

Stainless Steel Miniaturesize Grippers

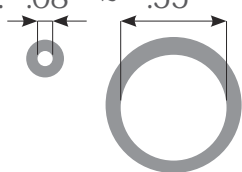
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Internal Gripping Type

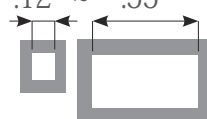


- Finger blanks are not needed for gripping simple shaped workpiece.
- Ideal for gripping a workpiece with a circular hole or with a groove

Circular hole : $\varnothing 2\text{mm} \sim \varnothing 14\text{mm}$,
dia. .08" ~ .55"



Groove : 3mm ~ 14mm gripping and conveyance
.12" ~ .55"





Angular Gripper single acting Internal Gripping

Model Designation (example)

CHM 08 B A 06 H

① Angular Gripper

②. Cylinder dia.

Code	08	11
Cylinder dia. (mm)	ø08	ø11

③. Action

Code	B
Action	Single acting

④. Mounting T type

Code	A	B	C	D	E	F
Shank	Shank	Panel Mount	Panel Mount with Stroke	Panel Mount with Stroke	Screw Mount with Stroke	Screw Mount with Stroke
MountingType						
Finger direction	—	—	Parallel	Right angle	Parallel	Right angle

⑤. Finger Size

■ For Circular Hole : H type

Code	02	03	04	06	08	10	12
Hole dia. (mm)	ø2~3	ø3~4	ø4~6	ø6~8	ø8~10	ø10~12	ø12~14
Hole dia. (inch)	ø.08~.12	ø.12~.16	ø.16~.23	ø.24~.31	ø.32~.39	ø.39~.47	ø.47~.55

■ For Groove : C type

Code	03	05	06	07	08	10	12
Groove width (mm)	3~5	5~7	6~8	7~9	8~10	10~12	12~14
Groove width (inch)	.12~.2	.2~.27	.24~.31	.28~.35	.32~.39	.39~.47	.47~.55

⑥. Finger Shape

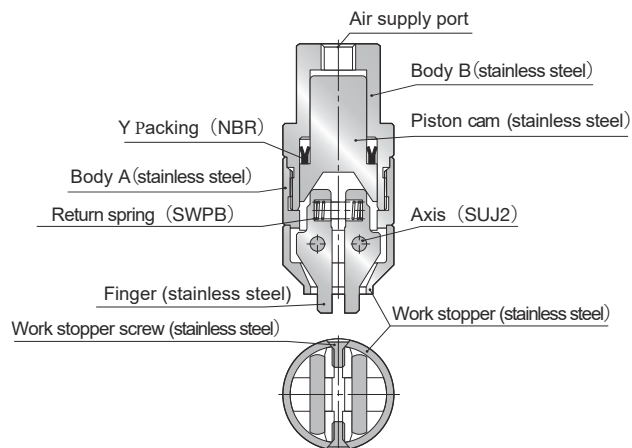
Code	Finger Shape
H	For Circular Hole
C	For Groove

Specification

Cylinder bore	ø 8mm (0.31in.)	ø 11mm (0.43in.)
Moment ※(72.5psi -fingers in parallel)	0.059lbf (0.08N·m)	0.148lbf (0.20N·m)
Operating pressure range	29~102psi (0.2~0.7MPa)	
Operating temp. range	32~140°F (0~60°C) (No freezing)	
Luburication	Not required	

※Moment at the tip of fingers by making the axis as a starting point

Construction



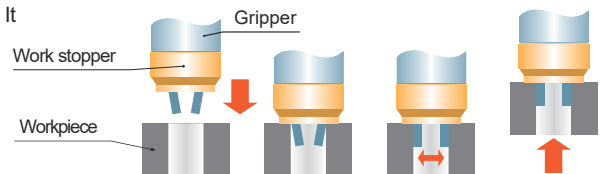
How to use Work Stopper (example)

- Pressing a workpiece to the work stopper makes more stable conveyance object. It can be used for pressing work as it is.

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※ Please refer to the chart below about press-in force
Press-in force

Cylinder bore (mm)	Press-in force (N)
ø8	900 or below
ø11	1,000 or below



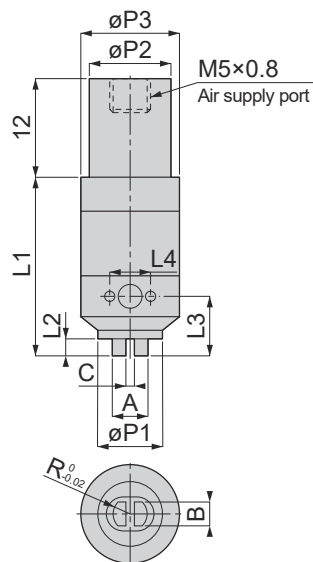
- Thrust of cylinder or alike is too big or unstable, grippers with stroke is recommended to secure stable gripping.

Safety Instruction

Be sure to read the Common Safety Instructions before using PISCO products.

Dimensions

CHM□BA□□ Shank type



Unit : mm

Model	Workpiece	R	A	B	L1	L2	L3	L4	øP1	øP2	øP3	C	Mass (g)	Price (\$)
CHM08BA03C	Groove width	3~5	3	3	22	2	7.5	5	8	10h7 ⁰ _{-0.015}	12	1	18	70.91
CHM08BA05C		5~7	5	4		3			10				19	70.91
CHM08BA07C		7~9	7	4		4			12				19	70.91
CHM08BA02H	Hole dia.	ø2~3	R1	2	22	1	7.5	5	5	10h7 ⁰ _{-0.015}	12	0.5	18	70.91
CHM08BA03H		ø3~4	R1.5	3		1.5			6				19	70.91
CHM08BA04H		ø4~6	R2	4		2			8				18	70.91
CHM08BA06H		ø6~8	R3	6		3			10				19	70.91
CHM08BA08H		ø8~10	R4	8		4			12				19	70.91
CHM11BA06C	Groove width	6~8	—	6	28	4	10	6	12	12h7 ⁰ _{-0.018}	16	1.5	37	83.64
CHM11BA08C		8~10		8		5			14				38	83.64
CHM11BA10C		10~12		10		6			16				38	83.64
CHM11BA12C		12~14		12		6			16				38	83.64
CHM11BA06H	Hole dia.	ø6~8	R3	6	28	3	10	6	10	12h7 ⁰ _{-0.018}	16	1.5	37	83.64
CHM11BA08H		ø8~10	R4	8		4			12				37	83.64
CHM11BA10H		ø10~12	R5	10		5			14				38	83.64
CHM11BA12H		ø12~14	R6	12		6			16				38	83.64

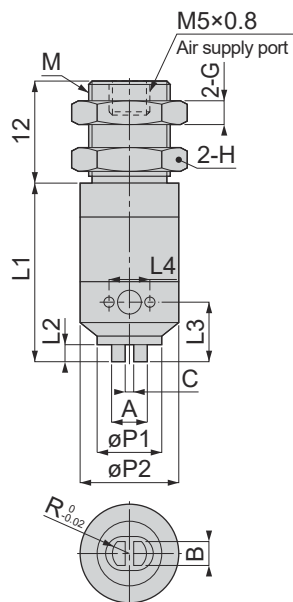
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CHM□BB□□ Panel Mount type

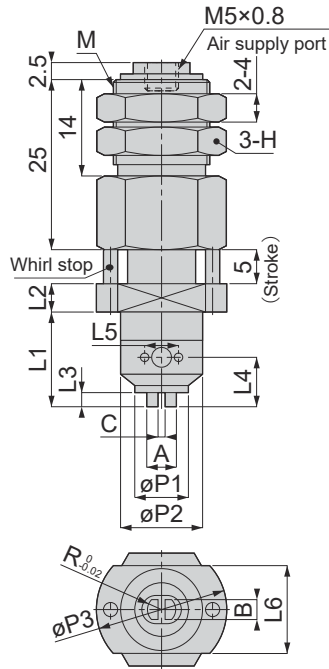


Unit : mm

Model	Workpiece		M	R	A	B	L1	L2	L3	L4	øP1	øP2	C	Hex. H	G	Mass (g)	Price (\$)
CHM08BB03C	Groove width	3~5	M10×1	—	3	3	22	2	7.5	5	8	12	1	12	3	20	74.55
CHM08BB05C		5~7			5	4		3			10						74.55
CHM08BB07C		7~9			7	4		4			12						74.55
CHM08BB02H	Hole dia.	ø2~3		R1	2	1.6	1	6	5	5	0.5	74.55					
CHM08BB03H		ø3~4		R1.5	3	2	1.5	6	6	1	74.55						
CHM08BB04H		ø4~6		R2	4	3	2	8	8	1	74.55						
CHM08BB06H		ø6~8		R3	6	4	3	10	10	1	74.55						
CHM08BB08H		ø8~10		R4	8		4	12	12	1	74.55						
CHM11BB06C		Groove width		6~8	M12×1	—	6	6	28	4	10	6	12	16	1.5	14	4
CHM11BB08C	8~10		8	5			14			87.95							
CHM11BB10C	10~12		10	6			16			87.95							
CHM11BB12C	Hole dia.	12~14	12	4		6	6	16		41	87.95						
CHM11BB06H		ø6~8	R3				6	3		10	10	40	87.95				
CHM11BB08H		ø8~10	R4				8	4		12	12		87.95				
CHM11BB10H		ø10~12	R5	10		5	14	14		87.95							
CHM11BB12H		ø12~14	R6	12		6	16	16		41	87.95						

CHM BC Panel Mount with Stroke : Parallel

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Unit : mm

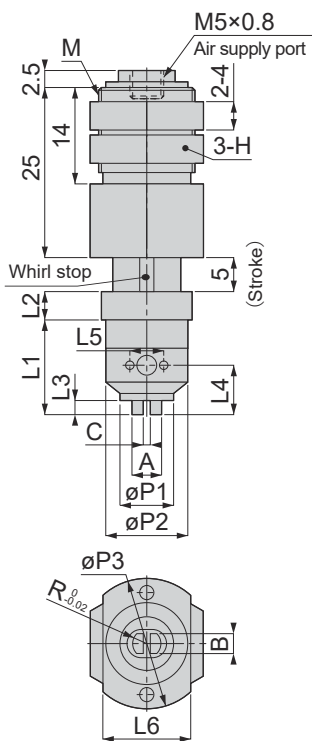
Model	Workpiece	M	R	A	B	L1	L2	L3	L4	L5	L6	øP1	øP2	øP3	C	Hex. H	Mass (g)	Price (\$)			
CHM08BC03C	Groove width	3~5	—	3	3	14	4	2	7.5	5	13	8	12	19	1	17	49	104.55			
CHM08BC05C		5~7		5	4			3				10						104.55			
CHM08BC07C		7~9		7	4			4				12						104.55			
CHM08BC02H	Hole dia.	ø2~3	R1	2	1.6	14	4	1	7.5	5	13	5	12	19	0.5	17	49	104.55			
CHM08BC03H		ø3~4	R1.5	3	2			1.5				6			1			104.55			
CHM08BC04H		ø4~6	R2	4	3			2				8						104.55			
CHM08BC06H		ø6~8	R3	6	4			3				10						104.55			
CHM08BC08H		ø8~10	R4	8				4				12						104.55			
CHM11BC06C		Groove width	6~8	—	6			6				18						5	4	10	6
CHM11BC08C	8~10		8		5	14	127.27														
CHM11BC10C	10~12		10		6	6	16		127.27												
CHM11BC12C	Hole dia.	12~14	R3	12	4	6	18	5	10	6	17	10	16	24	1.5	22	101	127.27			
CHM11BC06H		ø6~8		6														4	3	127.27	
CHM11BC08H		ø8~10		8														4	4	127.27	
CHM11BC10H		ø10~12		10														6	5	14	127.27
CHM11BC12H		ø12~14		12														6	6	16	127.27



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CHM□BD□□ Panel Mount with Stoke : Right angle



Unit : mm

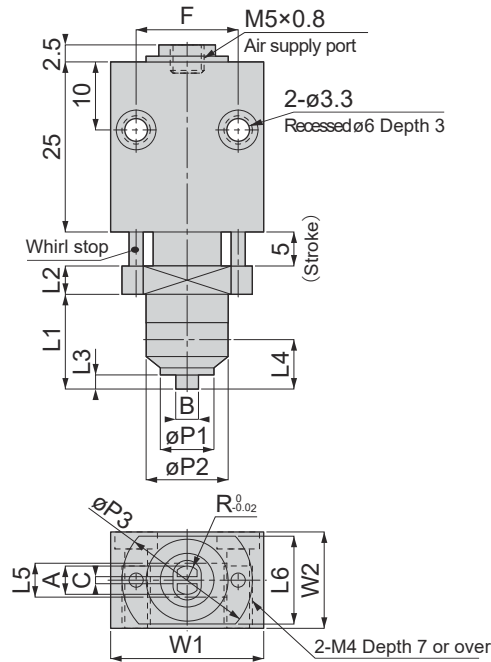
Model	Workpiece	M	R	A	B	L1	L2	L3	L4	L5	L6	øP1	øP2	øP3	C	Hex. H	Mass (g)	Price (\$)		
CHM08BD03C	Groove width	3~5	—	3	3	14	4	2	7.5	5	13	8	12	19	1	17	49	104.55		
CHM08BD05C				5~7	5			4				3						10	104.55	
CHM08BD07C				7~9	7			4				4						12	104.55	
CHM08BD02H	Hole dia.	M14×1	R1	2	1.6	14	4	1	7.5	5	13	5	12	19	0.5	17	49	104.55		
CHM08BD03H			ø3~4	R1.5	3			2				1.5			6			104.55		
CHM08BD04H			ø4~6	R2	4			3				2			8			1	104.55	
CHM08BD06H			ø6~8	R3	6			4				3			10				104.55	
CHM08BD08H			ø8~10	R4	8							4			12				104.55	
CHM11BD06C			Groove width	M18×1	—			6				6			18			5	4	10
CHM11BD08C	8~10	8				5	14	127.27												
CHM11BD10C	10~12	10				6	16	127.27												
CHM11BD12C	12~14	12				6	16	127.27												
CHM11BD06H	Hole dia.	R3			6	4	3	10	127.27											
CHM11BD08H		ø8~10			R4	8	4	12	127.27											
CHM11BD10H		ø10~12			R5	10	6	5	14	127.27										
CHM11BD12H		ø12~14			R6	12	6	16	102	127.27										



Angular Gripper single acting Internal Gripping

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CHM□BF□□ Screw Mount with Stroke : Right angle



Unit : mm

Model	Workpiece	R	A	B	L1	L2	L3	L4	L5	L6	W1	W2	øP1	øP2	øP3	C	F	Mass (g)	Price (\$)								
CHM08BF03C	Groove width	3~5	—	3	14	4	2	7.5	5	13	22	14	8	12	19	1	15	71	116.36								
CHM08BF05C		5~7		5			4						3						10	116.36							
CHM08BF07C		7~9		7			4						4						12	116.36							
CHM08BF02H	Hole dia.	ø2~3	R1	2			1.6						1			5			12	19	0.5	1	15	71	116.36		
CHM08BF03H		ø3~4	R1.5	3			2						1.5			6			116.36								
CHM08BF04H		ø4~6	R2	4			3						2			8			116.36								
CHM08BF06H		ø6~8	R3	6			4						3			10			116.36								
CHM08BF08H		ø8~10	R4	8									4			12			116.36								
CHM11BF06C		Groove width	6~8	—	6	18	5	4	10	6	17	25	18	12	16	24	1.5	18	113	138.18							
CHM11BF08C	8~10		8		6			5						14					138.18								
CHM11BF10C	10~12		10					6						16					138.18								
CHM11BF12C	12~14	12	6	4				3						10					24	1.5	113	138.18					
CHM11BF06H	ø6~8	R3			6			4						3					10	12		138.18					
CHM11BF08H	ø8~10	R4			8			6						4					5	6		14	16	114	138.18		
CHM11BF10H	ø10~12	R5			10																				5	14	138.18
CHM11BF12H	ø12~14	R6			12																				6	6	16