

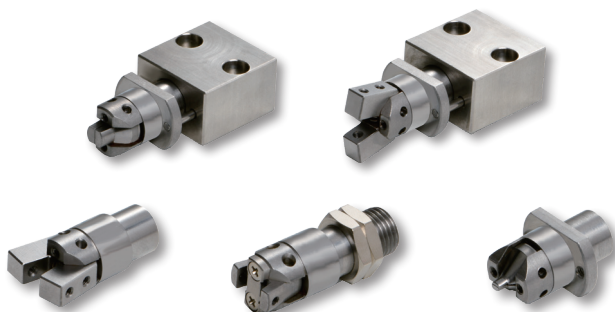
HDD series Mini Air Gripper

Product features/ Code of order

CHELIC

Feature

- Stainless steel fingers
- The gripping available for 2 mm hole
- Single acting, normally open, normally close in option



Specification

Item	Bore size (mm)	Ø08		Ø11	
Action		Single acting normally open: P	Single acting normally closed: C	Single acting normally open: P	Single acting normally closed: C
Fluid		Air			
Pressure range	kgf / cm ² (kPa)	2 ~ 7 (200 ~ 700)			
Ambient and fluid temperature	°C	0 ~ 60			
Gripping force	kgf	0.8		2.0	
Gripping action angle	°	-4.5 ~ 10	—	-5.5 ~ 8	—
Available diameter/ Slot size		—	Ø2 ~ Ø10 3 ~ 9	—	Ø6 ~ Ø14 6 ~ 14
Port size	mm	M5 x 0.8P			
Lubrication		Non-lube			

※The gripping force is the force of open and close gripper, the acting pressure is 5 Kg / cm².

Code of order HDD 08 - C - 1 - D2

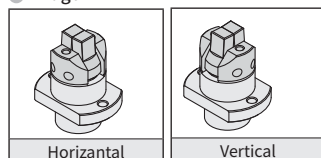
1 2 3 4

1	Mark	Bore size (mm)
	08	Ø8
	11	Ø11

2	Mark	Action
	C	Normally closed
	P	Normally open

3	Mark	Mounting type
	1	Basic
	2	Body male thread
	3	Thread base (Horizontal)
	4	Thread base (Vertical)
	5	Square base (Horizontal)
	6	Square base (Vertical)
	7	Flange base (Horizontal)
	8	Flange base (Vertical)

● Image



● Note: Horizontal and vertical indicates the direction to the base.

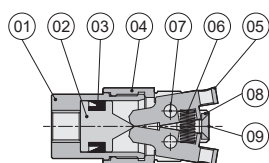
Gripper type				
Mark	Type of action	Bore size (mm)	Ø8	Ø11
D2 D12	C: Normally closed		D2: Ø2 ~ 3	D6: Ø6 ~ 8
			D3: Ø3 ~ 4	D8: Ø8 ~ 10
			D4: Ø4 ~ 6	D10: Ø10 ~ 12
			D6: Ø6 ~ 8	D12: Ø12 ~ 14
			D8: Ø8 ~ 10	—
			C3: 3 ~ 5	C6: 6 ~ 8
C3 C12	C: Normally closed		C5: 5 ~ 7	C8: 8 ~ 10
			C7: 7 ~ 9	C10: 10 ~ 12
			—	C12: 12 ~ 14
A	P: Normally open		Small finger	
B			Big finger	

HDD series Mini Air Gripper

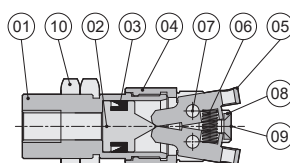
Product features

CHELIC

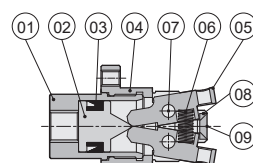
Internal structure



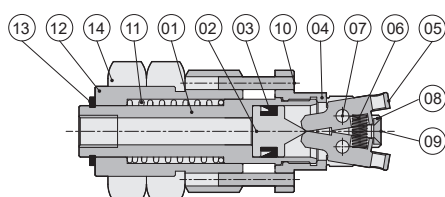
1.Basic



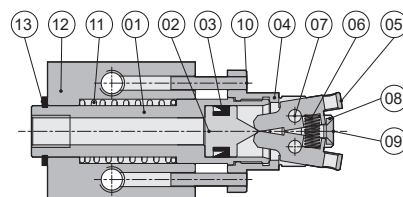
2.Body male thread



7/8.Flange base(Horizontal/Vertical)



3/4.Thread base(Horizontal/Vertical)



5/6.Squre base(Horizontal/Vertical)

Components and material list

No.	Item	Material	No.	Item	Material
01	Body	Stainless steel	06	Gripper springs	Stainless steel
02	Piston	Stainless steel	07	Pin	Bearing steel
03	Piston packing	NBR	08	Front cap	Stainless steel
04	Front cover	Stainless steel	09	Counter sunk screw	Alloy steel
05	Finger	Stainless steel			

Body male thread - Components and material list

No.	Item	Material
10	Nut	Alloy steel

Squre base - Components and material list

No.	Item	Material	No.	Item	Material
10	Pin	Bearing steel	13	Clip	Spring steel
11	Base spring	Stainless steel	14	Nut	Alloy steel
12	Base	Stainless steel			

Packing material list

Unit: mm

Bore size		Ø8	Ø11
Item	Quantity	1	1
Piston packing		MYA-05	MYA-08

Product weight

Model	Weight (kg)
HDD Ø08	0.02
HDD Ø11	0.04

Note: All of above are theoretical data. Weight tolerance about ±5%

HDD

HDS

HDM

HDP

HDPM

HDZ

HDZL

HDZM

HDW

HDWM

HMW

HMG

HMY

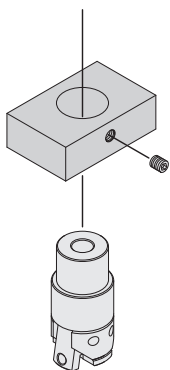
HDU

HDD series Mini Air Gripper

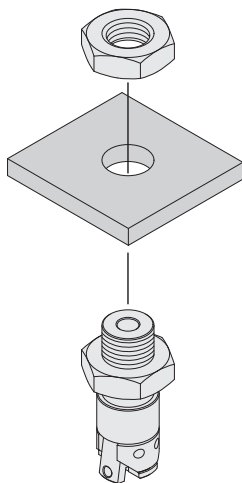
Mounting type

CHELIC

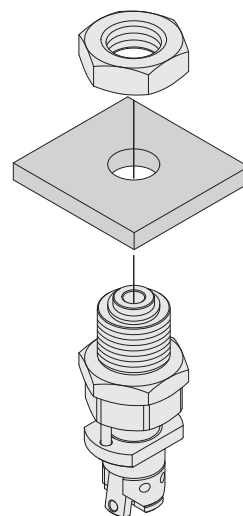
■ Mounting type



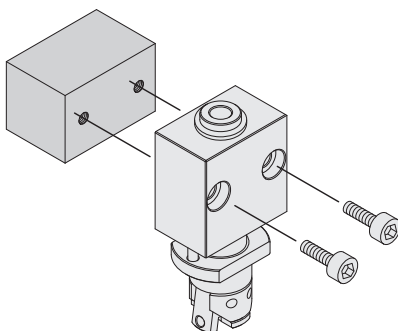
Basic type mounting



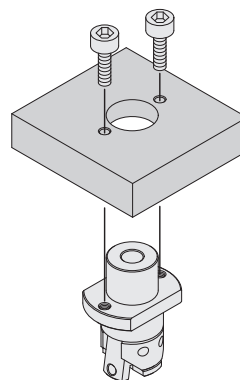
Body male thread mounting



Thread base mounting



Square base mounting



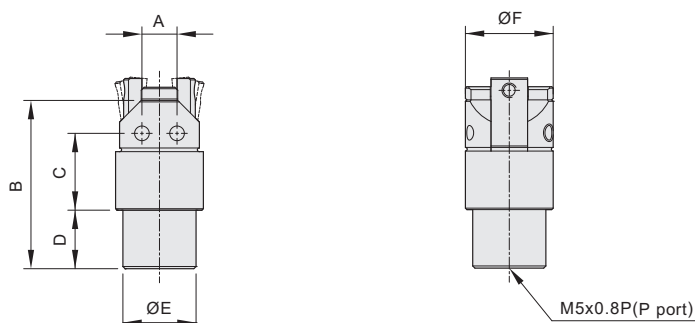
Flange base mounting

HDD series Mini Air Gripper

Dimensions

CHELIC

Basic type

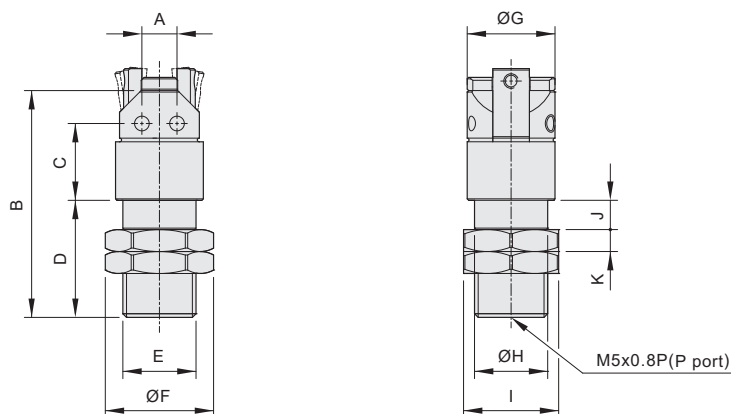


Unit: mm

Model \ Size	A	B	C	D	E	F
HDD 08	4.8	23	10.5	8	10	12
HDD 11	6	26	13	8	13	16

※ Note: Above dimensions not including fingers. Please refer to P 6-14.12 and P 6-14.13 for gripper finger

Body male thread



Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I	J	K
HDD 08	4.8	31	10.5	16	M10 x 1.0P	14.8	12	10	13	4	3
HDD 11	6	35	13	17	M12 x 1.0P	16	16	13	14	5	3

※ Note: Above dimensions not including fingers. Please refer to P 6-14.12 and P 6-14.13 for gripper finger

HDD

HDS

HDM

HDP

HDPM

HDZ

HDZL

HDZM

HDW

HDWM

HMW

HMG

HMY

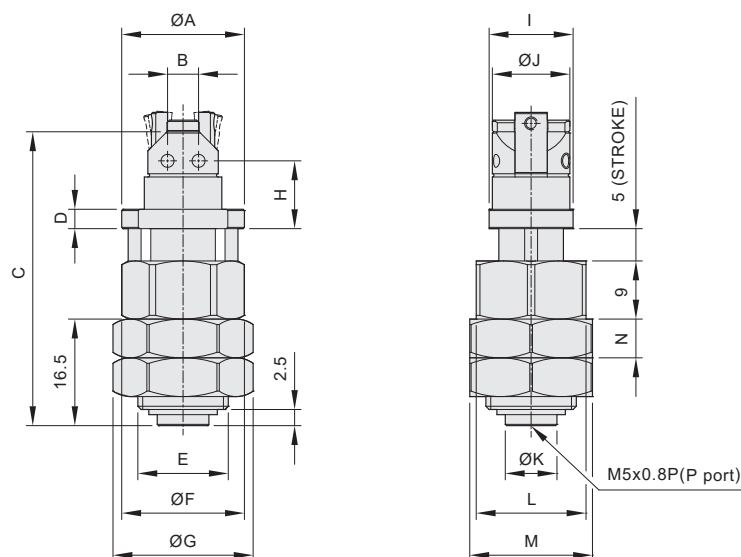
HDU

HDD series Mini Air Gripper

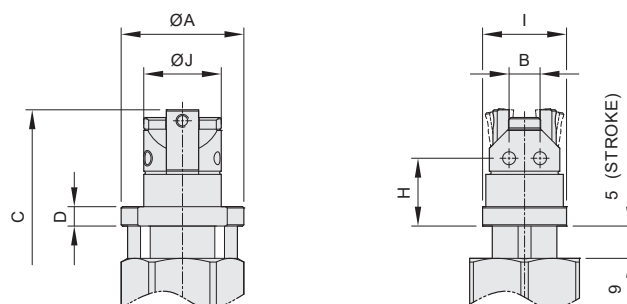
Dimensions

CHELIC

Thread base (Horizontal)



Thread base (Vertical)



Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N
HDD 08	19	4.8	45.5	3	M14 x 1.5P	19	21.7	10.5	13	12	8	17	19	6
HDD 11	24	6	48.5	4	M18 x 1.5P	25	26	13	17	16	10	22	24	5

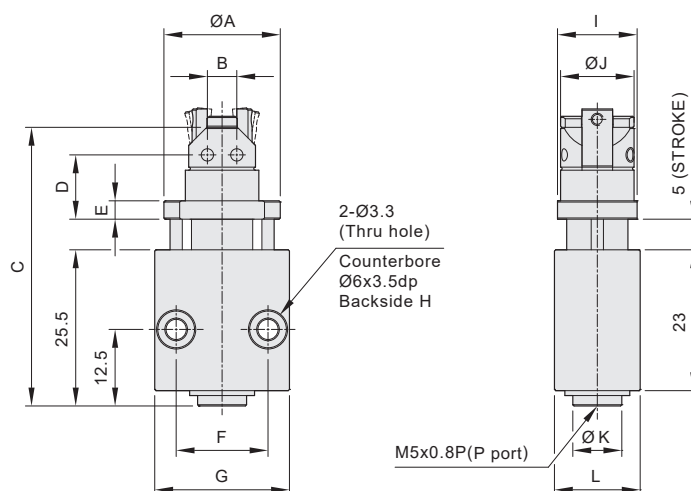
※ Note: Above dimensions not including fingers. Please refer to P 6-14.12 and P 6-14.13 for gripper finger

HDD series Mini Air Gripper

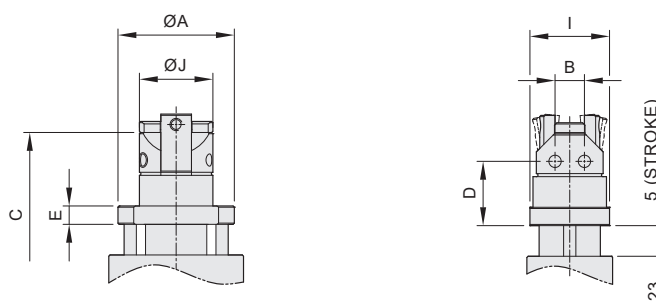
Dimensions

CHELIC

Squire base (Horizontal)



Squire base (Vertical)



HDD

HDS

HDM

HDP

HDPM

HDZ

HDZL

HDZM

HDW

HDWM

HMW

HMG

HMY

HDU

Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I	J	K	L
HDD 08	19	4.8	45.5	10.5	3	15	22	M4x0.7Px7dp	13	12	8	14
HDD 11	24	6	48.5	13	4	18	25	M4x0.7Px9dp	17	16	10	18

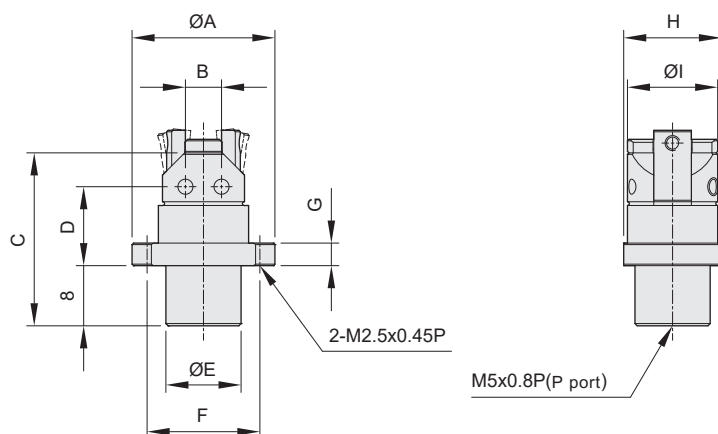
※ Note: Above dimensions not including fingers. Please refer to P 6-14.12 and P 6-14.13 for gripper finger

HDD series Mini Air Gripper

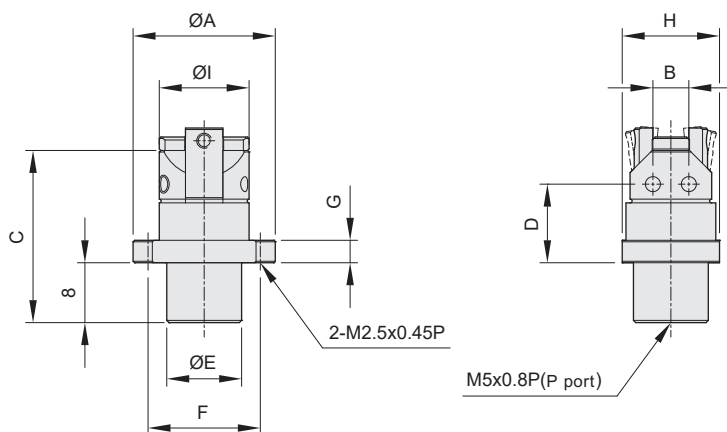
Dimensions

CHELIC

Flange base (Horizontal)



Flange base (Vertical)



Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I
HDD 08	19	4.8	23	10.5	10	15	3	13	12
HDD 11	24	6	26	13	13	20	4	17	16

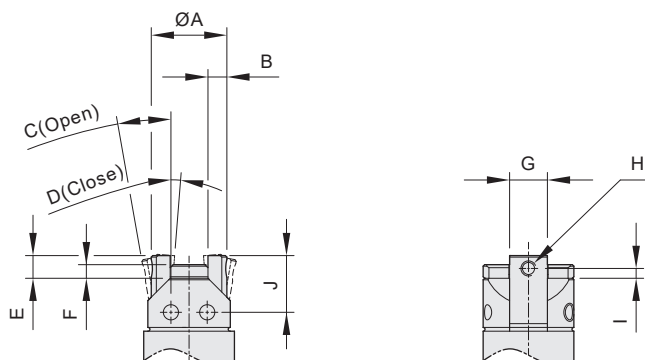
※ Note: Above dimensions not including fingers. Please refer to P 6-14.12 and P 6-14.13 for gripper finger

HDD series Mini Air Gripper

Dimensions

CHELIC

Normally open finger dimensions (small finger)

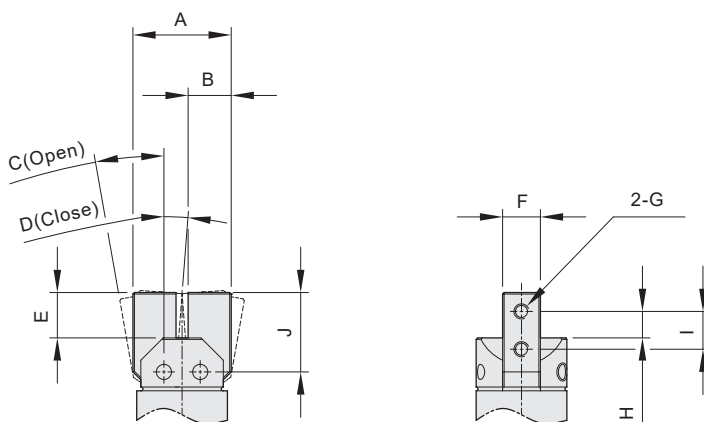


Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I	J
HDD 08	10	2.5	10°	-4.5°	3	1.8	5	M2x0.4P	1.3	7.5
HDD 11	13	3.5	8°	-5.5°	4	1.5	7	M2.5x0.45P	1.5	9

※ Note: Above dimensions refer to grippers. The fastening size on Page P3-14.8 ~ P3-14.11

Normally open finger dimensions (big finger)



Unit: mm

Model \ Size	A	B	C	D	E	F	G	H	I	J
HDD 08	13	5.7	10°	-4.5°	6	5	M2x0.4P	3.5	5	10.5
HDD 11	17	7.5	8°	-4.5°	7.3	7	M2.5x0.45P	4.3	6	12.3

※ Note: Above dimensions refer to grippers. The fastening size on Page P3-14.8 ~ P3-14.11

HDD

HDS

HDM

HDP

HDPM

HDZ

HDZL

HDZM

HDW

HDWM

HMW

HMG

HMY

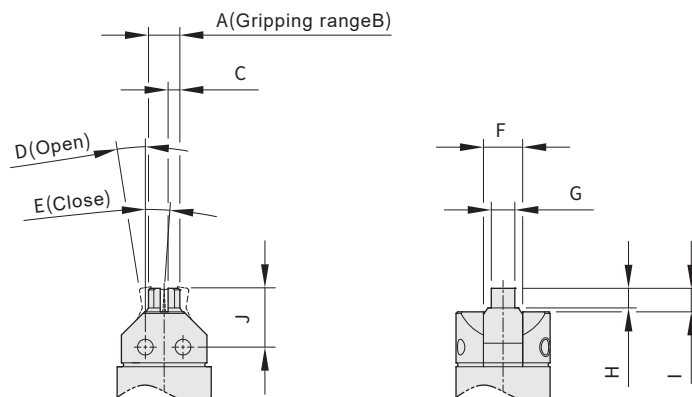
HDU

HDD series Mini Air Gripper

Dimensions

CHELIC

Normally closed Finger dimensions

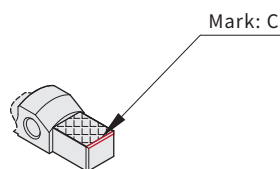
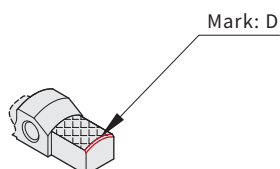


Unit: mm

Size		A	B	C	D	E	F	G	H	I	J
Model											
HDD 8	D2	Ø2	Ø2 ~ 3	0.75	5.3°	-2°	5	1.6	1.5	3	7.5
	D3	Ø3	Ø3 ~ 4	1				2	2		
	D4	Ø4	Ø4 ~ 6	1.5	9°	-4°		3	2.5		
	D6	Ø6	Ø6 ~ 8	2.5				4	3.5		
	D8	Ø8	Ø8 ~ 10	3.5				4	5		
	C3	3	3 ~ 5	1				3	2.5		
	C5	5	5 ~ 7	2				4	3.5		
	C7	7	7 ~ 9	3				4	5		
HDD 11	D6	Ø6	Ø6 ~ 8	2.2	8°	-4.5°	7	4	4	5	10
	D8	Ø8	Ø8 ~ 10	3.2				6	5		
	D10	Ø10	Ø10 ~ 12	4.2				6	6		
	D12	Ø12	Ø12 ~ 14	5.2				6	6		
	C6	6	6 ~ 8	2.2				6	5		
	C8	8	8 ~ 10	3.2				6	6		
	C10	10	10 ~ 12	4.2				6	6		
	C12	12	12 ~ 14	5.2				6	6		

※ Note: Above dimensions refer to grippers. The fastening size on Page P3-14.8 ~ P3-14.11

Normal close type - Differentiation of D and C



● D: Indicates the gripper finger with arc shape

● C: Indicates the gripper finger with flat shape