

Air Grippers

Parallel / Sensors / Open / Close Stroke 4 mm Type

Air Grippers – Parallel

**Without Sensor Slot
ACHE**

**Sensor Mounting Type
ACHK**

Common Finger / Attachment Mounting Part

Common EE Type Retaining Ring

ACHAT Attachment

ⓘ The drawing shows with no air supplied.

ⓘ The drawing shows Single Acting: Without Air
Double Acting: With Air in Port B

Part Name	Material	Surface Treatment
Body	5056 Aluminum Alloy	Clear Anodize
Fingers / Attachment Mounting Parts	1045 Carbon Steel or Equivalent	Nitride Treatment

Part Number	Selection		Dimensions (mm)												Mass (g)			Sensor Slot											
	Type	Stroke	A ₁	A ₂	A ₃	A ₄	L ₁	L ₂	L ₃	L ₄	L ₅	H ₁	H ₂	H ₃	H ₄	H ₅	W ₁		W ₂	T ₁	T ₂	d ₁	d ₂	m ₁	m ₂	K ₁	P ₁	P ₂	P ₃
ACHE	4	N	22	12	13.6	14.4	33.5	16.5	22.5	5.5	1.5	24	13	2.5	5	2.5	10	4	3.1	1.5	6	2.2	3	3	6	20	16	4	No
	6	—	25	16	18	16.4	38.5	17.5	26	6.5	2	27	15	3	6	3	14	—	4.1	2	10	3.2	3	5	6	23.2	17.2	5	
ACHK	4	N	20	12	10	14.4	40.5	23.5	29.5	5.5	1.5	24	13	2.5	5	2.5	10	6	3.1	1.5	5	2.2	2.6	3	4	20	16	4	Yes
	6	D	23	16	18	16.4	45	23	32.5	6.5	2	27	15	3	6	3	16.4	12	4.1	2	6	3.2	3	3	6	23.2	17.2	5	

Part Number	Stroke	Selection		Cylinder I.D.	Effective Gripping Force (N)		Allowable Static Load (N)		Mass (g)	Sensor Slot
		Single Acting	Double Acting		Single Acting – Spring	Double Acting	F ₁	F ₂		
ACHE	4	N	—	8	4.2 (1)	—	5	2.5	17	No
	10			7.2 (1.3)	—	10	5	31		
ACHK	4	N	D	8	4.2 (1)	4.9	5	2.5	19	Yes
	10			10.4 (1.9)	12.2	10	5	37		

- ⓘ For the Specifications and Gripping Point Data, see Overview P.3575–3577
- ⓘ The Allowable Static Load values are for reference only, not guaranteed.
- ⓘ Effective Gripping Force shown with Air Pressure: 0.4 MPa and Holding Point: L=20 mm.
- ⓘ The directions of the Allowable Static Load are shown in F₁ and F₂ below.

Part Number Example

Part Number - Single / Double Acting

ACHK4 - N

Application Example

Gripper Attachments

Attachments for Pneumatic Grippers

Type	Material	Surface Treatment	Accessories
Fixed	ACHAT	1045 Carbon Steel or Equivalent	Tuffride®
Configurable	ACHATW	Electroless Nickel Plating	Hex Socket Head Cap Screw: 2 pcs. Locating Pin: 1 pc.

ⓘ The locating pin is press-fit into the pin hole before shipping.

Gripper (Nominal)	T ₁	T ₂	P ₁	P ₂	P ₃	G	K ₁	K ₂	M ₁	M ₂	d
4	4	4	5	2.5	5	2.5	5	6.5	M2	M2	2.4
6	5.2	5	6	3	5.7	3	5.5	6.7	M3	M2.5	2.9

Common Dimension

ⓘ P indicates points where the workpiece is gripped.

ⓘ Gripping Position indicate when air is in Port A.

ⓘ The closing allowance is 0.3mm on each side.

ⓘ The Configurable Type may have a centering hole on end faces.

Fixed

Part Number	Type	Gripper (Nominal)	L	P	W	W ₁	W ₂	Z	A	X ₁	X ₂	Applicable Gripper
												ACHAT
		6	14	7.4	24.4	23.2	29.8	2.7	11.8	2.9	5.9	

Configurable

Part Number	Type	Gripper (Nominal)	L 1mm Increment	P			W	W ₁	W ₂	Z	A	X ₁	X ₂	Applicable Gripper
				0.6	8.6	16.6								
ACHATW		4	12–18	0.6	8.6	16.6	24.6	P+11.4	28	1.7	12	3.5	6	ACHK4- ACHE4-N
		6	14–25	0.6	7.4	14.2	24.6	P+15.8	30	2.7	12	3	6	ACHK6- ACHE6-N

Part Number Example

Part Number - L - P

ACHAT4
ACHATW4 - L13 - P8.6

Application Example

The length and width of the attachments are configurable.