

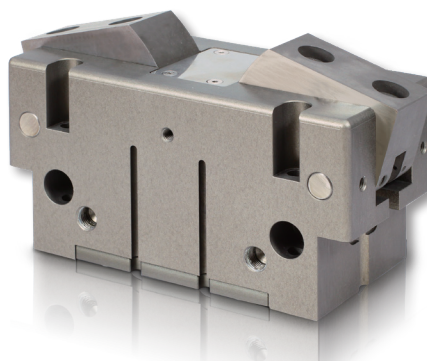
HM series Wedge Slider Type Air Gripper

Product features/ Code of order

CHELIC

Feature

- Wedge slider type
- Y type clamping
- Large output and good stability



Specification

Item	Bore size (mm)	Ø34	Ø44	Ø55	Ø66
Action		Double acting			
Fluid		Air			
Pressure range	kgf / cm ² (kPa)	2 ~ 8 (200 ~ 800)			
Ambient and fluid temperature	°C	5 ~ 80			
Lubrication		Lubrication free type			
Gripper open angle	°	15	15	15	15
Gripper close angle	°	-3	-3	-3	-3
Gripper close moment	N.m	12.5	23	57	100
Port size	mm	M5X0.8P	PT1/8		
Recommend workpiece weight	kg	0.97	1.4	2.78	3.86
Open/ Close time	s	0.08	0.12	0.14	0.16
Repeatability	mm	±0.02			
Sensing device		With magnet			

Note: The gripping force is the force of open and close gripper, the acting pressure is 5 kgf/cm².

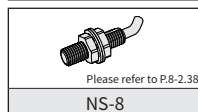
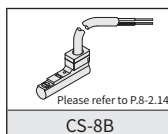
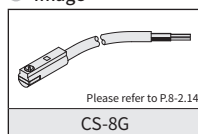
Code of order **HM 34 - 8G 2 - N8 2**

1 2 3 4 5

1	Mark	Bore size (mm)
	34	Ø34
	44	Ø44
	55	Ø55
	66	Ø66

2	Mark	Sensor switch
	None	Without sensor switch
	8G	CS-8G
	8B	CS-8B

● Image



3	Mark	Sensor quantity
	1	With 1 sensor switch
	2	With 2 sensor switches

4	Mark	Proximity sensor
	None	Without proximity sensor
	N8	NS-8

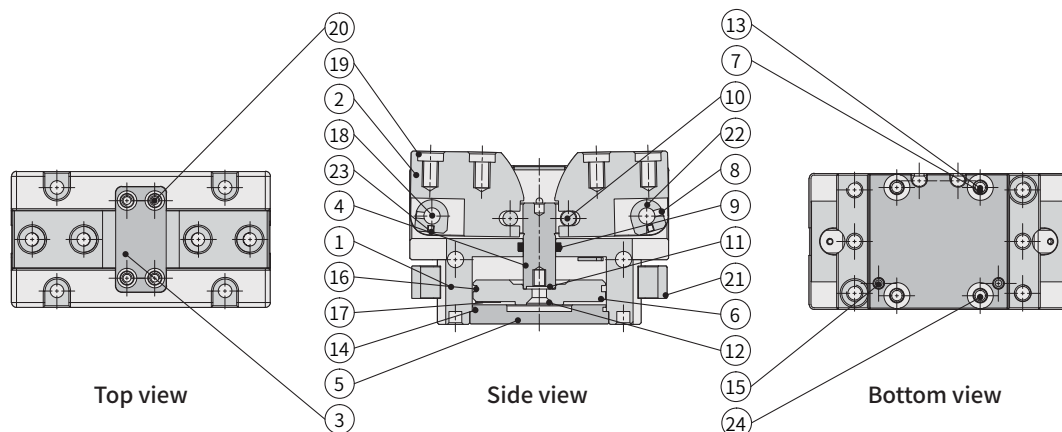
5	Mark	Proximity sensor quantity
	1	With 1 proximity sensor
	2	With 2 proximity sensors

HMY series Wedge Slider Type Air Gripper

Product features

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Internal structure



Components and material list

No.	Item	Material	No.	Item	Material
01	Body	Aluminum alloy	13	Screw	Alloy steel
02	Finger	Carbon steel	14	O-ring	NBR
03	Finger cap	Stainless steel	15	Set screw	Alloy steel
04	Shaft	Alloy steel	16	X-ring	NBR
05	Base	Aluminum alloy	17	Magnet	Rare earth metal
06	Piston	Aluminum alloy	18	Pin	Alloy steel
07	O-ring	NBR	19	Centering sleeve	Carbon steel
08	Set screw	Alloy steel	20	Screw	Alloy steel
09	Shaft packing	NBR	21	Proximity sensor holder	Aluminum alloy
10	Pin	Alloy steel	22	Proximity sensor adjuster	Aluminum alloy
11	O-ring	NBR	23	Proximity sensing block	Iron
12	Screw	Alloy steel	24	Screw	Alloy steel

Packing and O-ring material list

Unit: mm

Item	X-ring	Shaft packing	07 O-ring	11 O-ring	14 O-ring
Model \ Quantity	1	1	1	1	1
HMY Ø34	29.87x33.43x1.78	MY-10A	Ø2.9 x Ø1	Ø6 x Ø1	Ø34.5 x Ø1.2
HMY Ø44	37.82x41.38x1.78	MY-12A	Ø2.9 x Ø1	Ø6 x Ø1	Ø40 x Ø1
HMY Ø55	48.9x54.14x2.62	MY-14A	Ø4 x Ø1	Ø8 x Ø1	Ø52 x Ø1
HMY Ø66	59.92x66.98x3.53	MY-16A	Ø4 x Ø1	Ø10 x Ø1	Ø60.04 x Ø1.78

Product weight

Model	Weight (kg)
HMY Ø34	0.49
HMY Ø44	0.79
HMY Ø55	1.33
HMY Ø66	2.47

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

HMY series Wedge Slider Type Air Gripper

Operating type and data, Mounting type

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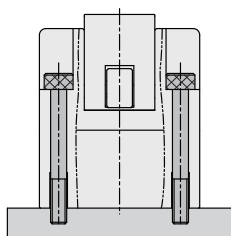
Operating type and data

Action	Model	Bore size (mm)	The smallest operating pressure (kgf/cm ²)	Thread port (mm)	Gripper close moment(N-m)
Double acting	HMY 34	34	2	4-M5x0.8Px8dp	12.5
	HMY 44	44	2	4-M6x1.0Px10dp	23
	HMY 55	55	2	4-M6x1.0Px10dp	57
	HMY 66	66	2	4-M10x1.5Px14dp	100

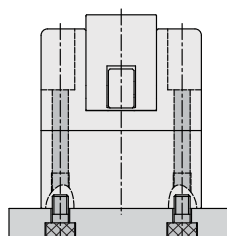
Note: The gripping force is the force of open and close gripper, the acting pressure is 5 kgf/cm².

Mounting type

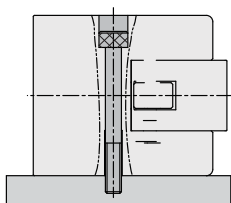
1. Apply the screw to through-holes of body



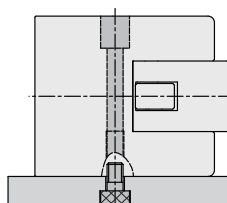
2. Apply the screw from bottom thread hole



3. Apply the screw to through-holes in the side of body



4. Apply the screw from side thread hole



HDD

HDS

HDM

HDP

HDPM

HDZ

HDZL

HDZM

HDW

HDWM

HMW

HMG

HMY

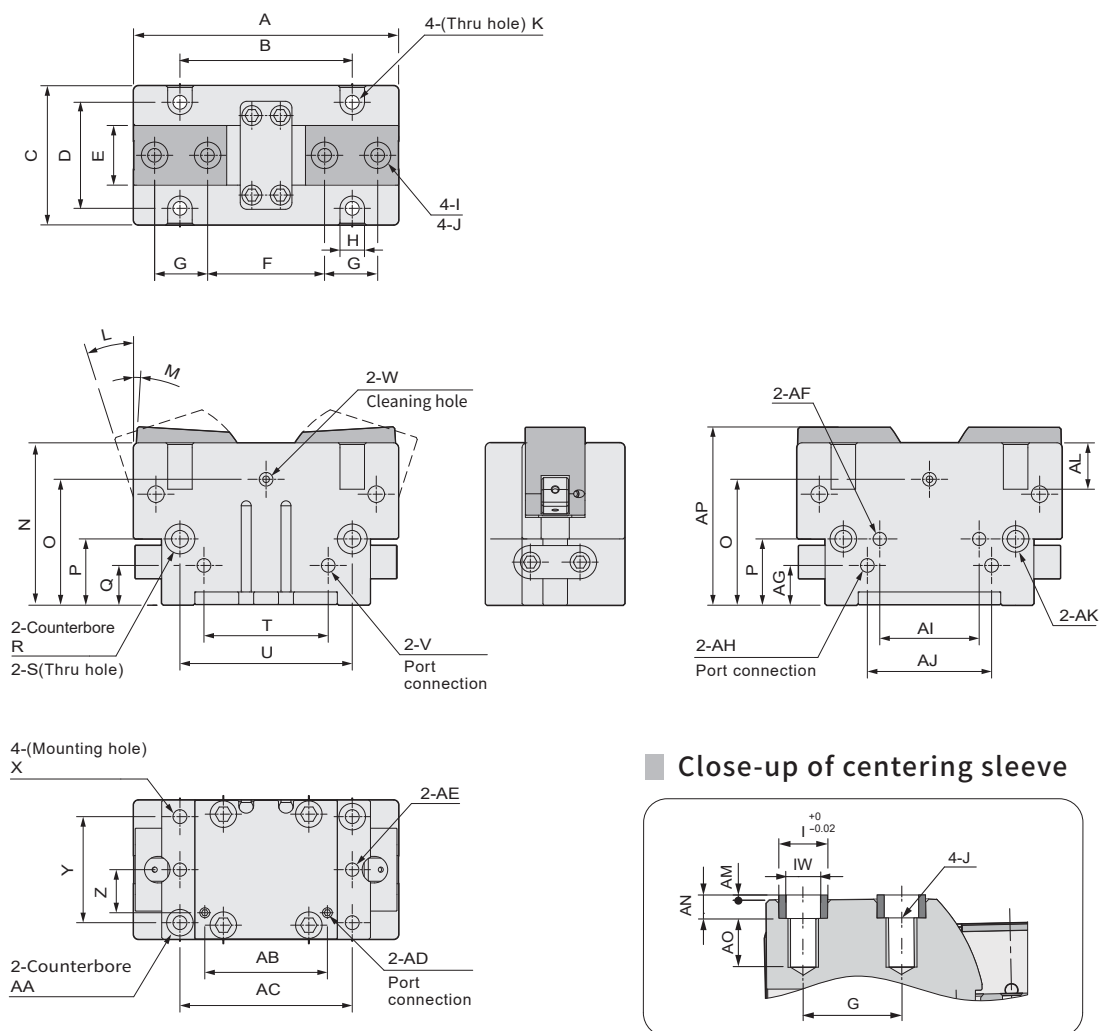
HDU

HMY series Wedge Slider Type Air Gripper

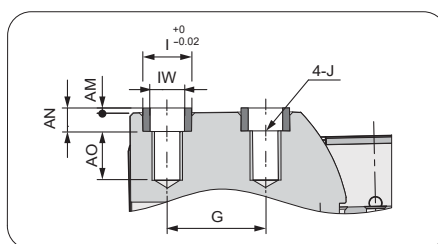
Dimensions

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HMY 34~66



Close-up of centering sleeve



Unit: mm

Mark Model	A	B	C	D	E	F	G	H	I	IW	J	K	L	M	N	O	P	Q	R	S	T	U	V
HMY 34	80	52	42	32	18	36	16	7.4	Ø8x3dp	Ø5.3	M5x0.8Px8dp	Ø4.2	15°	3°	49	38	20	12	Ø9x12dp	Ø5.1	37.5	52	M5
HMY 44	98	66	50	38	22	46	20	9	Ø10x3dp	Ø6.3	M6x1.0Px10dp	Ø5.1	15°	3°	56	44	25	15	Ø11x10dp	Ø6.6	49	66	PT1/8
HMY 55	123	82	60	45	26	60	24	10.5	Ø10x3dp	Ø6.3	M6x1.0Px10dp	Ø6.8	15°	3°	64	48.5	30	15	Ø14x15dp	Ø9	61	82	PT1/8
HMY 66	150	100	72	56	30	67	32	10.5	Ø14x5dp	Ø10.3	M10x1.5Px14dp	Ø6.8	15°	3°	77	58.5	28	18	Ø14x17dp	Ø9	74	100	PT1/8

Unit: mm

Mark Model	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AN	AM	AO	AP
HMY 34	M5	M5x0.8Px10dp	32	13	Ø8x3dp	38	52	M3	Ø4x4dp	Ø4x5dp	12	M5	30	37.5	Ø8x3dp	14	5	2	8	53.5
HMY 44	M5	M6x1.0Px10dp	38	14.9	Ø10x4dp	49	66	M3	Ø5x6dp	Ø5x5dp	15	M5	50	49	Ø10x4dp	19	5	2	10	60
HMY 55	M5	M8x1.25Px20dp	45	19.8	Ø12x4dp	56.8	82	M5	Ø6x10dp	Ø6x6dp	15	M5	60	61	Ø12x4dp	22	5	2	10	68
HMY 66	M5	M8x1.25Px20dp	56	22.6	Ø12x4dp	76	100	M5	Ø6x12dp	Ø6x7dp	18	M5	76	74	Ø12x4dp	26	7	2	14	82

HDU

HDD
HDS
HDM
HDP
HDPM
HDZ
HDZL
HDZM
HDW
HDWM
HMW
HMG
HMY
HDU