



TECHMAN ROBOTS Official Certified Gripper 3-Finger Type (TECHMAN)

RCKL-TM Series

With Speed Controller, Cylinder Switch
Connection Port Diameter: $\phi 4$ One-touch Fitting



For suitable detailed model No.s, please see our website.

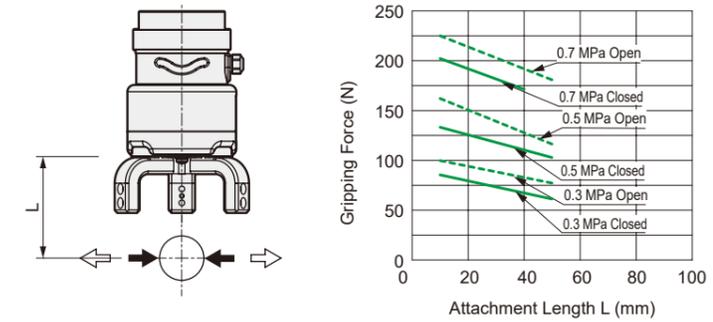
RCKL-TM Series

Gripping Force Performance Data/External Dimensions

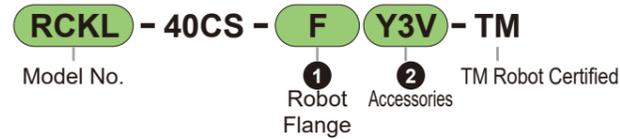
Gripping Force Performance Data

- Gripping force represents the thrust (for one finger) in the direction of the arrow shown in the figure.
- This represents the gripping force acting in the opening and closing directions at a gripper's attachment length L when the supply pressure is 0.3, 0.5, and 0.7 MPa.

Open direction (←) ----- (broken line)
Closing direction (→) ----- (solid line)



Model No. Notation Method



① Robot Flange

Code	Content
Blank	No Robot Flange
F	With Robot Flange

Note) Robot flange mounting bolts included

② Accessories

Code	Content
Blank	No Attachments
Y3	Attachment
V	Directional Control Valve · Tube

*1 Material is aluminum alloy. (Weight is 50 g per piece)

*2 The directional control valve is a $\phi 4$ one-touch fitting (air supply port, A/B port) with silencer (R1/R2 port) and mounting plate. Tubes are $\phi 4$ outer diameter, 2.5 m length x 2 pieces.

Specifications

Item	RCKL
Bore size	mm $\phi 40$
Actuation method	Double Acting Type
Operating Fluid	Compressed Air
Max. Operating Pressure	MPa 0.7
Min. Working Pressure	MPa 0.3
Port Size	$\phi 4$ One-touch Fitting
Ambient Temperature	$^{\circ}\text{C}$ 5 to 50
Operating Stroke	mm 10
Repeatability	mm ± 0.01
Weight	kg 1.1
Indicator LED	Blue/Green
Cylinder Switch	With T2H (Red LED ON when lit)

Note) For attachments manufactured to match workpieces, refer to P. 568.

[Switch Specifications]

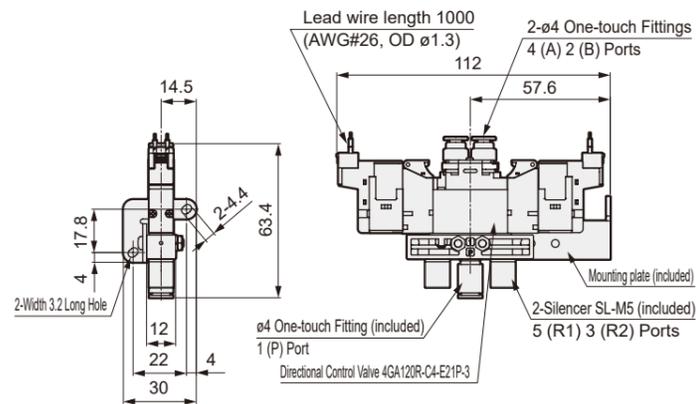
Item	Solid state 2-wire type	
	F2H	T2H
Applications	For programmable controller only	
Load Voltage/Current	10 to 30 VDC, 5 to 20 mA	
Leakage current	1 mA or less	
Shock resistance	980 m/s ²	
Weight	g 10	18

[Directional Control Valve (V) Specifications]

Item	4GA120R-C4-E21P-FLA28482-3-ST
Valve Type and Operation Method	Pilot Operated Soft Spool Valve
Switching Position Classification	2-position double solenoid
Max. Operating Pressure	MPa 0.7
Min. Working Pressure	MPa 0.2
Ambient Temperature	$^{\circ}\text{C}$ -5 to 55 (No freezing)
Fluid Temperature	$^{\circ}\text{C}$ 5 to 55
Manual Override	Non-lock/Lock Common Type
Response Time	ms 9
Flow Characteristics	P → A/B: C=1.2, b=0.47 A/B → R1/R2: C=0.72, b=0.37
Rated voltage	V 24 VDC
Voltage Fluctuation Range	$\pm 10\%$
Holding Current	A 0.017
Power Consumption	W 0.40
Surge Suppressor	Built-in
Indicator	Built-in Lamp

For other specification products, please refer to "Directional Control Valve ① (No.RJ-011AA)".

Outline Dimension Drawing



Outline Dimension Drawing

