



TECHMAN ROBOTS Official Certified Gripper Long Stroke Type (TECHMAN)

RHLF-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.

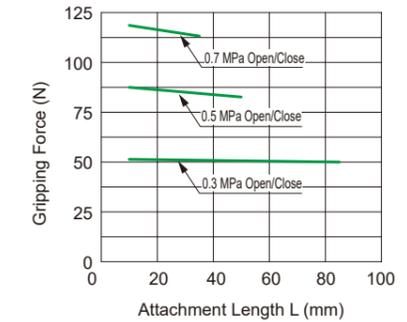
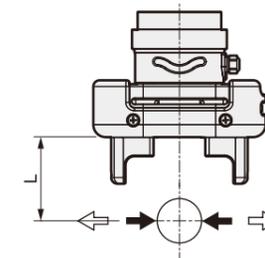
RHLF-TM Series

Gripping Force Performance Data/External Dimensions

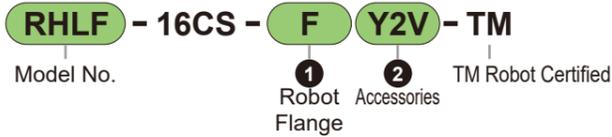
Gripping Force Performance Data

- 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 (\leftarrow), closed direction (\rightarrow) (solid line)



Model No. Notation Method



① Robot Flange

Code	Content
Blank	No Robot Flange
F	With Robot Flange ^(Note)

^(Note) Robot flange mounting bolts included

② Accessories

Code	Content
Blank	No Attachments
Y2	Attachment for testing ^{*1}
V	Directional Control Valve · Tube ^{*2}

^{*1} Made of resin, so use for gripping tests. (Weight is 30 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		RHLF
Bore size	mm	$\phi 16 \times 2$
Actuation method		Double Acting Type
Operating Fluid		Compressed Air
Max. Operating Pressure	MPa	0.7
Min. Working Pressure	MPa	0.2
Port Size		$\phi 4$ One-touch Fitting
Ambient Temperature	$^{\circ}\text{C}$	5 to 50
Operating Stroke	mm	32
Repeatability	mm	± 0.03
Weight	kg	1.0
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]

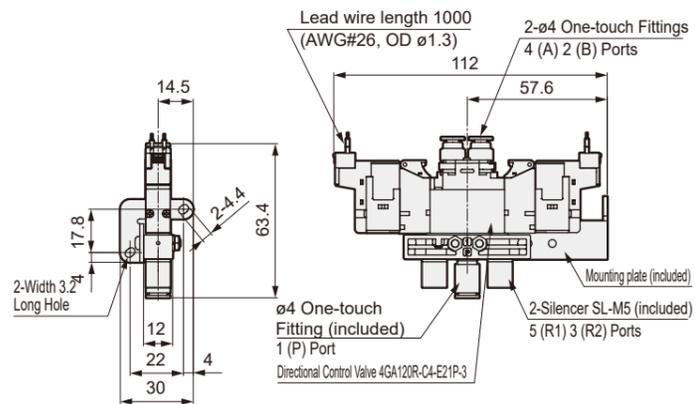
Item	Solid state 2-wire type	
	F2H	T2H
Applications	For programmable controller only	
Load Voltage/Current	10 to 30 VDC, 5 to 20 mA	
Leakage current	1 mA or less	
Shock resistance	980 m/s ²	
Weight	g	10 18

[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 \rightarrow A/B: C=1.2, b=0.47 C [dm ³ / (s·bar)], b
A/B \rightarrow 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

