

Angular Lever Gripper

Characteristics

- The elliptic cylinder, which assures large cylinder area, has realized both compact size and large gripping power. The Angular Lever Gripper is also light in weight thanks to the employment of a special engineering plastic.
- (Plastic: HC15, and 20 only)

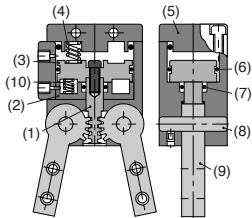
Specifications

Model	HC15□P	HC20□P	HC20□D	HC30□D
Actuating method	Double acting type, Single acting type			
Fluid medium	Compressed air (oilless)			
Operating pressure range	29 ~ 87psi (0.2 ~ 0.6MPa)		29 ~ 102psi (0.2 ~ 0.7MPa)	
Operating temp. range	14 ~ 140°F (-10 ~ 60°C) (no freezing)			
Port size	M5×0.8mm			
Cylinder sectional area	2.1cm²	4.3cm²		8.8cm²
Repeated accuracy	±0.1mm (at the center of the jaws)			
Cycle per minute	100C.P.M			
Option	With bracket (B)	○	○	—
	With Sensor (S)	○	○	○

Sensor Specification

Power voltage	12 ~ 24VDC
Power consumption	Max. 15mA
Output	NPN transistor open collector Max. current: 100mA Applied voltage: 30VDC max.
Operation indicator lamp	Red LED (Lights when turned on)
Ambient	14 ~ 131°F (-10 ~ +55°C)
Cable	0.085Q 3 cores, 1m

Construction



No	Parts	Material
(1)	Rack	chromium-molybdenum steel
(2)	Cylinder	polyamide resin or zinc die casting
(3)	Piston	POM
(4)	Spring	S.W.P. single acting normally open type
(5)	Top cover	aluminium die casting
(6)	Piston packing	NBR
(7)	Rod packing	NBR
(8)	Fulcrum shaft	stainless steel
(9)	Jaw	chromium-molybdenum steel
(10)	Spring	S.W.P. single acting normally close type

Caution

- Use clear and dry air as supply air to Gripper.
- By grabbing as softly as possible, Gripper works accurately and repeat accuracy is stable.
- Avoid use having lateral load on jaws part.
- Use lightest and shortest possible finger tool attached to jaws part.

Model Designation (Example)

HC 15 A P -S
(1) (2) (3) (4)

(1) Cylinder area

Code	15	20	30
Cylinder area	2.1cm ²	4.3cm ²	8.8cm ²

(2) Opening-close mode

Code	A	B	C
Mode	Double-acting	Single-acting normally open	Single-acting normally closed

(3) Body material

Code (material)	P	D
Low Type Gripper Code	(plastic)	(die cast)
HC15	○	—
HC20	○	○
HC30	—	○

* Finger tool type: Please add "X" in the end of model code of HP20B. Otherwise, please enter PX or DX.

(4) Option

Code (material)	-B	-S	No code
Low Type Gripper Code	(with bracket)	(with sensor (with bracket))	(without option)
HC15□P	○	○	
HC20□P(X)	○	○	
HC20□D	—	○	
HC30□D	—	○	



The products listed in this page are ECO-friendly products.

* Please refer to page 4 for the details of ECO-friendly products.

HC	Model	HC	Model
Without Option	HC15□P HC20□P HC20□D HC30□D	With Finger	HC20BPX HC20BDX
With Bracket	HC15□P-B HC20□P-B	With Finger and Bracket	HC20BPX-B HC20BDX-B
With Sensor	HC15□P-S HC20□P-S HC20□D-S HC30□D-S	With Finger and Sensor	HC20BPX-S HC20BDX-S



Cautions

- For (2), please select an open-close mode of gripper.
- Build-to-order production



Package specification

1 pc. in a bag



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Option Parts

Model of Sensor Set (*1)

Model	Gripper type	Note
D0002	HC15P	• Set Item
D0102	HC20P	Sensor, Sensor Fixing Screw,
D0132	HC20D	Limit Dog, Dog Fixing Screw,
D0202	HC30D	Sensor Bracket, Sensor
D0162	HC20BPX	Bracket Fixing Screw
	HC20BDX	

Model of Sensor only (*1)

Model	Gripper type	Note
D000907	All types	Sensor 1 pc. + Fixing Screw 1 pc.

Model of Limit Dog Fixing Screw for Sensor

Model	Gripper type	Note
/100613	HC15P	For fixing, 2 pcs. required.
/100813	HC20P	
	HC20D	
/101015	HC30D	

Model of Limit Dog for Sensor (Dog only)

Model	Gripper type	Note
D000903	HC15P	
D010903	HC20P	
D013903	HC20D	
/080205	HC20BPX	Both required
/080808	HC20BDX	
D020903	HC30D	

Model of Sensor Bracket only

Model	Gripper type	Note
D000902	HC15P	Bracket with sensor mount only
D010902	HC20P	
D013902	HC20D	
D020902	HC30D	
D016902	HC20BPX	
	HC20BDX	

Model of Sensor Fixing Plain Washer

Model	Gripper type	Note
/500715	HC20BPX	For fixing 1 pc. required.
	HC20BDX	

Model of Sensor Bracket Fixing Screw

Model	Gripper type	Note
/110613	HC15P	For fixing, 4 pcs. required.
/110815	HC20P, HC30D	
/000304	HC20D	For fixing, 2 pcs. required.
/110815	HC20BPX	For fixing, 2 pcs. required.
	HC20BDX	

Model of Bracket only (not a sensor mount type) (*2)

Model	Gripper type	Note
D000901	HC15P	Fixing Screw Size: M3x0.5, Depth 5mm, 4 holes
D010901	HC20P	Fixing Screw Size: M4x0.7, Depth 6mm, 4 holes



Cautions

- *1. The sensor is NPN Open collector output.
 *2. No screw is included. Please prepare Fixing Screw by yourself.



Package specifications

- 1 pc. in a bag: Limit Dog Fixing Screw for Sensor
 Limit Dog for Sensor (Dog only)
 Sensor Fixing Plain Washer
 Sensor Bracket only
 Sensor Bracket Fixing Screw
 Bracket only (not a sensor mount type)
 1 set / bag: Sensor Set
 Sensor only