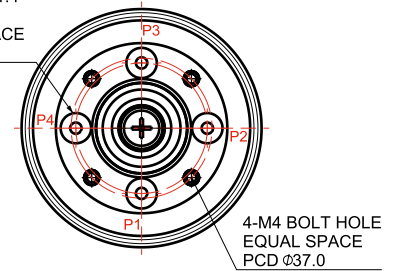
> RTC - 4045C



4- $\phi 3.0$  DR  
 $\phi 8.0$  C'B Dp1.4  
 P5 O-RING  
 EQUAL SPACE  
 PCD  $\phi 30.5$



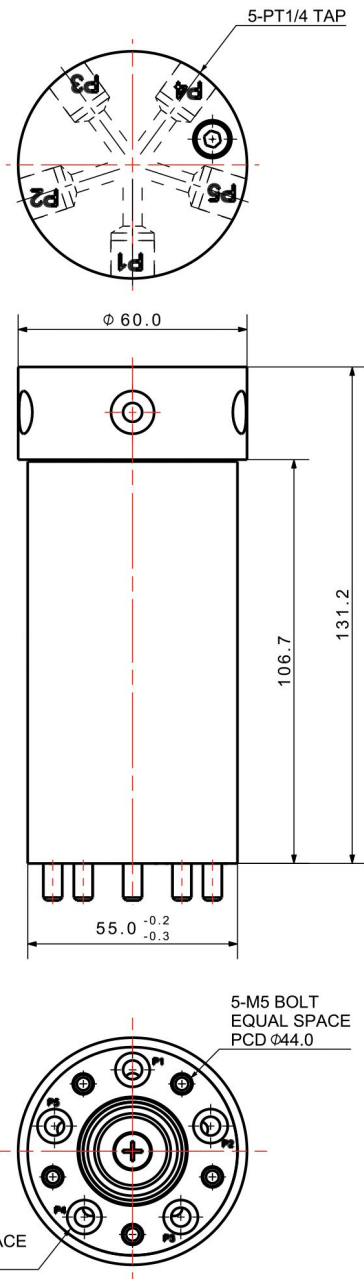
4- $\phi 3.0$  DR  
 $\phi 8.0$  C'B Dp1.4  
 P5 O-RING  
 EQUAL SPACE  
 PCD  $\phi 34.5$



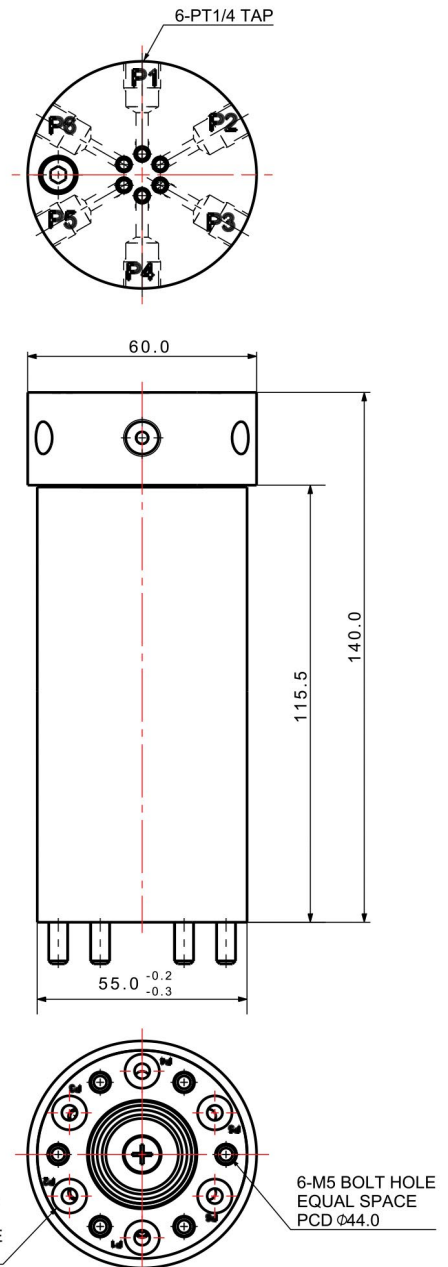
## Rotary Joint Cartridge Type

型号	RTC-5055C	RTC-6055C
回路数	5	6
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	2.23 kg	2.41 kg

### > RTC - 5055C



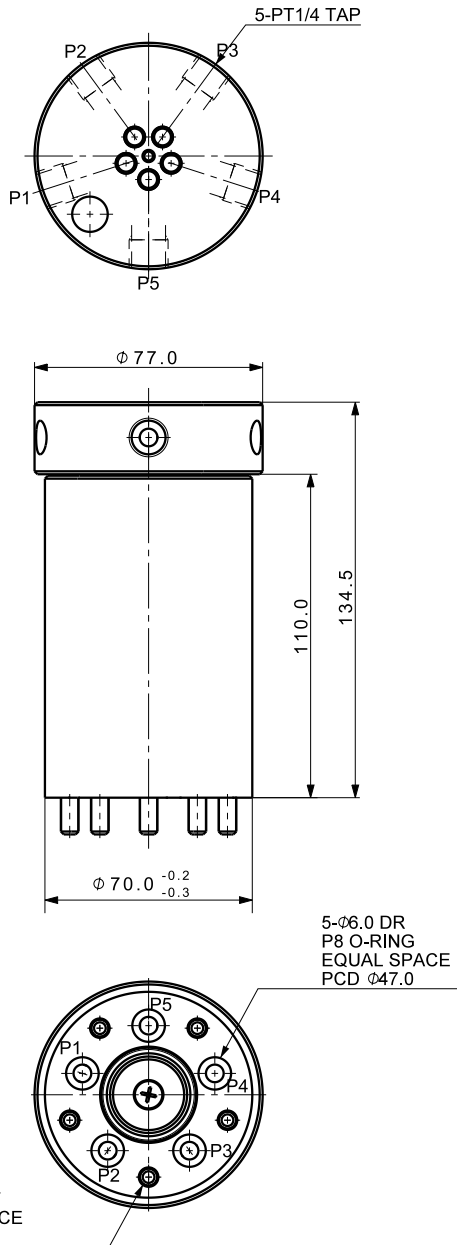
### > RTC - 6055C



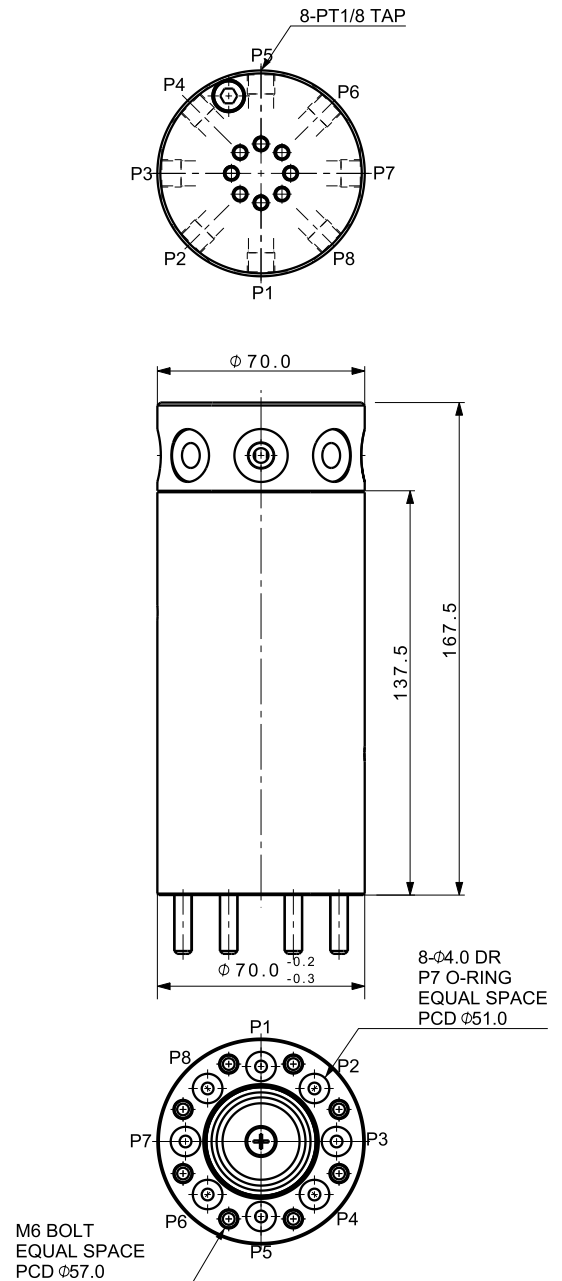
## Rotary Joint Cartridge Type

型号	RTC-5070C	RTC-8070C
回路数	5	8
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	3.79 kg	4.58 kg

### > RTC-5070C



### > RTC-8070C





旋转接头 小巧型法兰型

Rotary Joint Compact Flange Type



特性

1. 液压系统中向旋转的液压配件供油。
2. 防止配管管道扭曲。
3. 因尺寸小，容易安装在水平夹具上。

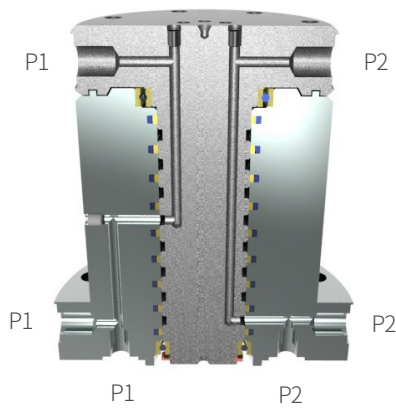
Features

1. Provides hydraulic to rotating hydraulic parts from fixed hydraulic line.
2. Prevents twisted lines.
3. It is compact and easy to install in horizontal fixture.

规格

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. 最大空气压力的使用压力：9.9kgf/cm<sup>2</sup></li> <li>2. 最大液压使用压力：100kgf/cm<sup>2</sup></li> <li>3. 使用温度范围：70°C</li> <li>4. 最大允许的旋转数：120 rpm</li> <li>5. 密封材质：专用密封</li> <li>6. 使用流体：机械运作油、air、真空、切削油</li> </ol> | <ol style="list-style-type: none"> <li>1. Max. pneumatic operating pressure : 9.9kgf/cm<sup>2</sup></li> <li>2. Max. hydraulic operating pressure : 100kgf/cm<sup>2</sup></li> <li>3. Operating temperature range : 0-70°C</li> <li>4. Max. RPM : 120rpm</li> <li>5. Sealing material : Exclusive seal</li> <li>6. Fluid : hydraulic, air, vacuum, cutting oil</li> </ol> |
|--|---|

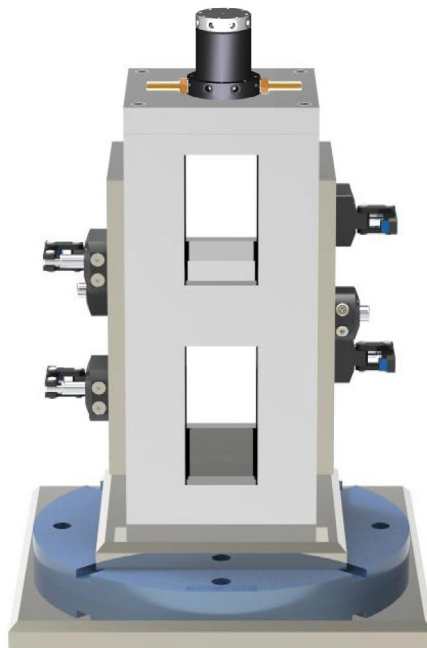
Structure 结构体



紧凑型法兰式旋转接头，占用空间小，便于立式加工中心夹具使用。

Compact flange type minimizes space occupancy and is convenient to use for fixture of vertical machining center.

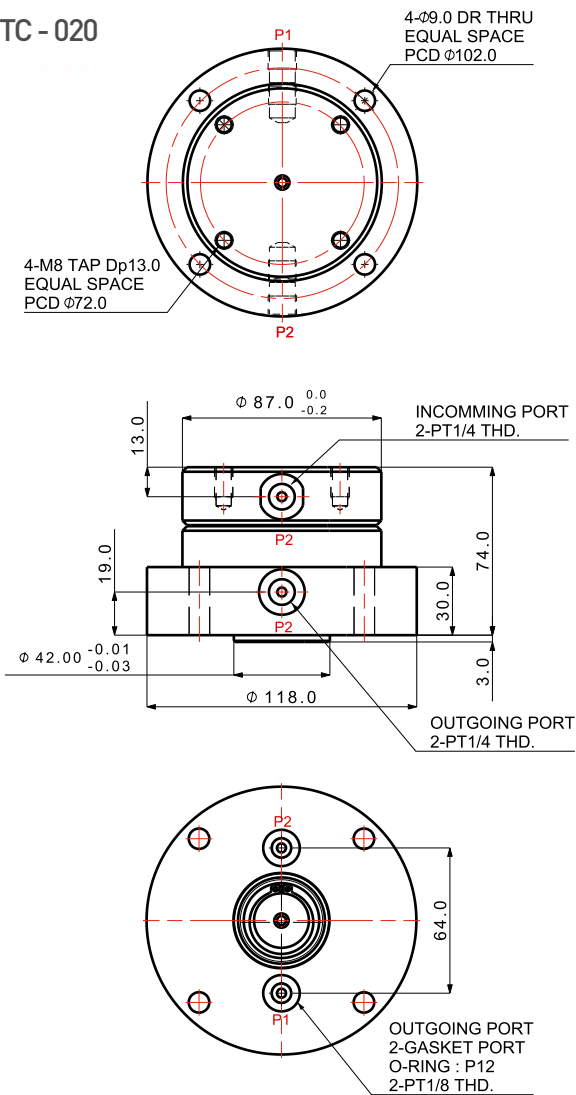
Application 应用



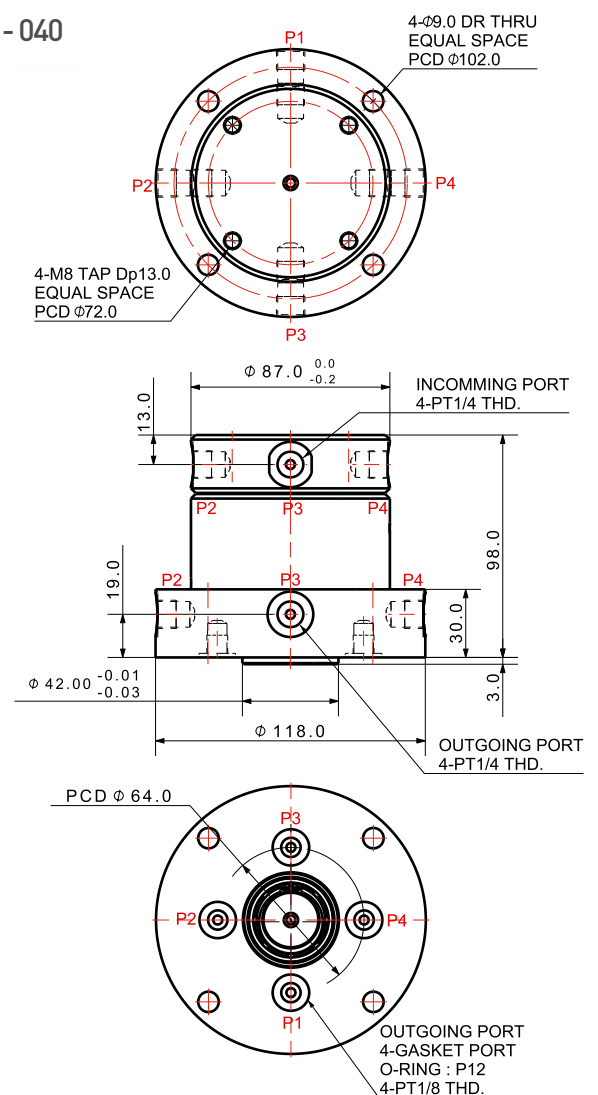
Rotary Joint Compact Flange Type  
旋转接头 小巧型法兰型

型号	RTC-020	RTC-040
回路数	2	4
使用流体	Hydraulic Oil, Air, Vacuum, Cutting Fluid	
最高使用压力	100kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	4.36 kg	5.34 kg

> RTC - 020



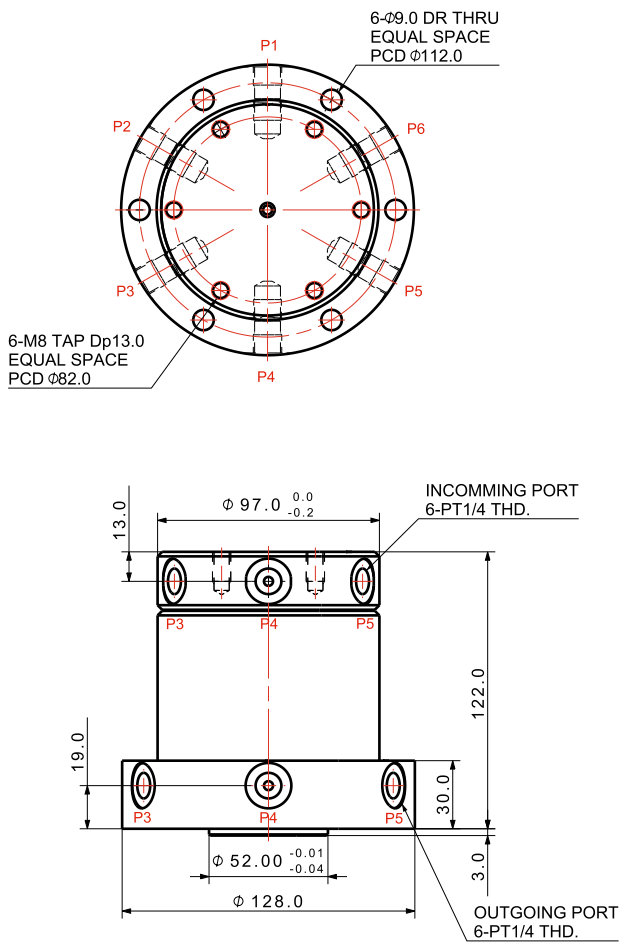
> RTC - 040



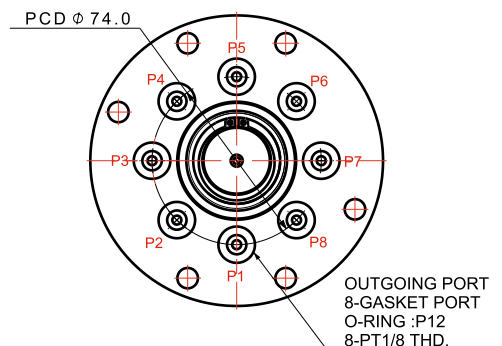
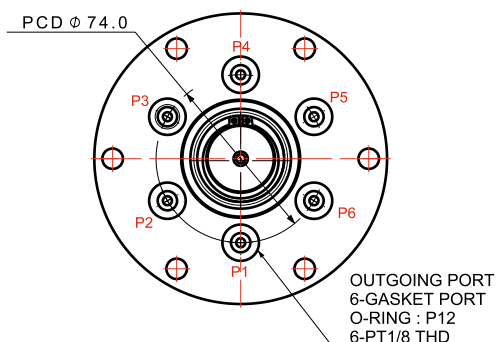
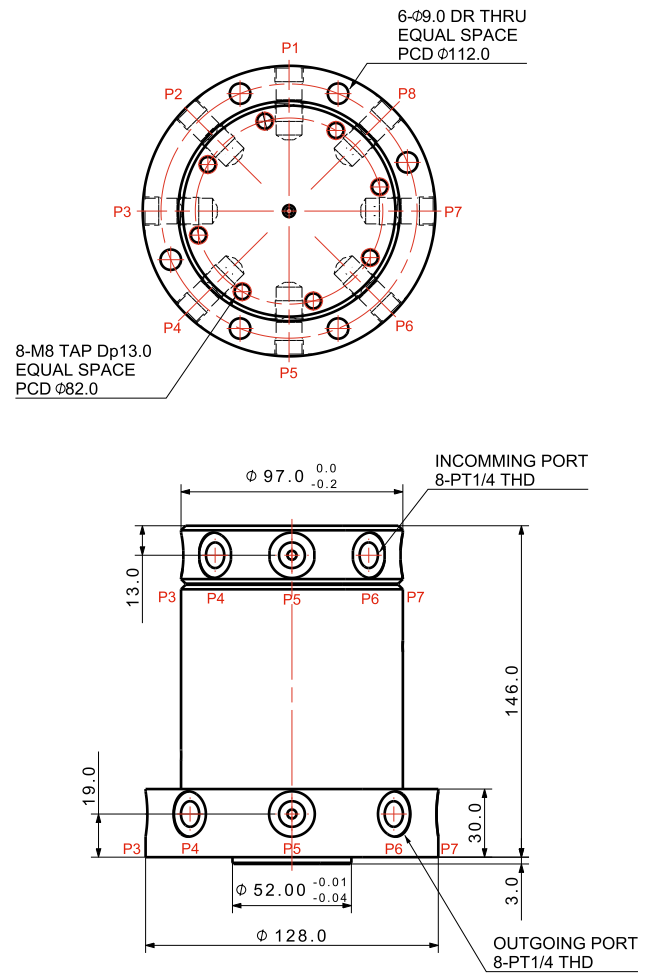
小巧型旋转接头 法兰型  
Compact Rotary Joint Flange Type

型号	RTC-060	RTC-080
回路数	6	8
使用流体	机油、air、真空、切削油	
最高使用压力	100kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	7.75 kg	8.98 kg

> RTC - 060



> RTC - 080

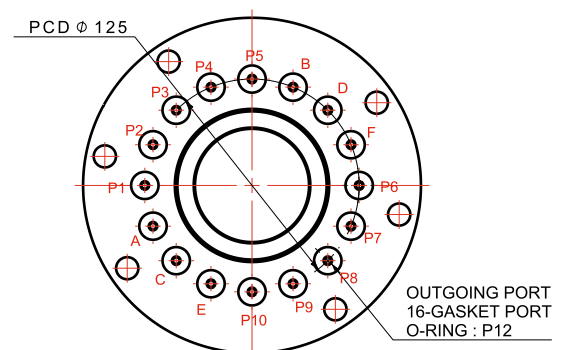
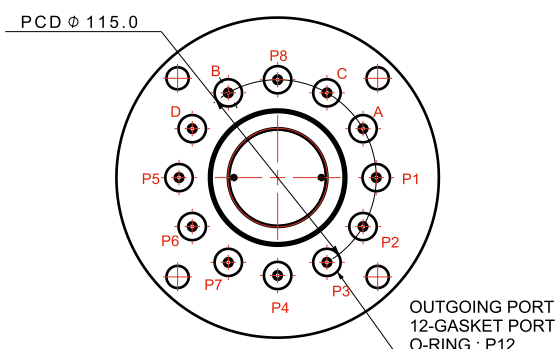
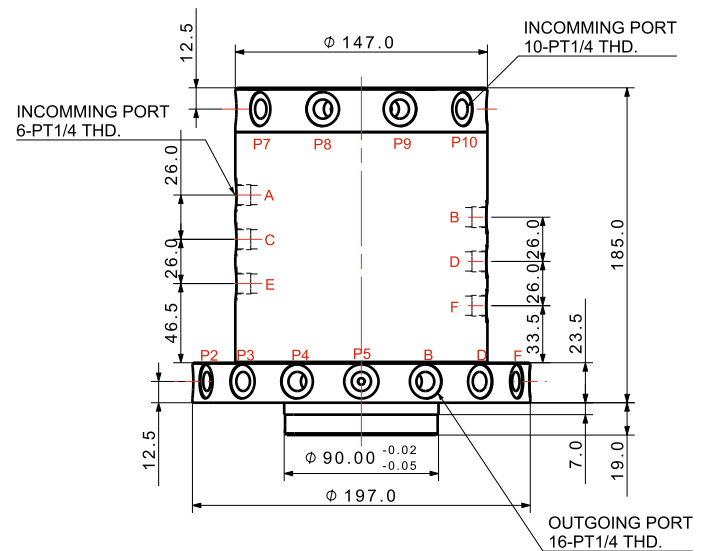
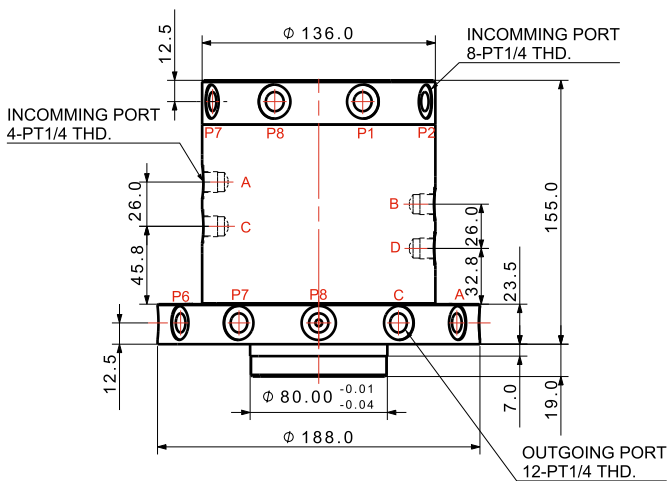
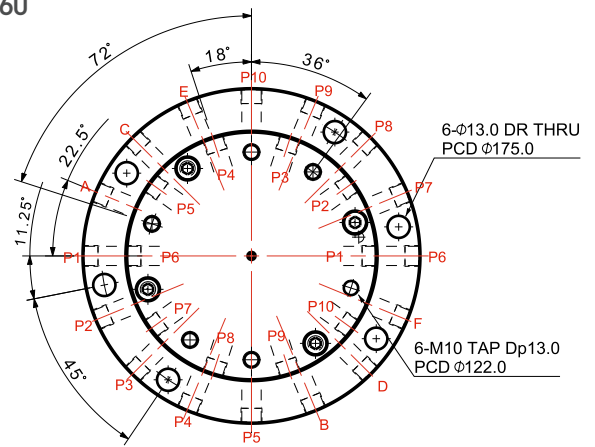
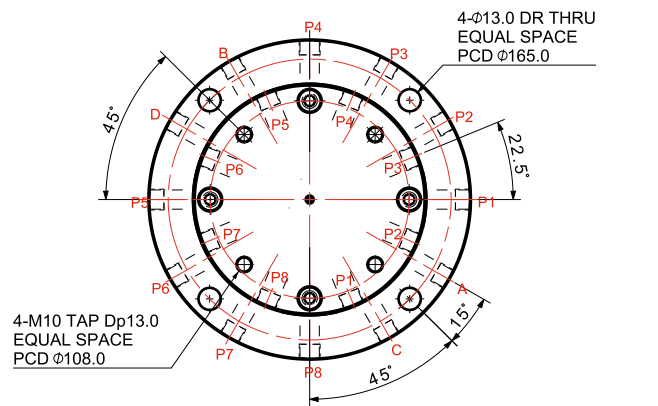


小巧型旋转接头 法兰型  
Compact Rotary Joint Flange Type

型号	RTC-120	RTC-160
回路数	12	16
使用流体	机油、air、真空、切削油	
最高使用压力	100kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	18.56 kg	24.88 kg

> RTC - 120

> RTC - 160



## 旋转接头 顶型 Rotary Joint Top Type



### 特性

1. 液压系统中向旋转的液压配件供油
2. 防止配管管道扭曲

### Features

1. Rotary joint supply hydraulic to rotating hydraulic components in the stopped hydraulic supply line.
2. It prevents piping twisting.

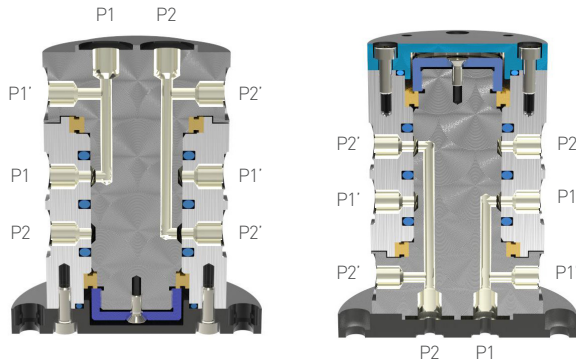
### 规格

1. 最大空气压力的使用压力: 9.9kgf/cm<sup>2</sup>
2. 最大液压使用压力: 150kgf/cm<sup>2</sup>
3. 使用温度范围: 70°C
4. 最大允许的旋转数: 120 rpm
5. 密封材质: 专用密封
6. 使用流体: 机械运作油、air、真空、切削油

### Specifications

1. Max. pneumatic operating pressure: 9.9kgf/cm<sup>2</sup>
2. Max. hydraulic operating pressure: 150kgf/cm<sup>2</sup>
3. Operating temperature range: 0-70°C
4. Max. RPM: 120rpm
5. Sealing material: Exclusive seal
6. Fluid: hydraulic, air, vacuum, cutting oil

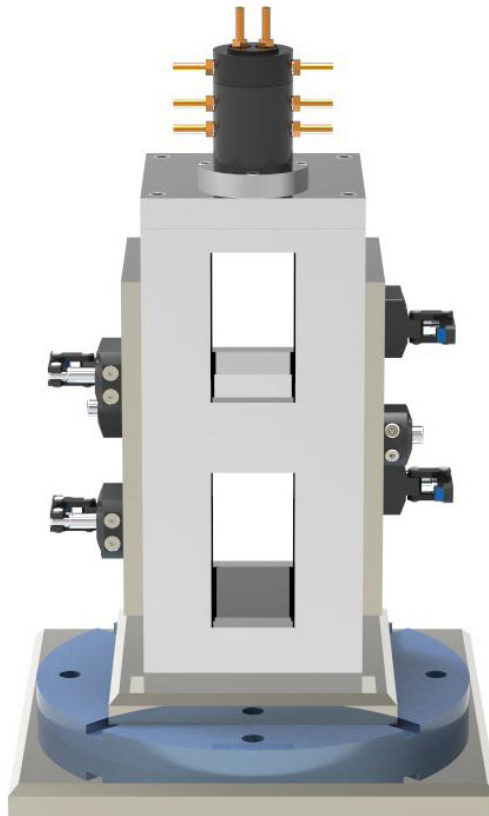
### Structure 结构体



顶部类型旋转接头组装是利用分度工作台, 此产品在水平加工中心、专门加工设备夹具用非常便利。

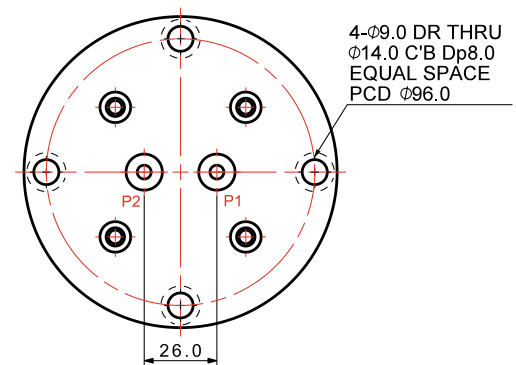
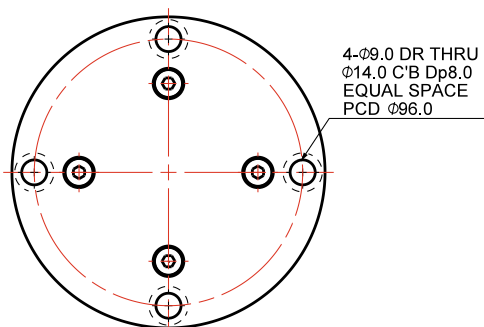
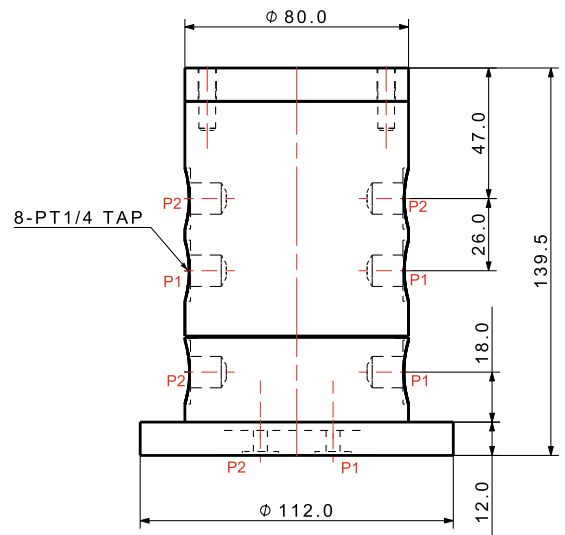
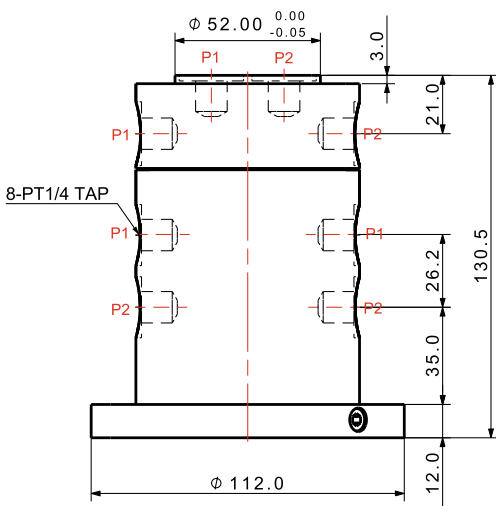
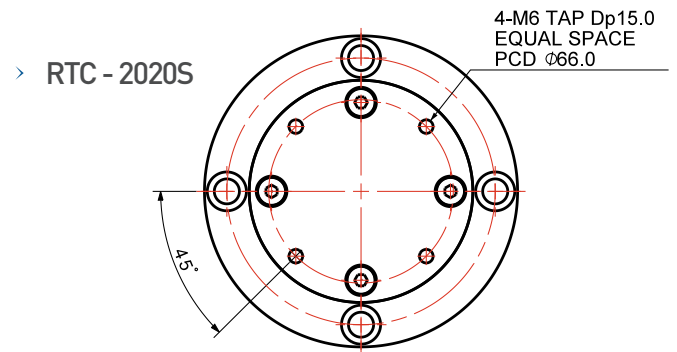
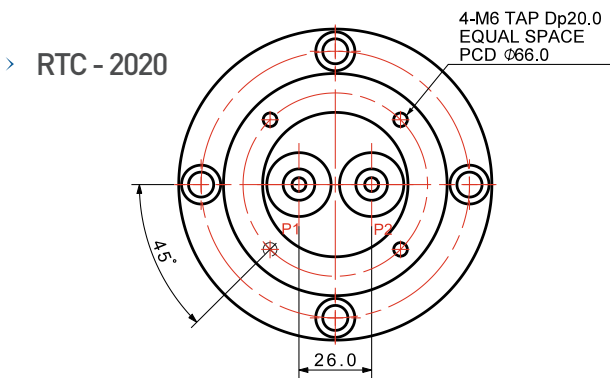
It is useful for exclusive processing machine or assembly with index table as well as fixture of horizontal machining center.

### Application 应用



旋转接头 顶型  
Rotary Joint Top Type

型号	RTC-2020	RTC-2020S
回路数	2	2
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	5.0 kg	5.5 kg



## 旋转接头 外螺纹型 Rotary Joint Male Type



### 特性

1. 液压系统中向旋转的液压配件供油
2. 防止配管管道扭曲

### Features

1. Rotary joint supply hydraulic to rotating hydraulic components in the stopped hydraulic supply line.
2. It prevents piping twisting.

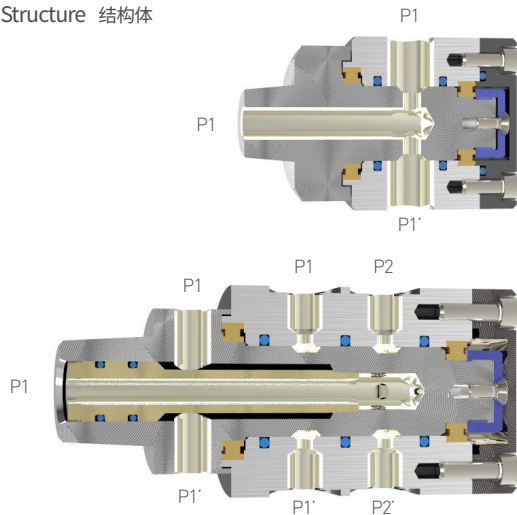
### 规格

1. 最大空气压力的使用压力: 9.9kgf/cm<sup>2</sup>
2. 最大液压使用压力: 150kgf/cm<sup>2</sup>
3. 使用温度范围: 70°C
4. 最大允许的旋转数: 120 rpm
5. 密封材质: 专用密封
6. 使用流体: 机械运作油、air、真空、切削油

### Specifications

1. Max. pneumatic operating pressure : 9.9kgf/cm<sup>2</sup>
2. Max. hydraulic operating pressure : 150kgf/cm<sup>2</sup>
3. Operating temperature range : 0-70°C
4. Max. RPM : 120rpm
5. Sealing material : Exclusive seal
6. Fluid : hydraulic, air, vacuum, cutting oil

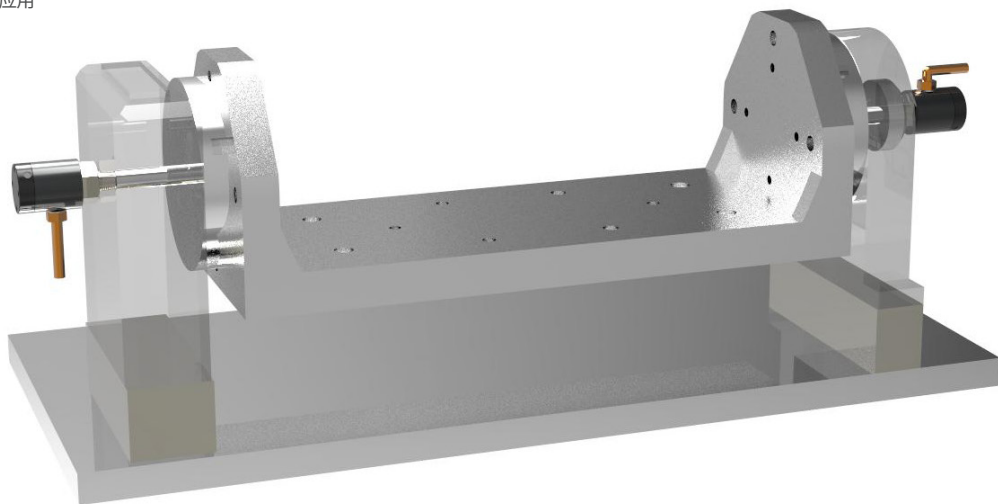
### Structure 结构体



外螺纹型旋转接头接口是PT螺纹

The male type should be secured with PT tap to the installation location.

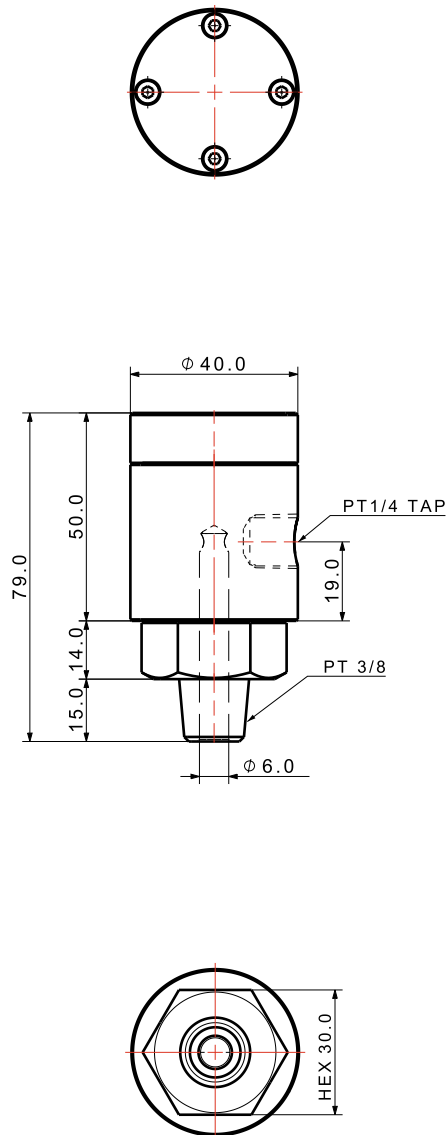
### Application 应用



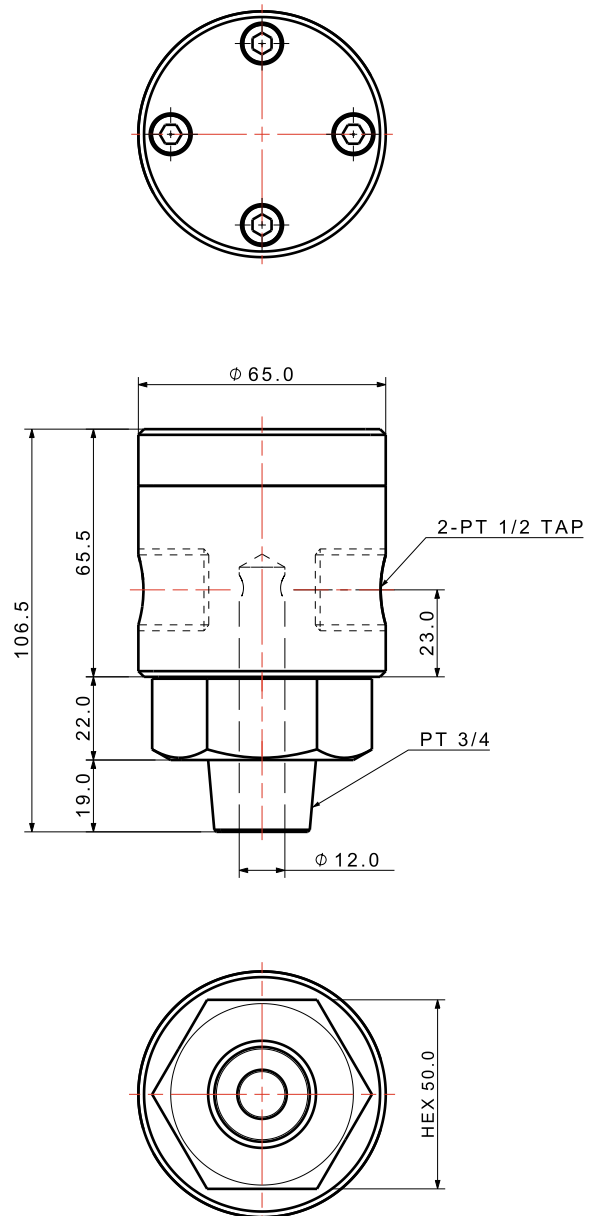
旋转接头 顶型  
Rotary Joint Male Type

型号	RTC-3814	RTC-3412
回路数	1	1
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	0.55 kg	1.93 kg

> RTC - 3814



> RTC - 3412

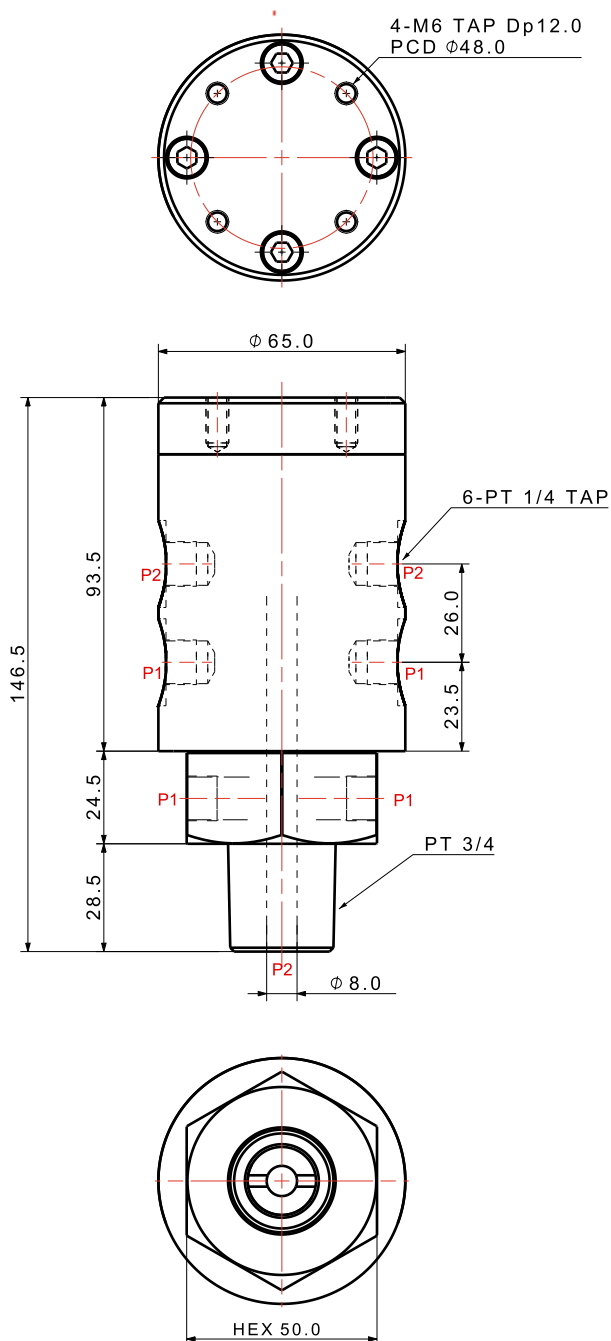




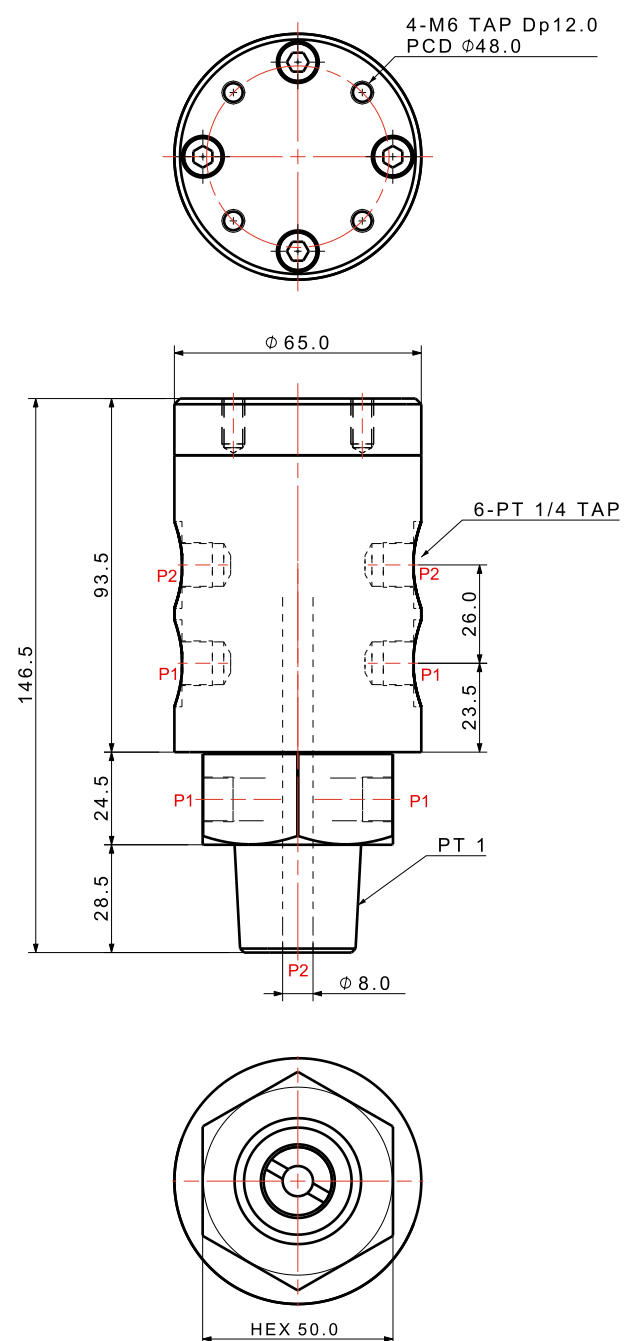
旋转接头 顶型  
Rotary Joint Male Type

型号	RTC-3414	RTC-1014
回路数	2	2
使用流体	机油、air、真空、切削油	
最高使用压力	150kgf/cm <sup>2</sup>	
每分钟最大转速	120rpm	
使用环境温度	0~70°C	
重量	2.7 kg	2.7 kg

> RTC-3414



> RTC-1014



## 旋转接头 Rotary Joint

### 使用 注意事 Comments and cautions for operation

1. 安装旋转接头时,将旋转部分和外壳的同心轴调为一致非常重要。

1. It is very important to match the center of rotary and housing when installing rotary joint.

A. 安装旋转接头时,牢固地固定旋转部分,没有旋转的部分松懈地固定,使不旋转的零件自然地跟着旋转的零件运动。(参考以下图)

A. When installing a rotary joint, the rotating component should be fixed firmly and the non-rotating component should be loosely fastened. In doing so, the rotating components should move naturally following non-rotating components.

C. 为了让不旋转的零件不跟着旋转,安装支架时也松弛地捆绑,并使不旋转的零件自然地跟随旋转的零件移动而不妨碍。(参考如下图)

C. When installing the bracket to prevent rotation of non-rotating components following rotating components, the bracket should be fastened loosely so as not to interfere with the natural movement of the rotating components.

B. 配管时旋转部分用钢管配管也可以,不旋转的部分必须要用足够长的软管配管。

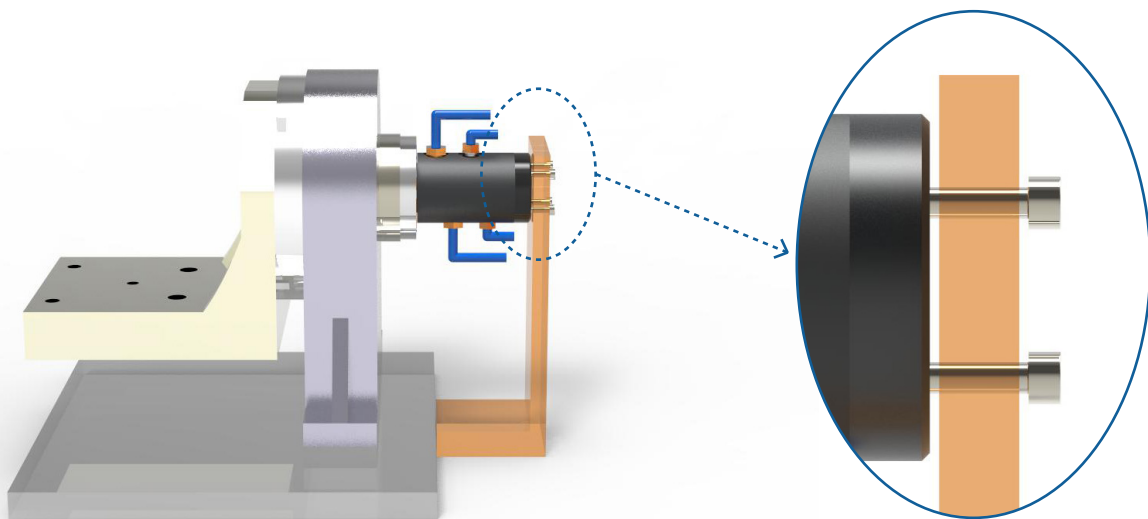
B. Parts that rotate during piping may be connected with steel pipes, but parts that do not rotate must be connected with a hose of sufficient length.

2. 旋转接头连续运转会导致内部密封件发热,因此请避免连续运转。如果需要连续性运转必须自行解决降温问题

2. When rotary joint is continuously rotating, heat is generated by the friction of seal. Therefore, provide a measure to cool the heat or use in case of intermittent rotation.

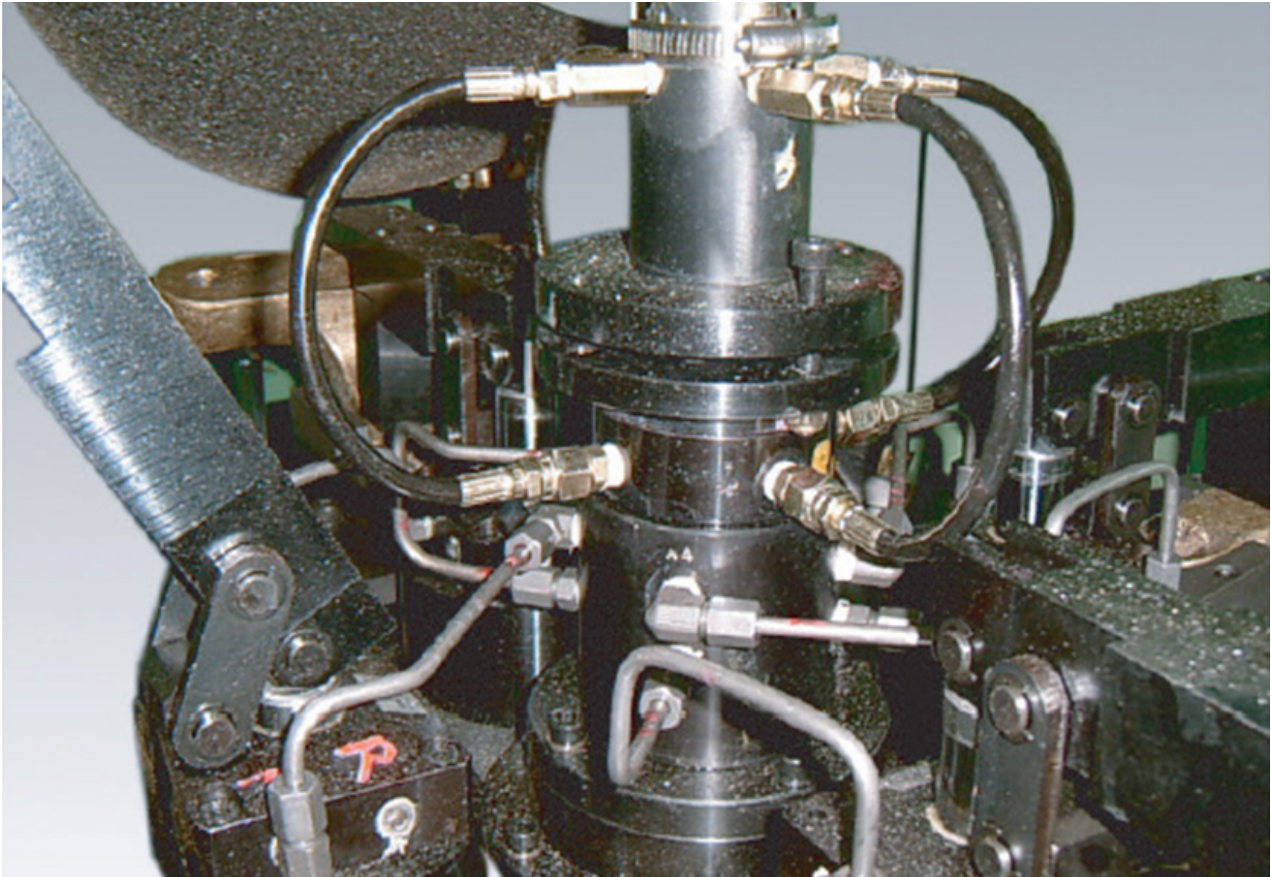
3. 牵引旋转时,参考初力矩选定马达。

3. When using the index to rotate, select the motor referring to the first torque.

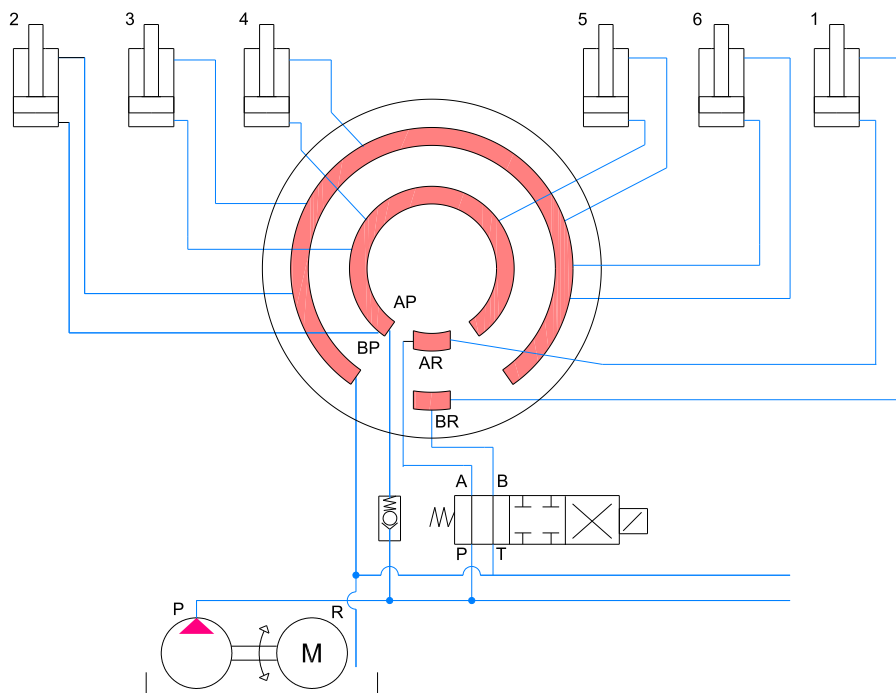


# Rotary Distributors Valve 旋转分配阀

Application 应用



Circuit Diagram 回路图





## 旋转分配阀 Rotary Distributors Valve

### 特性

1. 旋转接头上增加分配功能和阀门功能的产品, 制作利用旋转台的专用器时使用非常方便。
2. 订制品。

### Features

1. Distribution and valve functions added to rotary joint and it is very convenient to use when making a dedicated machine using rotary table.
2. Custom-made.

### 规格

1. 使用油压范围: 5~200kgf/cm<sup>2</sup>
2. 使用环境温度: 0~60°C
3. 密封材质: 专用密封

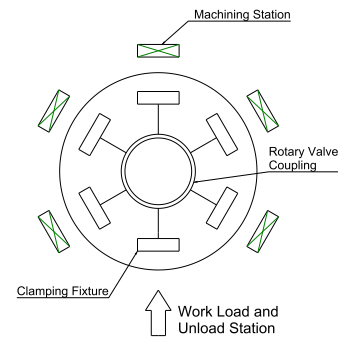
### Specifications

1. Operating Pressure : 5~200kgf/cm<sup>2</sup>
2. Operating Temperature : 0~60°C
3. Seal Material : Exclusive seal

### > RDV - XX 20

①

① 工位数



### 注意事项 Caution

不要完全固定, 固定孔加工的大一些, 使其可以移动。

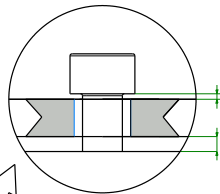
固定到旋转时能有抓力点就可以

Do not tighten fully.

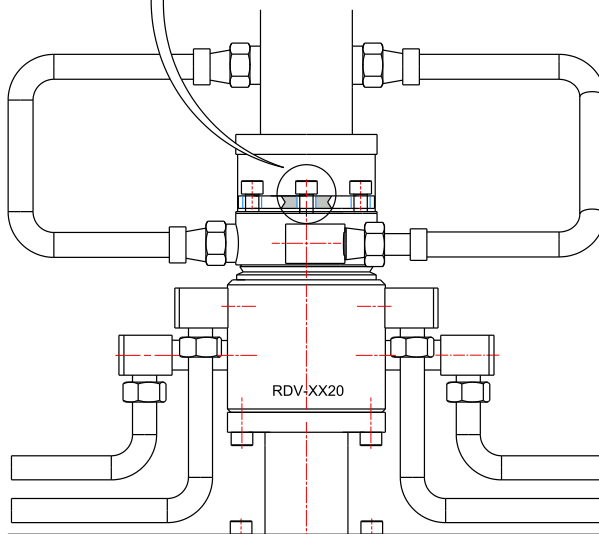
Make holes large enough to move.

Only strength requires control

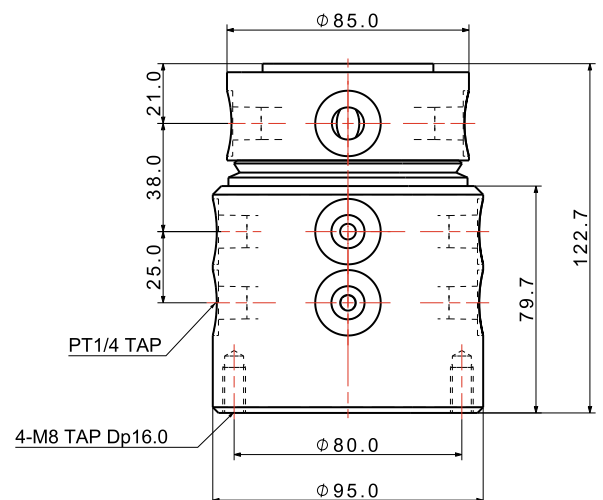
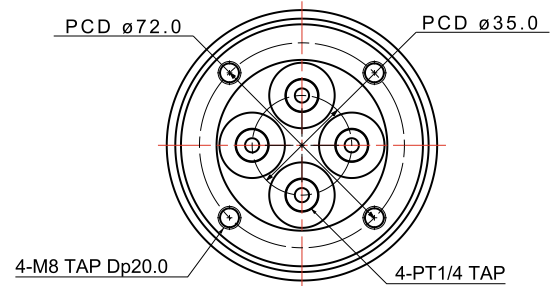
when rotating.

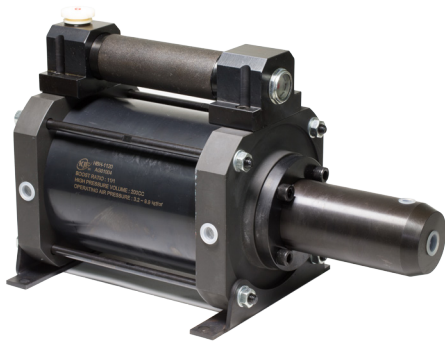


给间隙, 使其可以移动。  
Spacing is required to ensure movement.



Index Table





## 增压缸 Booster (Air-Hydraulic Power)

### 特性

1. 以低压的空气压力获得高压的液压。
2. 利用液压输出, 可以获得恒稳的力。
3. 小型轻量, 以低廉的价格可以获得液压源, 适用于简易自动化设备。

### Features

1. High oil pressure can be easily obtained with low pneumatic pressure.
2. Uniform and reliable power can be obtained at all times by using the hydraulic output.
3. It can be easily applied to simple automation because it is small and light and can obtain hydraulic source at a low price.

### 安装图

1. 为便于排气, 增压缸安装在液压缸和管道上方。
2. 一般水平安装, 特殊情况下也可垂直安装。
3. 液压管道应短而粗。
4. 空气方向控制阀进气前段应安装空气过滤器, 油雾器, 调压阀。

### Installation

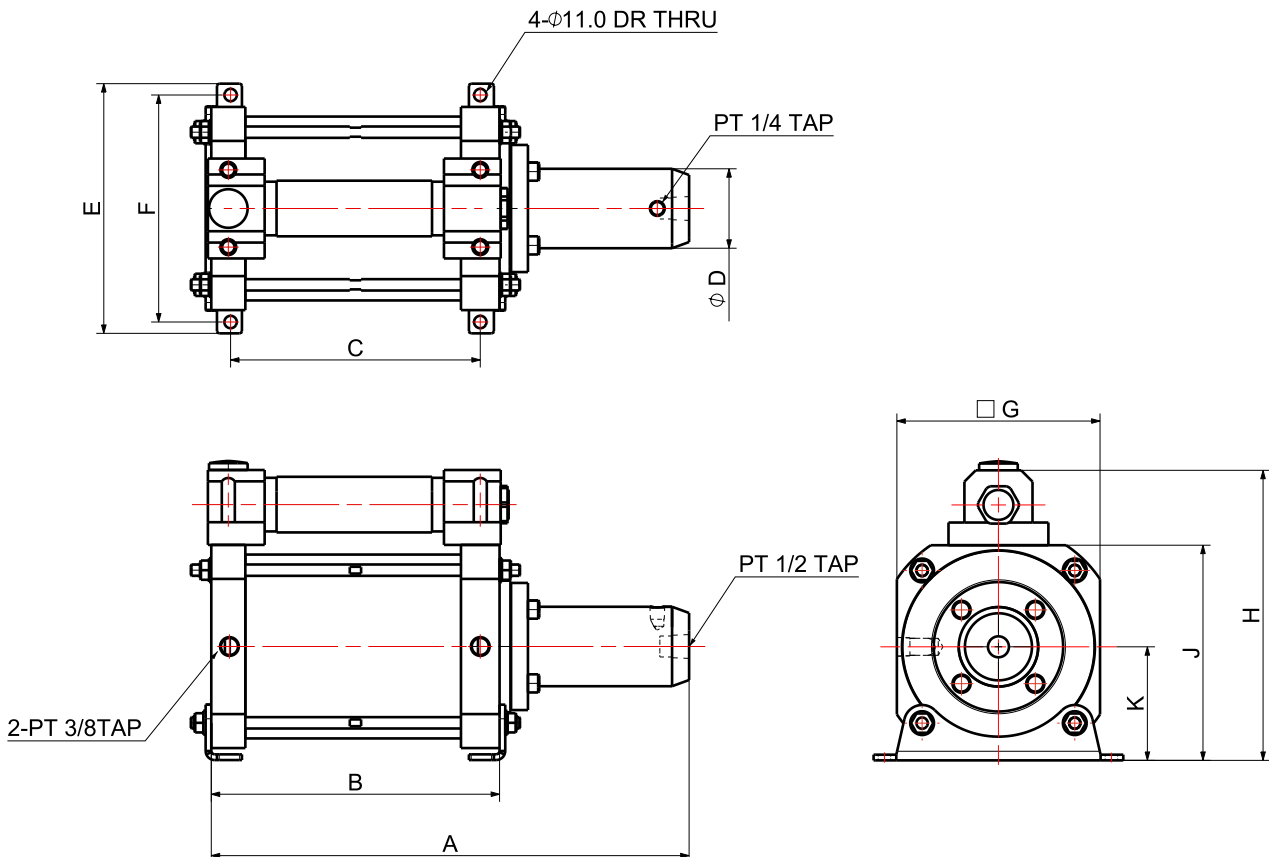
1. Booster is installed higher than hydraulic cylinders and piping to facilitate air removal.
2. The unit should be installed horizontally, but in special cases, it can be installed vertically.
3. Hydraulic piping should be thick and short.
4. Air filter, lubricator and regulator should be installed before air direction valve installation.

### Specification 规格

型号	增压比率	高压体积	操作空气压力	输出压力	重量
HBH-1108	11 : 1	80cc	3.2~9.9kgf/cm <sup>2</sup>	35~109kgf/cm <sup>2</sup>	26kg
HBH-1120	11 : 1	200cc		35~109kgf/cm <sup>2</sup>	32kg
HBH-2212	22 : 1	120cc	70~109kgf/cm <sup>2</sup>		32kg
HBH-3608	36 : 1	80cc		115~109kgf/cm <sup>2</sup>	32kg

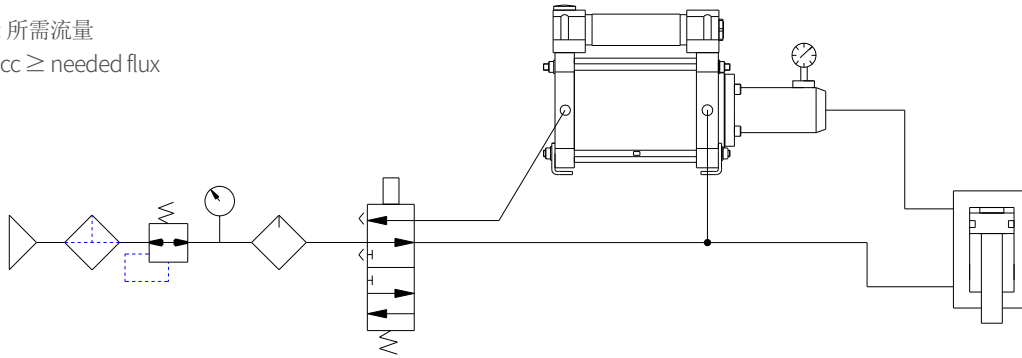
### Dimensions 尺寸

MODEL NO.	DIMENSIONS (mm)									
	A	B	C	ØD	E	F	G	H	J	K
HBH-1108	272	177	143	70						
HBH-1120	421	254	220	70	220	200	179	255.5	190	100
HBH-2212	473	280	246	55						
HBH-3608										



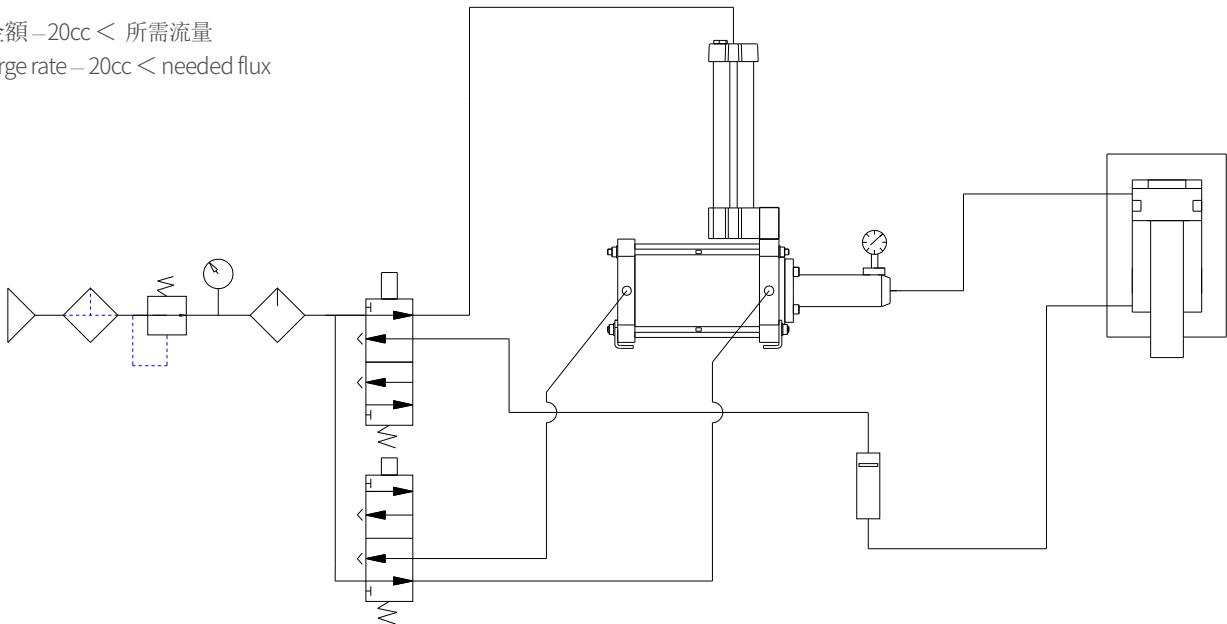
直压式 Direct compressive force

出院金額 - 20cc ≥ 所需流量  
 Discharge rate - 20cc ≥ needed flux



预压式 Pre-compressive force

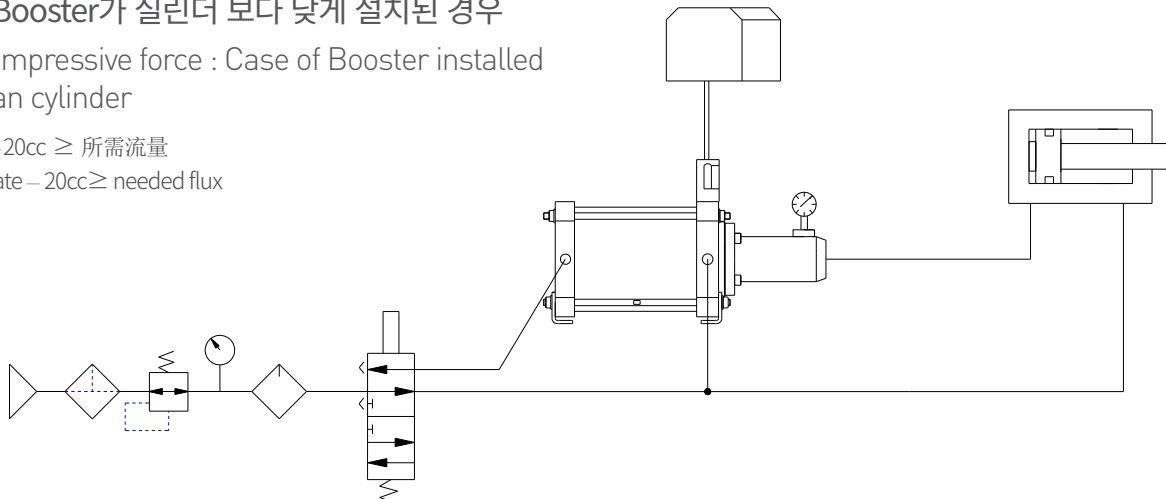
出院金額 - 20cc < 所需流量  
 Discharge rate - 20cc < needed flux



직압식 : Booster가 실린더 보다 낮게 설치된 경우

Direct compressive force : Case of Booster installed lower than cylinder

出院金額 - 20cc ≥ 所需流量  
 Discharge rate - 20cc ≥ needed flux





## 油压增强器 Hydraulic Intensifier

### 特性

1. 在主供油装置无法提升工作油的压力时, 通过油压增强器可简单实现提升液压
2. 夹具内的整体或一部分提升压力时使用。

### Features

1. This device is a simple solution when the mains pressure cannot be increased while trying to increase supply pressure to fixture.
2. All or part of fixture can be used by increasing the pressure within.

### 规格

1. 使用油压范围: 10~200kgf/cm<sup>2</sup>
2. 使用环境温度: 0~60°C

### Specifications

1. Operating Pressure : 10~200kgf/cm<sup>2</sup>
2. Operating Temperature : 0~60°C

### > HHB-02 02

① ②

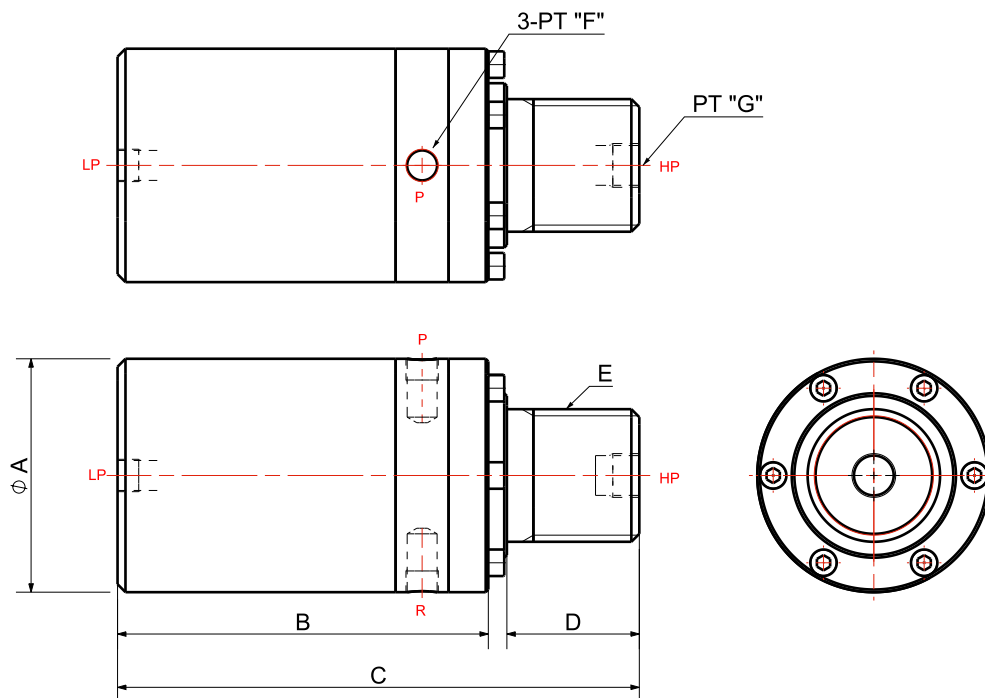
① 强化比率 ② 高压油体积

### Specification 规格

型号	强化比率	输入压力 (kgf/cm <sup>2</sup> )	高压油体积 (cm <sup>3</sup> )	最大输出压力 (kgf/cm <sup>2</sup> )
HHB-0202	2.5 : 1	10~160	20	400
HHB-0402	4 : 1	10~100	20	400
HHB-0602	6 : 1	10~60	20	400

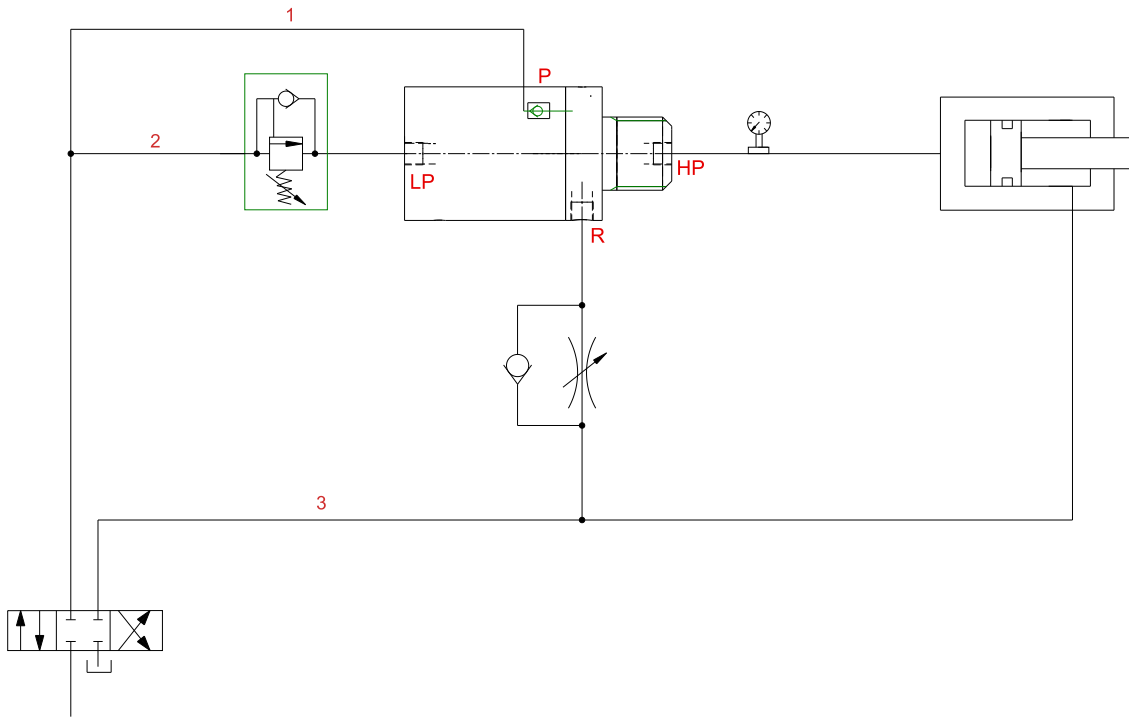
### Dimensions 尺寸

MODEL NO.	DIMENSIONS (mm)							Weight(kg)
	A(Ø)	B	C	D	E	F	G	
HHB-0202	78	121	157	30	M50 x P1.5	PT 1/4	PT 3/8	4.25
HHB-0402	88	120	160	33	M50 x P1.5	PT 1/4	PT 3/8	5.10
HHB-0602	88	140	197	50	M50 x P1.5	PT 1/4	PT 3/8	5.85

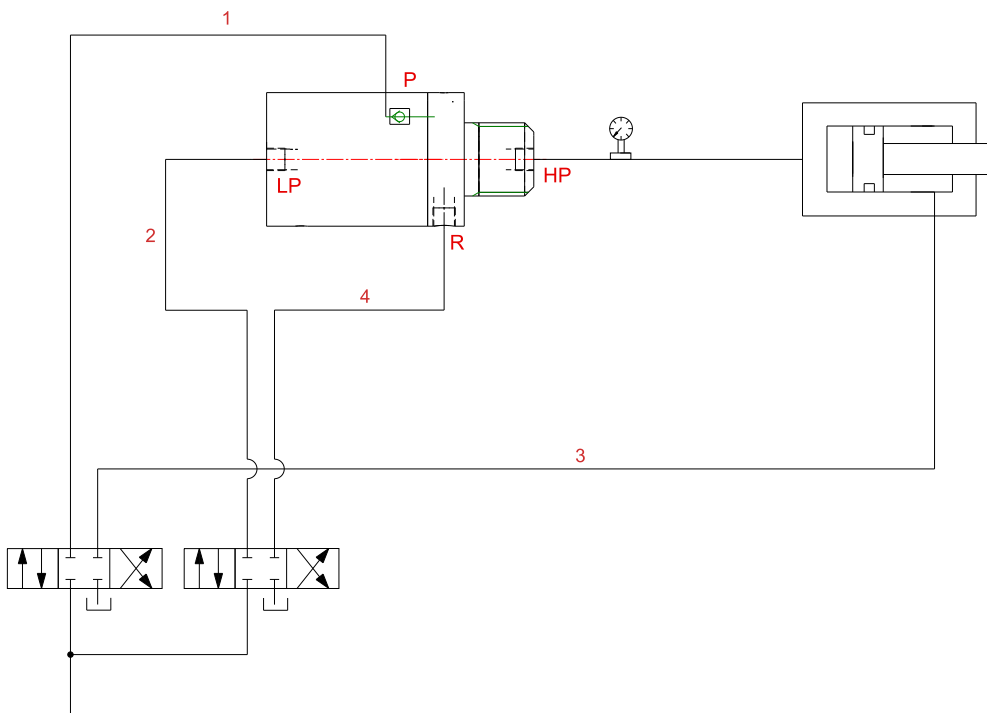


## Hydraulic Intensifier 油压增强器

Intensifier circuit diagram by Sequence valve. 油压增强器回路图通过顺序阀



Intensifier circuit diagram by Sol valve. 油压增强器回路图通过电磁阀







## 顺序阀 Sequence Valve

### 特性

1. 2个以上的分歧线路中线路内的运作顺序可通过压力控制的顺序阀实现。

### Features

1. It is a valve that is installed between two or more branch circuits and controls the operation sequence in the circuit by pressure.

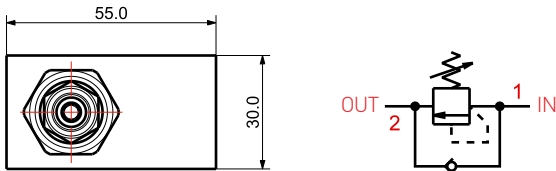
### 规格

1. 工作压力:  
 SQV-1414A/GA: 35~210kgf/cm<sup>2</sup>  
 SQV-1414B/GB: 20~105kgf/cm<sup>2</sup>  
 SQV-1414D/GD: 14~55kgf/cm<sup>2</sup>
2. 使用环境温度: 0~60°C

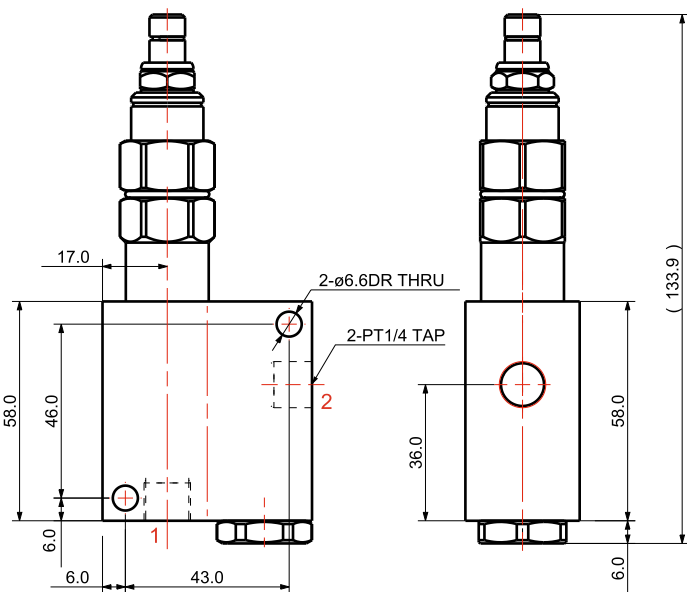
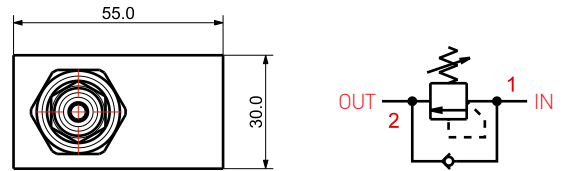
### Specifications

1. Operating Pressure :  
 SQV-1414A/GA : 35~210kgf/cm<sup>2</sup>  
 SQV-1414B/GB : 20~105kgf/cm<sup>2</sup>  
 SQV-1414D/GD : 14~55kgf/cm<sup>2</sup>
2. Operating Temperature : 0~60°C

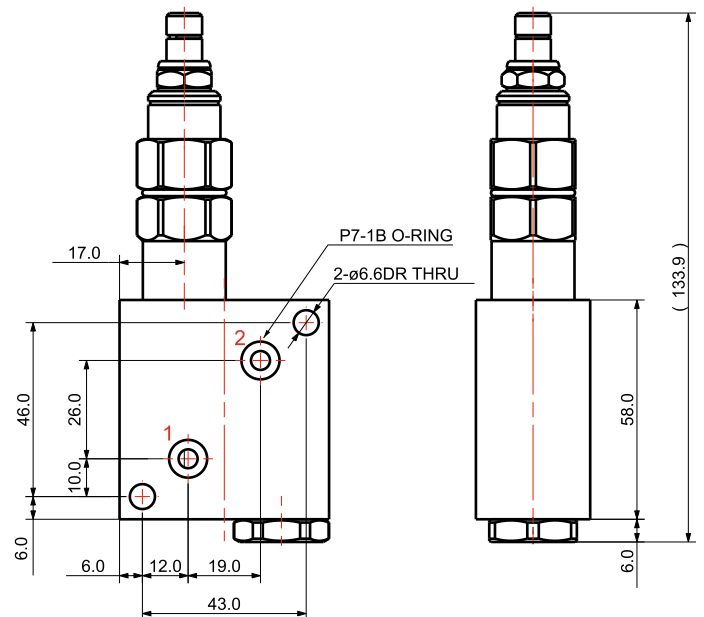
#### > Sequence Valve Standard Type (SQV-1414A/B/D) 标准型



#### > Sequence Valve Gasket Type (SQV-1414GA/GB/GD) 油路板型



Weight : 0.86kg

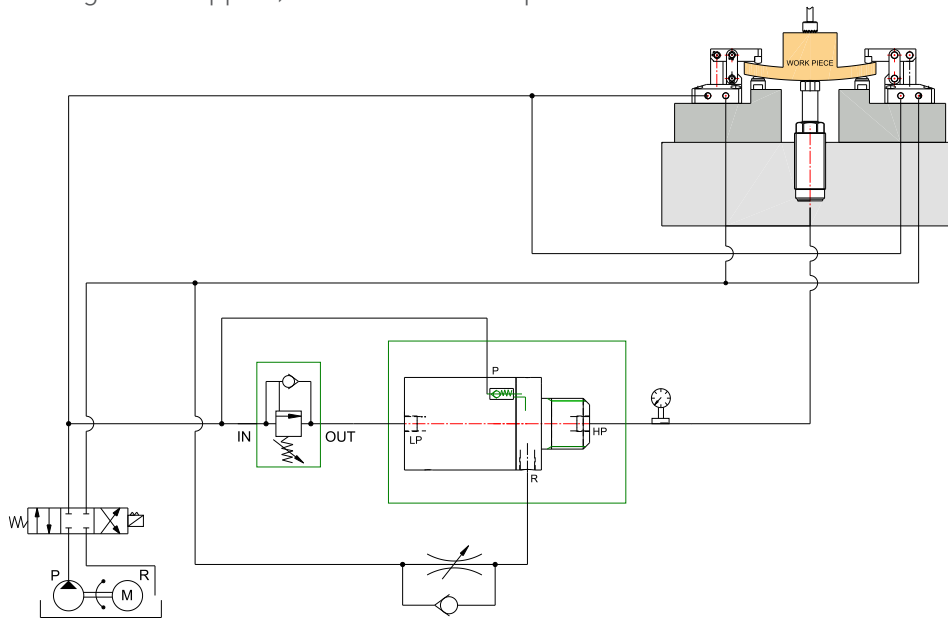


Weight : 0.89kg

## Sequence Valve 顺序阀

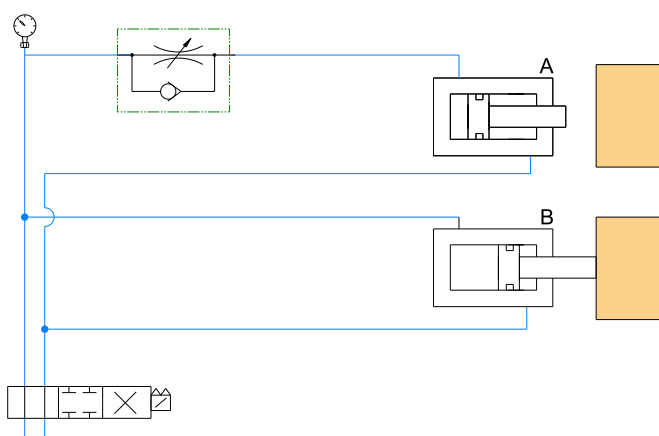
工件支撑器、油压增强器、顺序阀组合使用的线路

Circuit diagram using work support, Intensifier and Sequence valve.



流量控制阀和顺序阀的区分方法

Distinction of flow control valve and sequence valve.



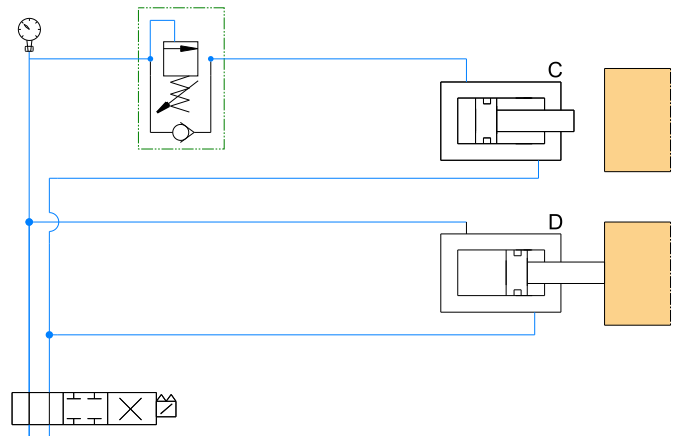
### 1. Flow Control Valve 流量控制阀

气缸B快速移动时，气缸A会缓慢移动。

气缸B触到工作物，计量器会显示约5kgf/cm<sup>2</sup>。

因线路的压力平行的原因，气缸A到达为止，气缸B在等待工作压力。

Cylinder A moves slowly during cylinder B moves fast.  
Gage shows approx. 5kgf/cm<sup>2</sup> when cylinder B contact with workpiece.  
In other words, cylinder B waits until cylinder A approaches due to equal pressure of circuit.



### 2. Sequence Valve 顺序阀

气缸D快速移动时，气缸C中不会供应液压，到达顺序阀的设定压后供应液压，随之气缸C也会移动。这时，气缸D已经发挥相当大的夹紧力。

Cylinder C has no hydraulic pressure during cylinder D moves fast.  
When set pressure of sequence valve is reached, cylinder C moves as hydraulic is provided. Cylinder D's clamping force is already very high.

流量控制阀 块型

Flow Control Valve Block Type

> SVB-0014G



> SVB-0018



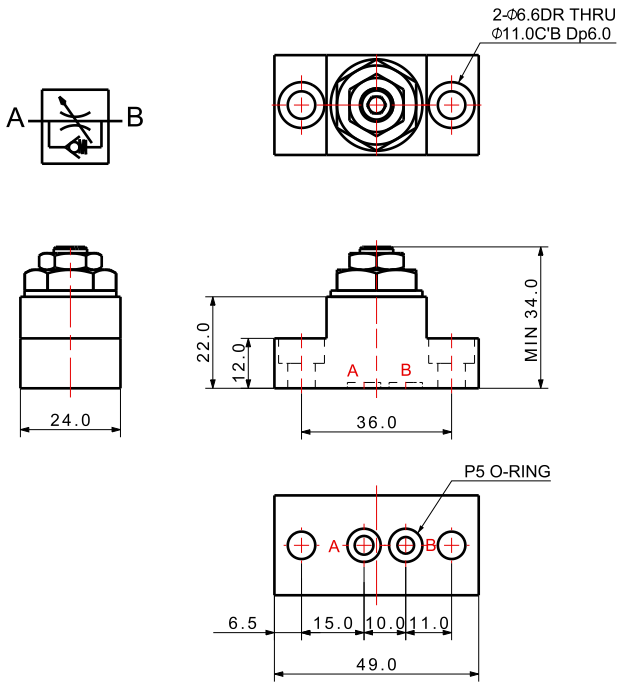
特性

1. 流量控制阀
2. 小型尺寸
3. 可排气

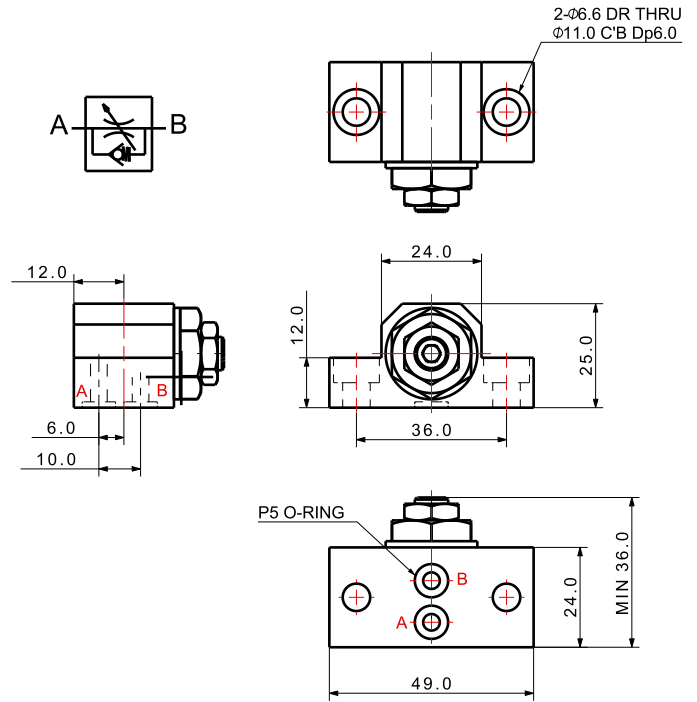
Features

1. Controlling hydraulic flow
2. Compact size
3. Air bleeding available

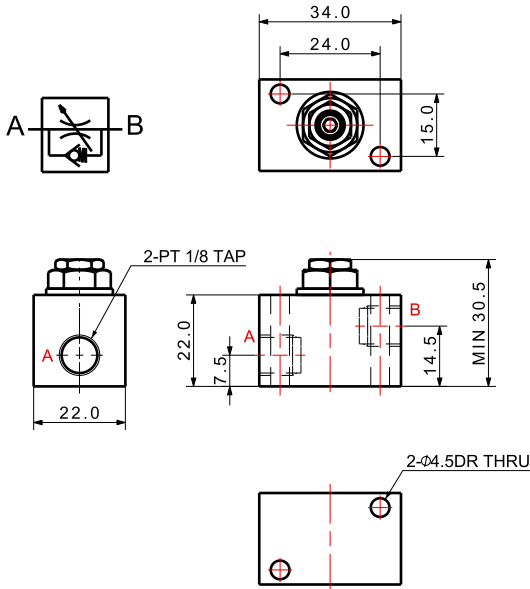
> SVB-0014G



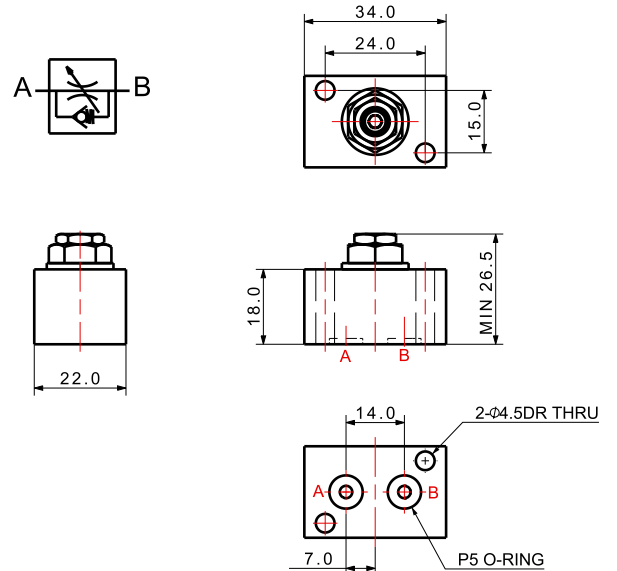
> SHB-0014G



> SVB-0018



> SVB-0018G





## 换向阀 Direction Valve

### 特性

1. 占用空间小, 可用于多种夹具。
2. 结构比较简单, 价格低廉。

### Features

1. It occupies a small space in operation and can be used various ways in jig & fixture.
2. Simple structure and inexpensive.

### 规格

1. 使用油压范围: 0~100kgf/cm<sup>2</sup>
2. 密封材质: 丁腈橡胶
3. 重量: 2.3kg

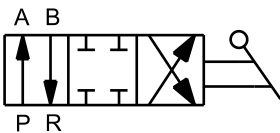
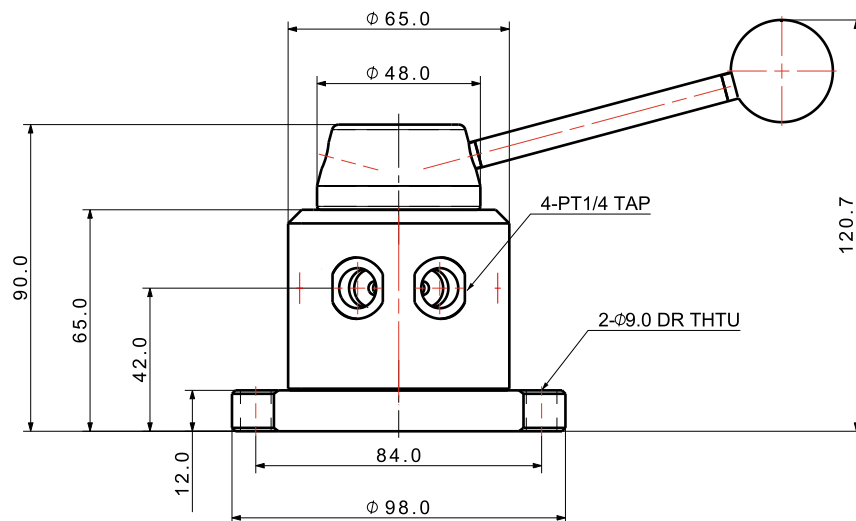
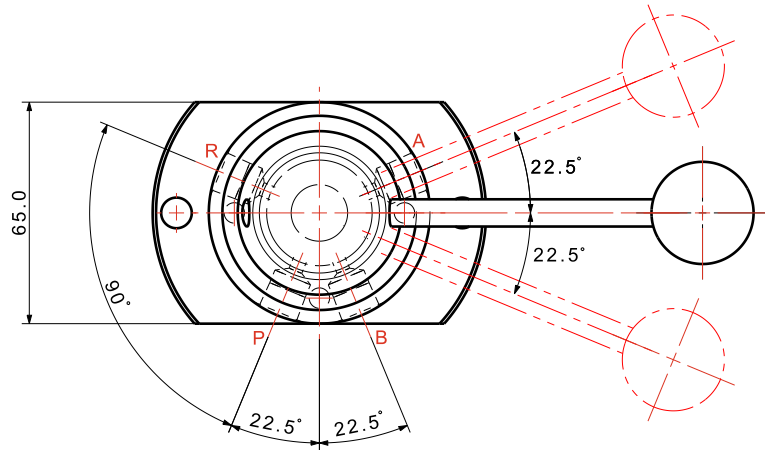
### Specifications

1. Operating Pressure : 0~100kgf/cm<sup>2</sup>
2. Seal Material : Nitrile rubber
3. Weight : 2.3kg

### > DCV - 30 40

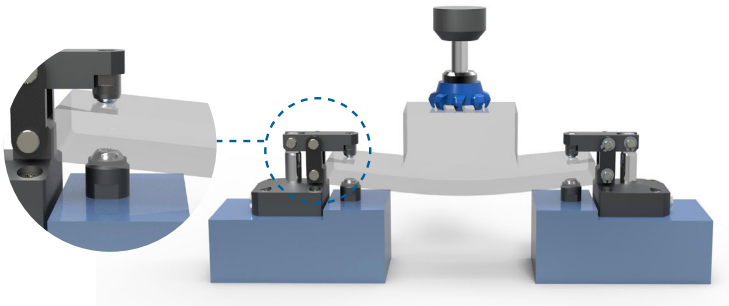
① ②

①3位 ②4通道



## Swivel Pad 转垫

### Application 应用



### 特性

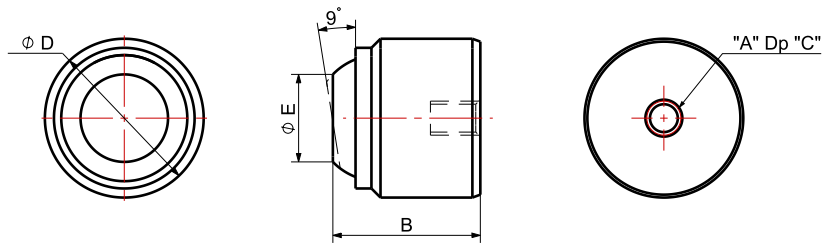
1. 用于夹紧不平整的工作物。
  2. 可以解决因夹紧导致的素材变形。
  3. 垫球以9度单位移动。
  4. 垫球表面有平面和钻石两种形状。
  5. 提高夹紧力。
  6. 适用于不规则的夹紧表面。
1. It is used for clamping an uneven workpiece.
  2. The deformation of the material caused by the clamping can be solved.
  3. Pad ball moves in 9 degrees.
  4. The pad ball surface provides two types - a flat and a diamond shape.
  5. Improves the clamping force.
  6. Corresponds to irregularly changing clamping surfaces.

> SPF/D - 08 00  
SPF/D - 08 25

① ②

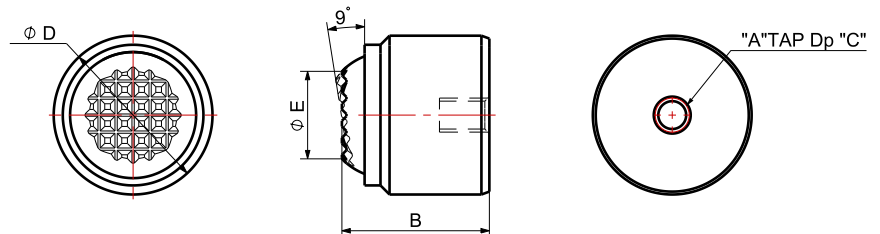
① F=平面型, D=钻石型 ② 螺丝尺寸

### Tap Type-Flat Pad



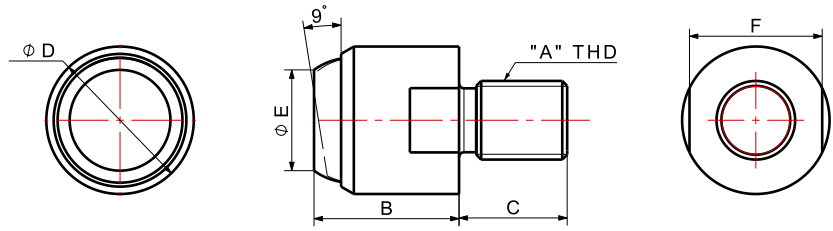
MODEL NO.	DIMENSIONS (mm)						Max Load Capacity	TYPE
	A	B	C	$\phi D$	$\phi E$			
SPF-0313	M3	13	3	14	7.7	0.8ton	Flat	
SPF-0419	M4	19	5	20	10.3	0.8ton	Flat	
SPF-0527	M5	27	7	30	20.5	7.9ton	Flat	

### Tap Type-Diamond Pad



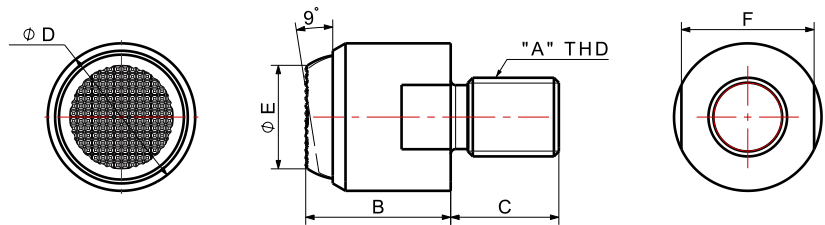
MODEL NO.	DIMENSIONS (mm)						Max Load Capacity	TYPE
	A	B	C	$\phi D$	$\phi E$			
SPD-0313	M3	13	3	14	7.7	0.8ton	Diamond	
SPD-0419	M4	19	5	20	10.3	0.8ton	Diamond	
SPD-0527	M5	27	7	30	20.5	7.9ton	Diamond	

**Bolt Type-Flat Pad**



MODEL NO.	DIMENSIONS (mm)						Max Load Capacity	Type
	A	B	C	$\phi D$	E	F		
SPF-0600	M6x1.0P	13	8	13	7.7	11	0.8ton	Flat
SPF-0800	M8x1.25P	12.5	8	14	7.7	11	0.8ton	Flat
SPF-0800-A	M8x1.25P	20.5	10	20	10.3	17	2.1ton	Flat
SPF-0815	M8x1.25P	12.5	15	14	7.7	11	0.8ton	Flat
SPF-0825	M8x1.25P	12.5	25	14	7.7	11	0.8ton	Flat
SPF-1000	M10x1.5P	20.5	10	20	10.3	17	2.1ton	Flat
SPF-1015	M10x1.5P	20.5	15	20	10.3	17	2.1ton	Flat
SPF-1030	M10x1.5P	20.5	30	20	10.3	17	2.1ton	Flat
SPF-1200	M12x1.75P	20.5	12	20	10.3	17	2.1ton	Flat
SPF-1235	M12x1.75P	20.5	35	20	10.3	17	2.1ton	Flat
SPF-1600	M16x2.0P	29.5	16	30	20.5	27	7.9ton	Flat
SPF-1640	M16x2.0P	29.5	40	30	20.5	27	7.9ton	Flat

**Bolt Type-Diamond Pad**



MODEL NO.	DIMENSIONS (mm)						Max Load Capacity	Type
	A	B	C	$\phi D$	E	F		
SPD-0600	M6x1.0P	13	8	13	7.7	11	0.8ton	Diamond
SPD-0800	M8x1.25P	12.5	8	14	7.7	11	0.8ton	Diamond
SPD-0800-A	M8x1.25P	20.5	10	20	10.3	17	2.1ton	Diamond
SPD-0815	M8x1.25P	12.5	15	14	7.7	11	0.8ton	Diamond
SPD-0825	M8x1.25P	12.5	25	14	7.7	11	0.8ton	Diamond
SPD-1000	M10x1.5P	20.5	10	20	10.3	17	2.1ton	Diamond
SPD-1015	M10x1.5P	20.5	15	20	10.3	17	2.1ton	Diamond
SPD-1030	M10x1.5P	20.5	30	20	10.3	17	2.1ton	Diamond
SPD-1200	M12x1.75P	20.5	12	20	10.3	17	2.1ton	Diamond
SPD-1235	M12x1.75P	20.5	35	20	10.3	17	2.1ton	Diamond
SPD-1600	M16x2.0P	29.5	16	30	20.5	27	7.9ton	Diamond
SPD-1640	M16x2.0P	29.5	40	30	20.5	27	7.9ton	Diamond

> CP-10



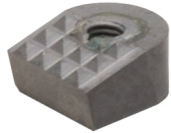
> CP-31



> CP-32



> CP-12



> CP-13



## Tungsten Carbide Gripper Pad 碳化钨垫

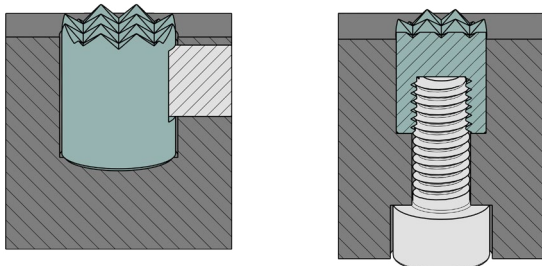
### 特性

由碳化钨材质做成, 比起一般材质, 夹紧力提高30%。

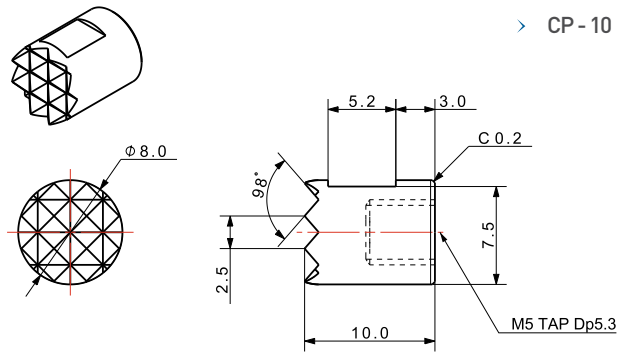
### Features

The material made of tungsten carbide improves the clamping force by 30% compared to general pads.

### Application 应用

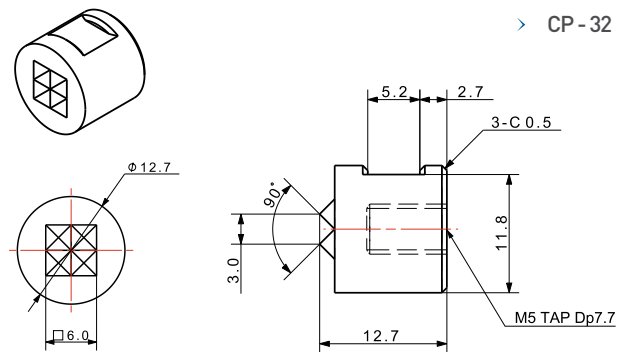
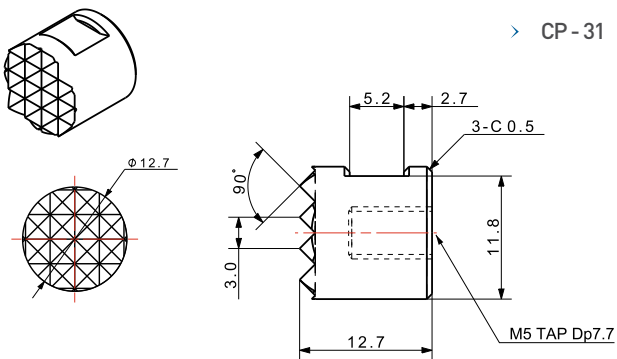


> CP-10



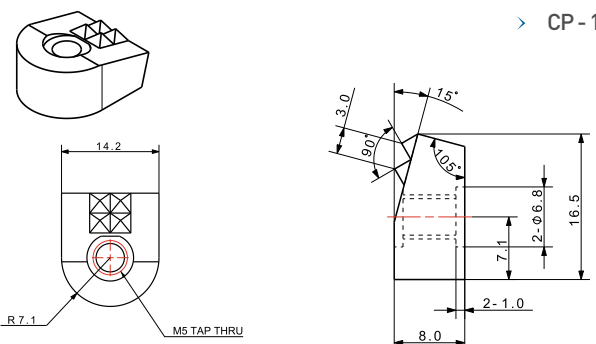
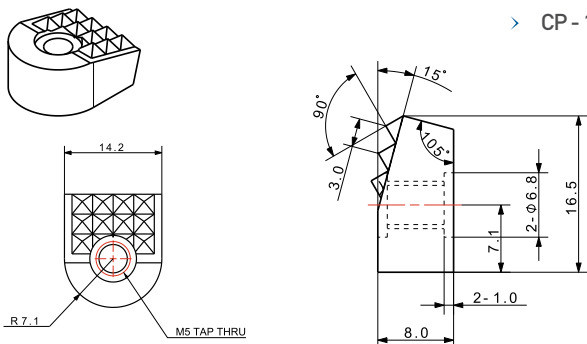
> CP-31

> CP-32



> CP-12

> CP-13



> CP-42



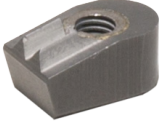
> CP-40



> CP-21



> CP-41



> CP-22



> CP-43



碳化钨垫

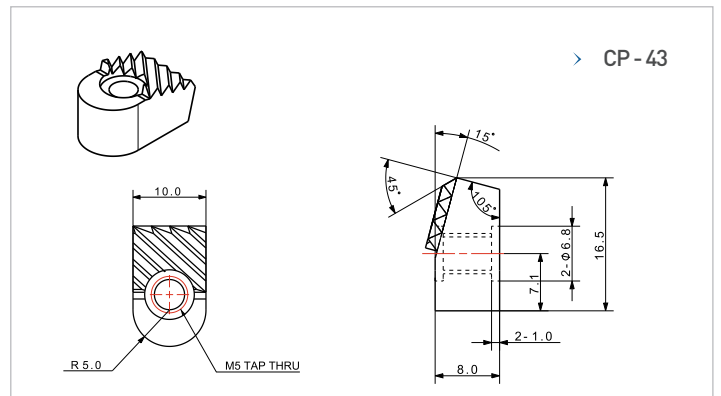
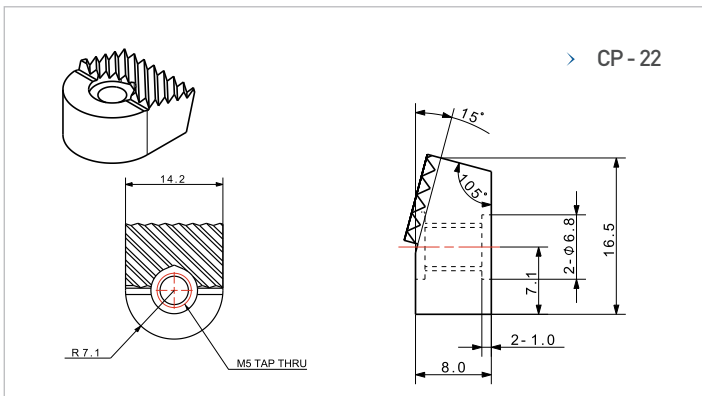
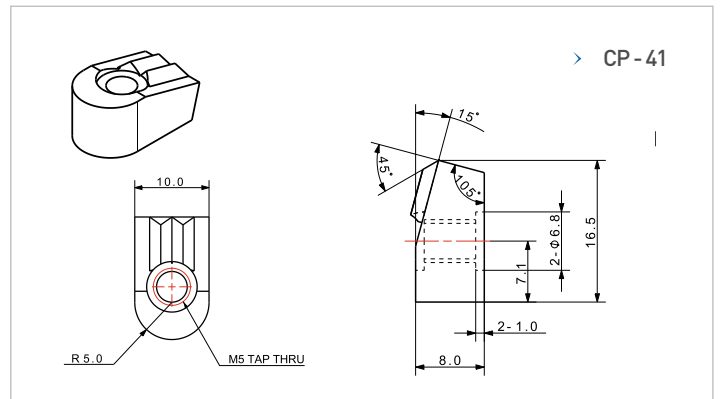
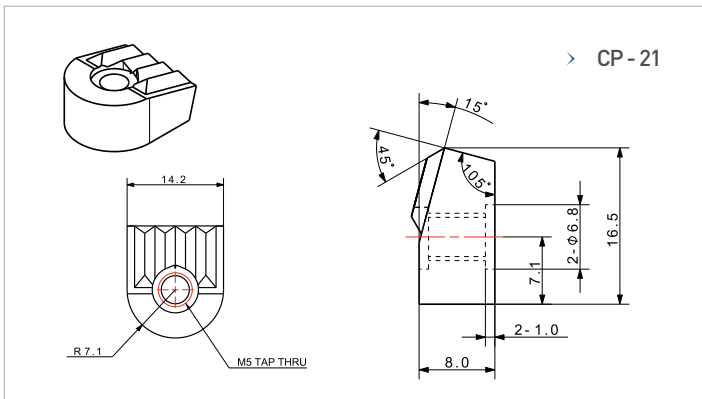
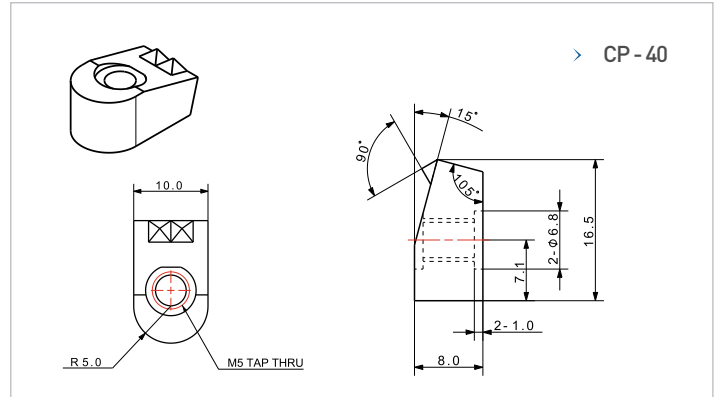
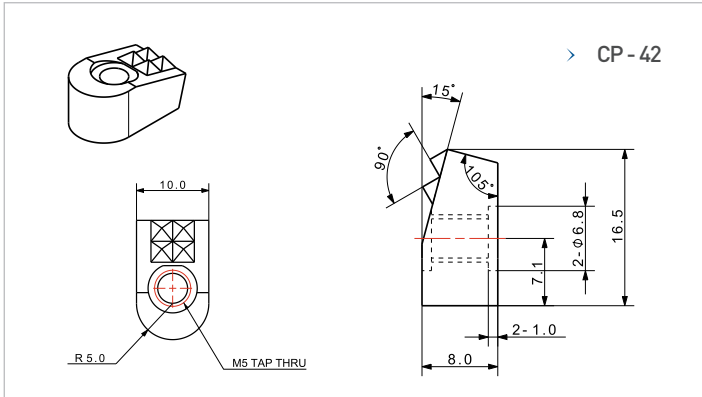
Tungsten Carbide Gripper Pad

特性

由碳化钨材质做成, 比起一般材质, 夹紧力提高30%。

Features

The material made of tungsten carbide improves the clamping force by 30% compared to general pads.





## 安装底座配件 Mounting Base Accessories

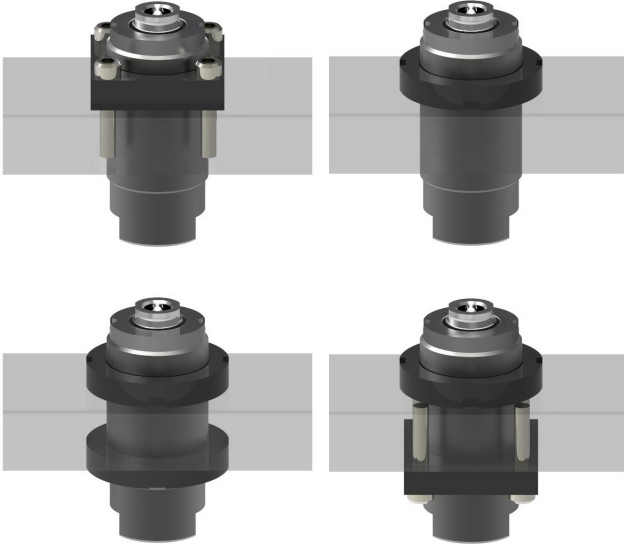
### > MBR/S - 20 10

① ② ③

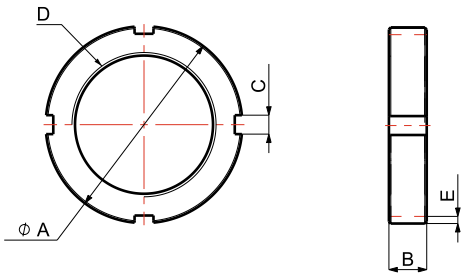
① R=圆, S=方 ② 螺纹直径 ③ 厚度



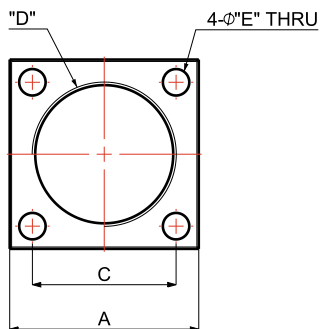
#### Application



### > MBR - □□□□



### > MBS - □□□□



#### Dimensions 尺寸

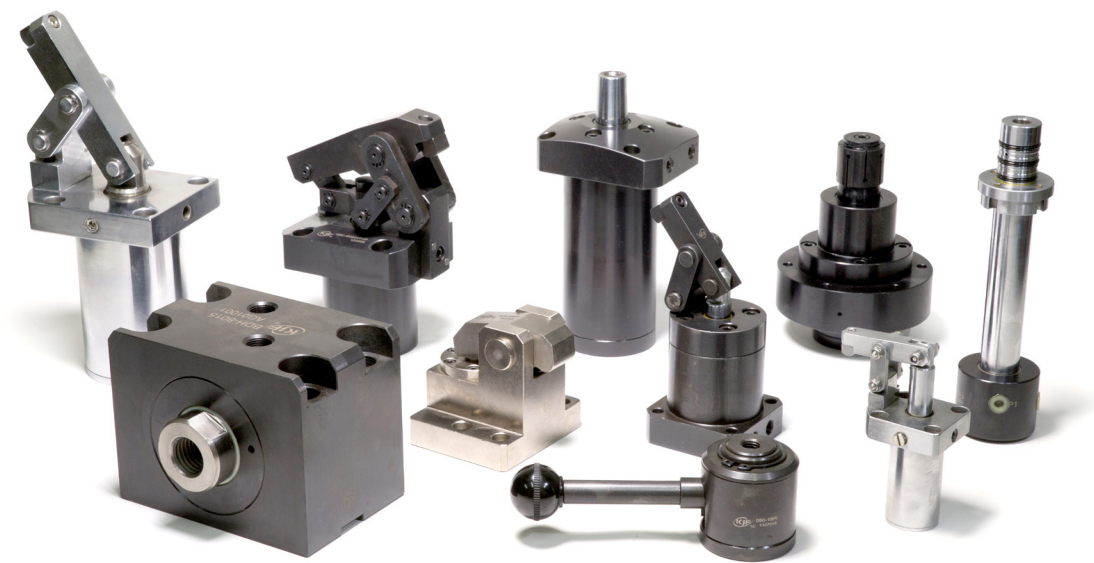
MODEL NO.	DIMENSIONS (mm)				
	ØA	B	C	D	E
MBR-2010	32	10	4	M20 x P1.0	2.0
MBR-2110	32			M20 x P1.5	
MBR-2510	38		M25 x P1.5		
MBR-2810	40		M28 x P1.5		
MBR-3010	45		M30 x P1.5		
MBR-3210	45		M32 x P1.5		
MBR-3610	52		M36 x P1.5		
MBR-3810	52		M38 x P1.5		
MBR-4010	58		M40 x P1.5	2.5	
MBR-4510	65		M45 x P1.5		
MBR-4811	70	M48 x P1.5			
MBR-5011	70	11	M50 x P1.5	3.0	
MBR-6011	80		M60 x P1.5		
MBR-6111	80	12	M60 x P2.0	3.5	
MBR-6512	85		M65 x P2.0		
MBR-7012	92	15	M70 x P2.0	4.0	
MBR-8015	105		M80 x P2.0		
MBR-9016	120	16	10	M90 x P2.0	

MODEL NO.	DIMENSIONS (mm)				
	ØA	B	C	D	E
MBS-2012	30	12	22	M20 x P1.0	4.5
MBS-2112	30			M20 x P1.5	
MBS-2512	38		28	M25 x P1.5	5.5
MBS-2812	40		29	M28 x P1.5	6.7
MBS-3012	42	15	32	M30 x P1.5	7.0
MBS-3212	42			M32 x P1.5	
MBS-3615	45		36	M36 x P1.5	
MBS-3815	50	38	M38 x P1.5		
MBS-4012	50	12	40	M40 x P1.5	9.0
MBS-4518	60	18	45	M45 x P1.5	
MBS-4820	60	20	48	M48 x P1.5	
MBS-5012	65	12	50	M50 x P1.5	
MBS-6015	75	15	60	M60 x P1.5	11.0
MBS-6025	75			M60 x P1.5	
MBS-6125	75	25	65	M60 x P2.0	13.0
MBS-6525	80			M65 x P2.0	
MBS-7025	90		70	M70 x P2.0	
MBS-8025	100	80	M80 x P2.0		
MBS-9025	110	90	90	M90 x P2.0	

## Customized Clamp 订单生产

根据工况, 可定制非标品

We provide customized shapes and sizes according to your work situation.



## Concept Map of Hydraulic & Pneumatic Clamping Systems (概念圖)





## 质量保证 Warranty

### 质保期 Warranty period

质保期是从我司出货以后一年六个月或开始使用后一年。(选择最近的时间)

The warranty period is 18 months after shipment from the factory or 12 months from the start of use, whichever is earlier.

### 质保范围

属于以下情况排除在质保对象外。

1. 没有进行规定的维修、检查而发生故障时。
2. 因客户错误使用而发生故障时。
3. 故障原因不源自我司时。
4. 其他因自然灾害发生故障时。
5. 消耗性零件及零件更换费用。
6. 因产品的故障诱发的损失。

### Warranty range

The following items are not covered under warranty.

1. Malfunction caused by failure to perform maintenance or inspection.
2. Malfunction due to misuse of the user.
3. If the cause of the malfunction is not attributable to the company.
4. Failure caused by other natural disasters.
5. Replacement of consumable parts and costs.
6. Damage caused by product failure.

### 用户

Users



## Toggle Clamps

- 肘节夹钳产品也可以购买。
- Toggle Clamps are available to be purchased.



Vertical Type



Horizontal Type



Push / Pull Type



Latch Type



Heavy Duty Weldable Type



Air Type