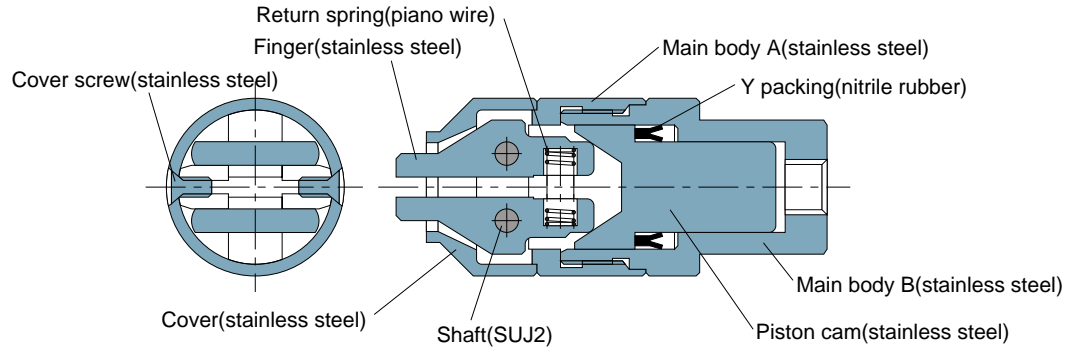


Normally Closed, Single Acting Lever Gripper Opening Gripper Series

Features

- This is another series of stainless steel air gripper models featuring light weight and miniature size.
- No dedicated fingers are necessary for works of simple shapes.
- The work stopper assures stable gripping.
- The floating type makes more effective use of the work stopper, and prevents damage due to bumping.

Construction



Specification

Cylinder bore	φ8mm(0.31in.)	φ11mm(0.43in.)
Gripping force at 0.5MPa fingers in parallel	0.022lbf (0.1N)	0.061lbf (0.27N)
Service pressure range	28.4~100psi (0.2~0.7MPa)	
Service temperature range	32~140°F(0~60°C) (No freezing)	
Lubrication	Not required	

Model Designation(Example)

Model Designation: **CHM 08 B A 06 H**

(1) Type
(2) Cylinder bore
(3) Gripper action
(4) Holder type
(5) Finger size
(5) Finger type

Code	08	11
Bore	φ8mm(0.31in.)	φ11mm(0.43in.)

B : Single-acting opening Gripper(normally closed)

H : For work with round hole
C : For work with groove

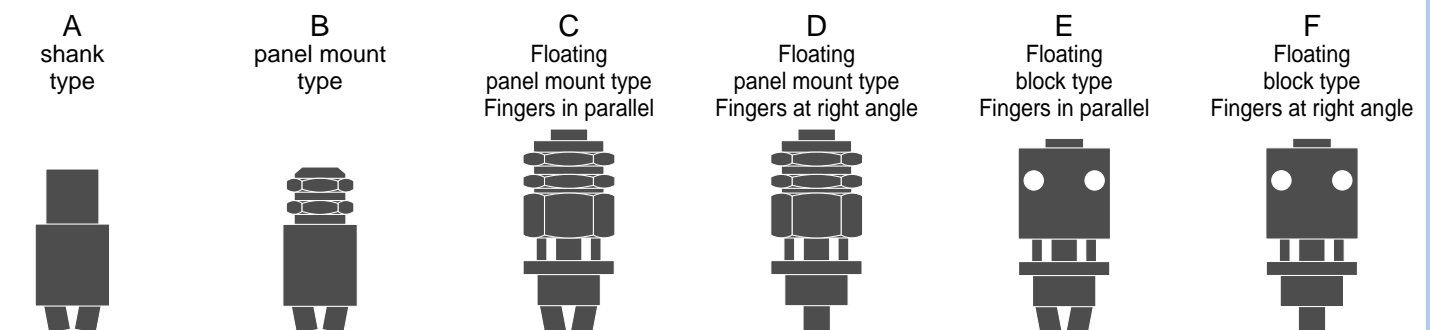
*Seeing the table below, select fingers of form and size appropriate to work.

■ Finger H Type (Work with round hole)

Code	02	03	04	06	08	10	12
Hole dia.	(mm)	φ2~3	φ3~4	φ4~6	φ6~8	φ8~10	φ10~12
	(inch)	0.08-0.12	0.12-5/32	5/32-0.24	0.24-0.31	0.31-0.39	0.39-0.47

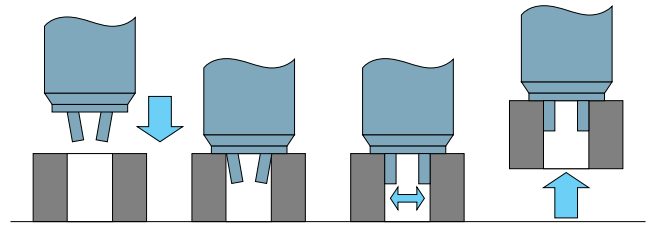
■ Finger C Type (Work with Groove hole)

Code	03	05	06	07	08	10	12
Groove dimension	(mm)	3~5	5~7	6~8	7~9	8~10	10~12
	(inch)	0.12-0.2	0.2-0.28	0.24-0.31	0.28-0.35	0.31-0.39	0.39-0.47



Application example of work stopper

- For stable work transport, grip the work with the work stopper held in contact with it. In this state, light press-fitting can also be accomplished.
- When the cylinder thrust is too large or unstable, use of the floating-type holder will achieve stable gripping.

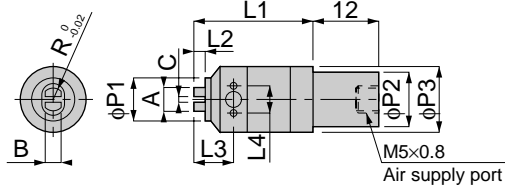


⚠ Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Actuators" on page 518 and "Common Safety Instructions for Lever Grippers" on page 519.

CHM B

Shank Type

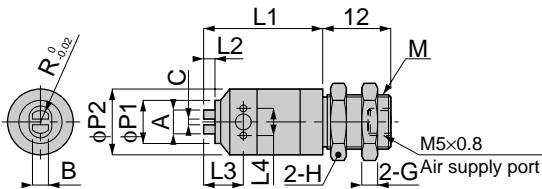


unit:mm

Model	Work size	R	A	B	L1	L2	L3	L4	φP1	φP2	φP3	C	Mass (g)
CHM 08BA03C	Groove width 3-5	-	3	3	22	2	7.5	5	8	10	12	1	18
CHM 08BA05C	Groove width 5-7		5	4		3			10				
CHM 08BA07C	Groove width 7-9		7	4		4			12				
CHM 08BA02H	Hole φ2~3	R1	2	1.6	22	1	7.5	5	5	10	12	0.5	18
CHM 08BA03H	Hole φ3~4	R1.5	3	2		1.5			6			18.5	
CHM 08BA04H	Hole φ4~6	R2	4	3		2			8			1	18
CHM 08BA06H	Hole φ6~8	R3	6	4	3	10							
CHM 08BA08H	Hole φ8~10	R4	8		4	4	12	18.5					
CHM 11BA06C	Groove width 6-8	-	6	6	28	4	10	6	12	12	16	1.5	37
CHM 11BA08C	Groove width 8-10		8			5			14				
CHM 11BA10C	Groove width 10-12		10			6			16				
CHM 11BA12C	Groove width 12-14		12			6		10	12	16	1.5	38	
CHM 11BA06H	Hole φ6~8	R3	6	4	28	3	10	6	10	12	16	1.5	37
CHM 11BA08H	Hole φ8~10	R4	8	4		4			12				
CHM 11BA10H	Hole φ10~12	R5	10	6		5			14				
CHM 11BA12H	Hole φ12~14	R6	12		6	6		16				1.5	38

CHM B

Panel Mount Type



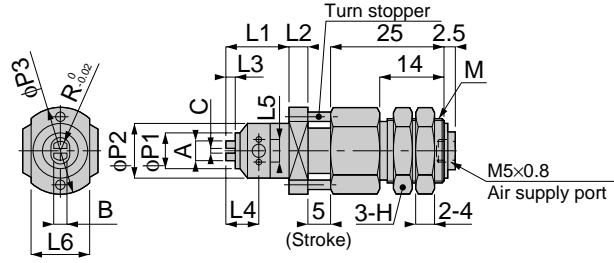
unit:mm

Model	Work size	M	R	A	B	L1	L2	L3	L4	φP1	φP2	C	H	G	Mass (g)
CHM 08BB03C	Groove width 3-5	M10×1	-	3	3	22	2	7.5	5	8	12	1	12	3	19.5
CHM 08BB05C	Groove width 5-7			5	4		3			10					
CHM 08BB07C	Groove width 7-9			7	4		4			12					
CHM 08BB02H	Hole φ2~3	M10×1	R1	2	1.6	22	1	7.5	5	5	12	0.5	12	3	19.5
CHM 08BB03H	Hole φ3~4		R1.5	3	2		1.5			6					
CHM 08BB04H	Hole φ4~6		R2	4	3		2			8					
CHM 08BB06H	Hole φ6~8	M10×1	R3	6	4	22	3	7.5	5	10	12	1	12	3	20
CHM 08BB08H	Hole φ8~10		R4	8			4			4					
CHM 11BB06C	Groove width 6-8		M12×1	-	6		6			28					
CHM 11BB08C	Groove width 8-10	8			5	14									
CHM 11BB10C	Groove width 10-12	10			6	16									
CHM 11BB12C	Groove width 12-14		12			6		10	16	16	1.5	14	4	40.5	
CHM 11BB06H	Hole φ6~8	M12×1	R3	6	4	28	3	10	6	10	16	1.5	14	4	39.5
CHM 11BB08H	Hole φ8~10		R4	8	4		4			12					
CHM 11BB10H	Hole φ10~12		R5	10	6		5			14					
CHM 11BB12H	Hole φ12~14	R6	12			6		6						40.5	

Actuator Series Opening Gripper Series

CHM_B

Floating Panel Mount Type
Fingers in Parallel



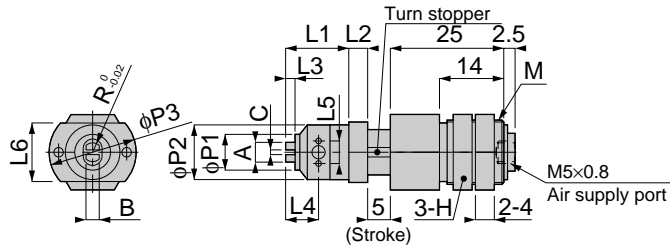
unit:mm

Model	Work size	M	R	A	B	L1	L2	L3	L4	L5	L6	φP1	φP2	φP3	C	H	Mass (g)		
CHM 08BC03C	Groove width 3-5	M14x1	-	3	3	14	4	2	7.5	5	13	8	12	19	0.5	17	70.5		
CHM 08BC05C	Groove width 5-7			5	4			3				10						1	
CHM 08BC07C	Groove width 7-9			7	4			4				12						5	
CHM 08BC02H	Hole φ2~3		R1	2	1.6			5				6						8	1
CHM 08BC03H	Hole φ3~4		R1.5	3	2			6				8						10	2
CHM 08BC04H	Hole φ4~6		R2	4	3			8				10						12	3
CHM 08BC06H	Hole φ6~8		R3	6	4			10				12						14	4
CHM 08BC08H	Hole φ8~10		R4	8	4			12				14						16	5
CHM 11BC06C	Groove width 6-8	M18x1	-	6	6	18	5	4	10	6	17	12	16	24	1.5	22	113		
CHM 11BC08C	Groove width 8-10			8				6				5					14	113.5	
CHM 11BC10C	Groove width 10-12			10				6				6					16	114	
CHM 11BC12C	Groove width 12-14		12	6				6				16					113		
CHM 11BC06H	Hole φ6~8		R3	6				4				10					12	14	113.5
CHM 11BC08H	Hole φ8~10		R4	8				4				12					14	16	114
CHM 11BC10H	Hole φ10~12		R5	10				6				14					16	16	113.5
CHM 11BC12H	Hole φ12~14		R6	12				6				16					16	16	114



CHM_B

Floating Panel Mount Type
Fingers at Right Angle



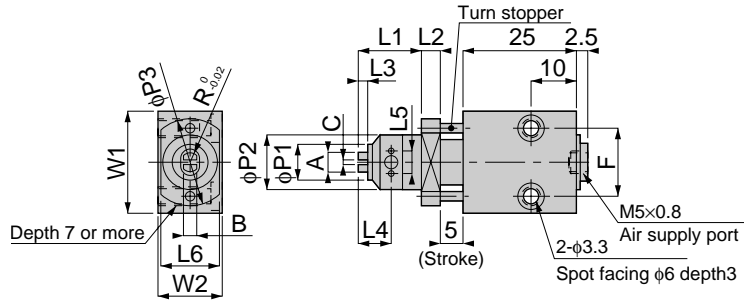
unit:mm

Model	Work size	M	R	A	B	L1	L2	L3	L4	L5	L6	φP1	φP2	φP3	C	H	Mass (g)		
CHM 08BD03C	Groove width 3-5	M14x1	-	3	3	14	4	2	7.5	5	13	8	12	19	0.5	17	70.5		
CHM 08BD05C	Groove width 5-7			5	4			3				10						1	
CHM 08BD07C	Groove width 7-9			7	4			4				12						5	
CHM 08BD02H	Hole φ2~3		R1	2	1.6			5				6						8	1
CHM 08BD03H	Hole φ3~4		R1.5	3	2			6				8						10	2
CHM 08BD04H	Hole φ4~6		R2	4	3			8				10						12	3
CHM 08BD06H	Hole φ6~8		R3	6	4			10				12						14	4
CHM 08BD08H	Hole φ8~10		R4	8	4			12				14						16	5
CHM 11BD06C	Groove width 6-8	M18x1	-	6	6	18	5	4	10	6	17	12	16	24	1.5	22	113		
CHM 11BD08C	Groove width 8-10			8				6				5					14	113.5	
CHM 11BD10C	Groove width 10-12			10				6				6					16	114	
CHM 11BD12C	Groove width 12-14		12	6				6				16					113		
CHM 11BD06H	Hole φ6~8		R3	6				4				10					12	14	113.5
CHM 11BD08H	Hole φ8~10		R4	8				4				12					14	16	114
CHM 11BD10H	Hole φ10~12		R5	10				6				14					16	16	113.5
CHM 11BD12H	Hole φ12~14		R6	12				6				16					16	16	114



CHM_B

Floating Block Type
Fingers in Parallel



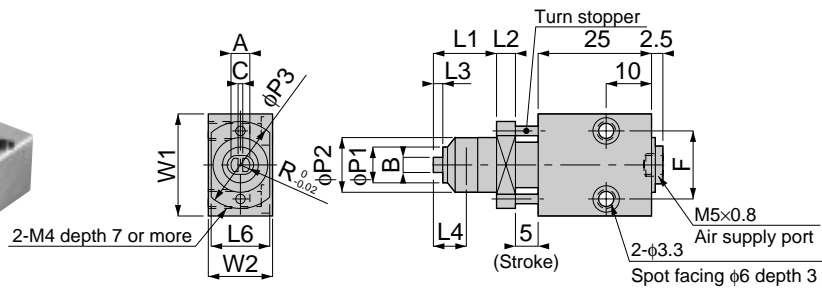
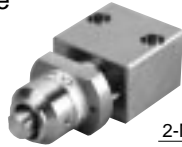
unit:mm

Model	Work size	R	A	B	L1	L2	L3	L4	L5	L6	W1	W2	φP1	φP2	φP3	C	F	Mass (g)	
CHM 08BE03C	Groove width 3-5	-	3	3	14	4	2	7.5	5	13	22	14	8	12	19	0.5	15	48.5	
CHM 08BE05C	Groove width 5-7		5	4			3						10						1
CHM 08BE07C	Groove width 7-9		7	4			4						12						1
CHM 08BE02H	Hole φ2~3	R1	2	1.6	14	4	1	7.5	5	13	22	14	5	12	19	0.5	15	48.5	
CHM 08BE03H	Hole φ3~4	R1.5	3	2			1.5						6						1
CHM 08BE04H	Hole φ4~6	R2	4	3			2						8						1
CHM 08BE06H	Hole φ6~8	R3	6	4	14	4	3	7.5	5	13	22	14	10	12	19	1	15	48.5	
CHM 08BE08H	Hole φ8~10	R4	8				4						12						1
CHM 11BE06C	Groove width 6-8	-	6	6			18						5						4
CHM 11BE08C	Groove width 8-10		8		5	14		100.5											
CHM 11BE10C	Groove width 10-12		10		6	16		101											
CHM 11BE12C	Groove width 12-14		12	18	5	6	17	25	18	10	16	24	1.5	18	100.5				
CHM 11BE06H	Hole φ6~8	R3	6	4	18	5	3	10	6	17	25	18	10	16	24	1.5	18	100.5	
CHM 11BE08H	Hole φ8~10	R4	8	4			12						100.5						
CHM 11BE10H	Hole φ10~12	R5	10	6			14						101						
CHM 11BE12H	Hole φ12~14	R6	12	6	18	5	6	17	25	18	10	16	24	1.5	18	101			



CHM_B

Floating Block Type
Fingers at Right Angle



unit:mm

Model	Work size	R	A	B	L1	L2	L3	L4	L5	L6	W1	W2	φP1	φP2	φP3	C	F	Mass (g)	
CHM 08BF03C	Groove width 3-5	-	3	3	14	4	2	7.5	5	13	22	14	8	12	19	0.5	15	48.5	
CHM 08BF05C	Groove width 5-7		5	4			3						10						1
CHM 08BF07C	Groove width 7-9		7	4			4						12						1
CHM 08BF02H	Hole φ2~3	R1	2	1.6	14	4	1	7.5	5	13	22	14	5	12	19	0.5	15	48.5	
CHM 08BF03H	Hole φ3~4	R1.5	3	2			1.5						6						1
CHM 08BF04H	Hole φ4~6	R2	4	3			2						8						1
CHM 08BF06H	Hole φ6~8	R3	6	4	14	4	3	7.5	5	13	22	14	10	12	19	1	15	48.5	
CHM 08BF08H	Hole φ8~10	R4	8				4						12						1
CHM 11BF06C	Groove width 6-8	-	6	6			18						5						4
CHM 11BF08C	Groove width 8-10		8		5	14		100.5											
CHM 11BF10C	Groove width 10-12		10		6	16		101											
CHM 11BF12C	Groove width 12-14		12	18	5	6	17	25	18	10	16	24	1.5	18	100.5				
CHM 11BF06H	Hole φ6~8	R3	6	4	18	5	3	10	6	17	25	18	10	16	24	1.5	18	100.5	
CHM 11BF08H	Hole φ8~10	R4	8	4			12						100.5						
CHM 11BF10H	Hole φ10~12	R5	10	6			14						101						
CHM 11BF12H	Hole φ12~14	R6	12	6	18	5	6	17	25	18	10	16	24	1.5	18	101.5			

