

Angular Lever Gripper

Characteristics

- The Angular Lever Gripper has realized both compact size and large gripping power by applying a compact elliptic cylinder.
- Lightweight plastic type and durable die-cast alloy type are available.
- As for e sensor equipped type, the jaw operation and the clamping condition can be simply checked by the LED which goes on and off. The proximity switch can be moved in the lateral direction. By adjusting the location of the proximity switch according to the work pieces, the work piece's clamping condition can be checked.
- Being provided with finger tools, manufacturing of attachments is not necessary. It is most suitable for taking out plastic moldings (spool). (With Finger type)

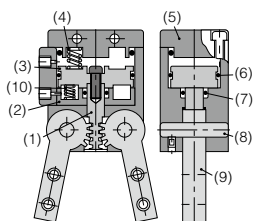
Specifications

Series	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	2.1cm ²	4.3cm ²		8.8cm ²
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	0.085SQ 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	aluminum 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

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 (plastic)	D (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 (with bracket)	-S (with sensor (with bracket))	No code (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 Without Option 	Model code HC15 ② P HC20 ② P HC20 ② D HC30 ② D	HC With Finger 	Model code HC20BPX HC20BDX
HC With Bracket 	Model code HC15 ② P-B HC20 ② P-B	HC With Finger and Bracket 	Model code HC20BPX-B HC20BDX-B
HC With Sensor 	Model code HC15 ② P-S HC20 ② P-S HC20 ② D-S HC30 ② D-S	HC With Finger and Sensor 	Model code HC20BPX-S HC20BDX-S



Caution

- * ② : Replaced with Opening-close mode code.
- * Make-to-order production



Package specification

1 pc. in a bag

Detailed Safety Instructions

- 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.



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Option Parts

Model code of Sensor Set (*1)

Model code	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 code of Limit Dog for Sensor (Dog only)

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

Model code of Sensor Fixing Plain Washer

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

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

Model code	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

Model code of Sensor only (*1)

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

Model code of Limit Dog Fixing Screw for Sensor

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

Model code of Sensor Bracket only

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

Model code of Sensor Bracket Fixing Screw

Model code	Gripper type	Note
/110613	HC15P	For fixing, 4 pcs. required.
/110815	HC20P, HC30D	
/000304	HC20D	For fixing, 2 pcs. required.
/000405	HC20BPX	For fixing, 2 pcs. required.
	HC20BDX	



Caution

- *1. The sensor is NPN Open collector output.
- *2. No screw is included. 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