

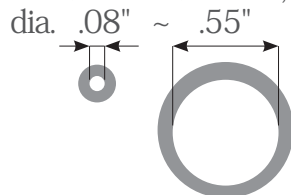
Stainless Steel Miniaturesize Grippers

Internal Gripping Type

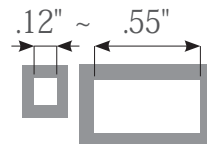


- Finger blanks are not needed for gripping simple shaped workpiece.
- Ideal for gripping a workpiece with a circular hole or with a groove

Circular hole : $\varnothing 2\text{mm} \sim \varnothing 14\text{mm}$,



Groove : $3\text{mm} \sim 14\text{mm}$ gripping and conveyance



Angular Gripper single acting Internal Gripping

Model Designation (example)

CHM ① **08** ② **B** ③ **A** ④ **06** ⑤ **H** ⑥

⑥. Finger Shape

Code	Finger Shape
H	For Circular Hole
C	For Groove

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

④. Mounting T type

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

③. Action

Code	B
Action	Single acting

②. Cylinder dia.

Code	08	11
Cylinder dia. (mm)	ø08	ø11

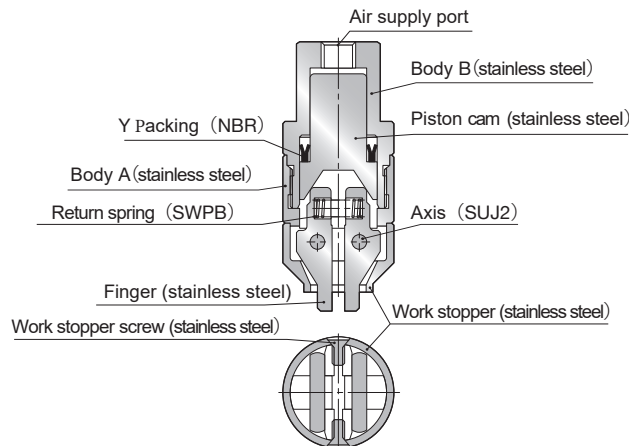
①. Angular Gripper

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)	
Lubrication	Not required	

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

Construction

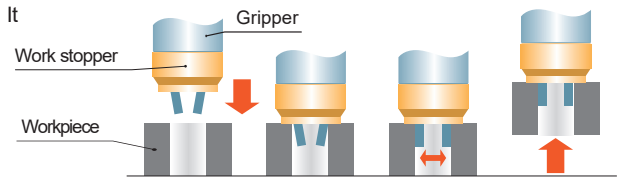


How to use Work Stopper (example)

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

※ 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



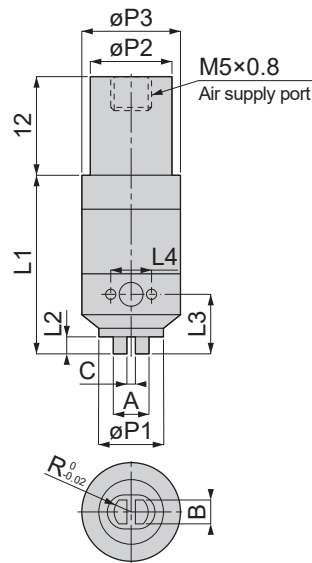
■ Thrust of cylinder or alike is too big or unstable, grippers with stroke is recommended to secure stable gripping.

Safety Instruction

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

Dimensions

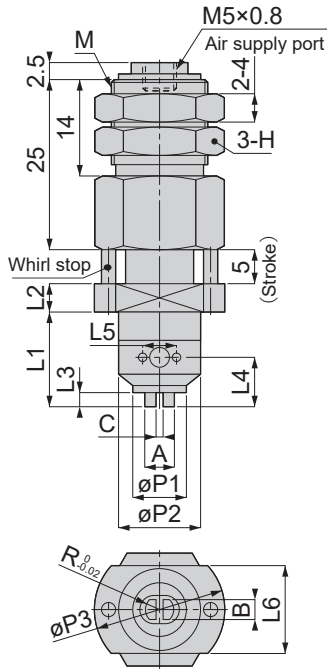
CHM□BA□□ Shank type



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	4		3			10						
CHM08BA07C			7	4		4			12						
CHM08BA02H	Hole dia. ø2~3	R1	2	1.6	22	1	7.5	5	5	10h7 ⁰ _{-0.015}	12	0.5	18	70.91	
CHM08BA03H		R1.5	3	2		1.5			6						
CHM08BA04H		R2	4	3		2			8						
CHM08BA06H		R3	6	4		3			10						
CHM08BA08H		R4	8	4		4			12						
CHM11BA06C	Groove width 6~8	-	6	6	28	4	10	6	12	12h7 ⁰ _{-0.018}	16	1.5	37	83.64	
CHM11BA08C			8			6			5						14
CHM11BA10C			10			6			6						16
CHM11BA12C			12			6			6						16
CHM11BA06H	Hole dia. ø6~8	R3	6	4	28	3	10	6	10	12h7 ⁰ _{-0.018}	16	1.5	37	83.64	
CHM11BA08H		R4	8	6		4			12						
CHM11BA10H		R5	10	6		5			14						
CHM11BA12H		R6	12	6		6			16						

CHM BC Panel Mount with Stroke : Parallel

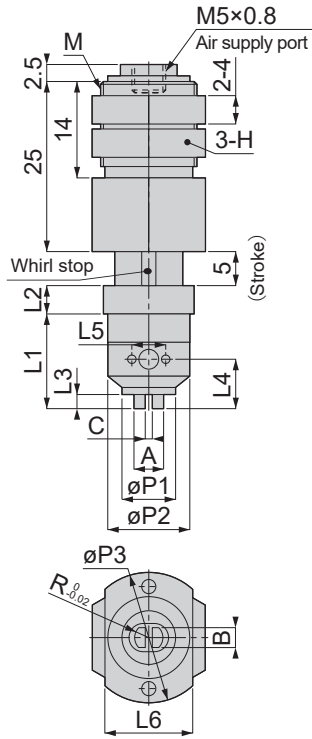


Unit : mm

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	M14×1	-	3	3	14	4	2	7.5	5	13	8	12	19	0.5	17	49	104.55						
CHM08BC05C				5	4			3				10						104.55						
CHM08BC07C				7	4			4				12						104.55						
CHM08BC02H	Hole dia. ø2~3		R1	2	1.6			1				5						12	19	0.5	17	49	104.55	
CHM08BC03H			R1.5	3	2			1.5				6						12	19	1	104.55			
CHM08BC04H			R2	4	3			2				8						104.55						
CHM08BC06H			R3	6	4			3				10						104.55						
CHM08BC08H	ø8~10		R4	8	4			4				12						104.55						
CHM11BC06C	Groove width 6~8	M18×1	-	6	6	18	5	4	10	6	17	12	16	24	1.5	22	101	127.27						
CHM11BC08C				8				6				5						14	127.27					
CHM11BC10C				10				6				6						16	127.27					
CHM11BC12C	12		6	6				16				127.27												
CHM11BC06H	Hole dia. ø6~8		R3	6				4				3						10	16	24	1.5	22	101	127.27
CHM11BC08H			R4	8				4				4						12	127.27					
CHM11BC10H			R5	10				6				5						14	127.27					
CHM11BC12H			R6	12				6				6						16	127.27					

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CHM **BD** Panel Mount with Stroke : Right angle

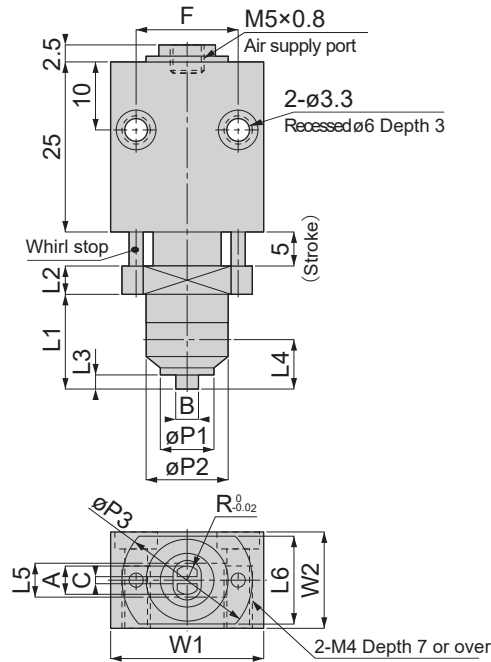


Unit : mm

Model	Workpiece	M	R	A	B	L1	L2	L3	L4	L5	L6	$\phi P1$	$\phi P2$	$\phi P3$	C	Hex. H	Mass (g)	Price (\$)						
CHM08BD03C	Groove width 3~5	M14x1	-	3	3	14	4	2	7.5	5	13	8	12	19	1	17	49	104.55						
CHM08BD05C	Groove width 5~7			5	4			3				10						104.55						
CHM08BD07C	Groove width 7~9			7	4			4				12						104.55						
CHM08BD02H	Hole dia. $\phi 2 \sim 3$	M14x1	R1	2	1.6	14	4	1	7.5	5	13	5	12	19	0.5	17	49	104.55						
CHM08BD03H	Hole dia. $\phi 3 \sim 4$		R1.5	3	2			1.5				6			104.55									
CHM08BD04H	Hole dia. $\phi 4 \sim 6$		R2	4	3			2				8			104.55									
CHM08BD06H	Hole dia. $\phi 6 \sim 8$		R3	6	4			3				10			104.55									
CHM08BD08H	Hole dia. $\phi 8 \sim 10$		R4	8				4				12			104.55									
CHM11BD06C	Groove width 6~8	M18x1	-	6	6	18	5	4	10	6	17	12	16	24	1.5	22	101	127.27						
CHM11BD08C	Groove width 8~10			8				5				14						127.27						
CHM11BD10C	Groove width 10~12			10				6				16						127.27						
CHM11BD12C	Groove width 12~14			12	6			10				16						24	1.5	22	101	127.27		
CHM11BD06H	Hole dia. $\phi 6 \sim 8$			R3	6			4				3						10	16	24	1.5	22	101	127.27
CHM11BD08H	Hole dia. $\phi 8 \sim 10$			R4	8			6				4						12	127.27					
CHM11BD10H	Hole dia. $\phi 10 \sim 12$	R5	10	5	14	127.27																		
CHM11BD12H	Hole dia. $\phi 12 \sim 14$	R6	12	6	16	102	127.27																	

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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	φP1	φP2	φP3	C	F	Mass (g)	Price (\$)	
CHM08BF03C	Groove width 3~5	-	3	3	14	4	2	7.5	5	13	22	14	8	12	19	0.5	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. φ2~3	R1	2	1.6	14	4	1	7.5	5	13	22	14	5	12	19	0.5	15	71	116.36	
CHM08BF03H	φ3~4	R1.5	3	2			1.5						6						116.36	
CHM08BF04H	φ4~6	R2	4	3			2						8						116.36	
CHM08BF06H	φ6~8	R3	6	4			3						10						116.36	
CHM08BF08H	φ8~10	R4	8	4	4	12	116.36													
CHM11BF06C	Groove width 6~8	-	6	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						6						16	138.18
CHM11BF12C	12~14		12				6						6						18	138.18
CHM11BF06H	Hole dia. φ6~8	R3	6	4	18	5	3	10	6	17	25	18	10	16	24	1.5	18	113	138.18	
CHM11BF08H	φ8~10	R4	8	4			12						138.18							
CHM11BF10H	φ10~12	R5	10	6			5						14						138.18	
CHM11BF12H	φ12~14	R6	12	6			6						16						138.18	