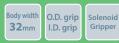
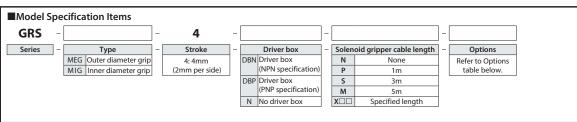
# **GRS-MEG/MIG**





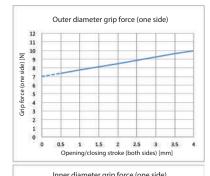


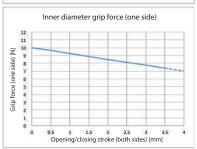




- (1) For outer diameter grip, it opens when conductive and closes when not conducting (normally closed). For inner diameter grip, it closes when conductive and opens when not conducting (normally open).
- (2) Since a spring is used for the grip mechanism, the grip force changes depending on the open/closing stroke of the fingers.
- (3) To operate the solenoid gripper, a driver box is essential. Please refer to P.8 for specification details.
- (4) Please refer to P.9 for gripper selection.

# Correlation Diagram of Grip Force and Opening/Closing Stroke





(Note) The grip force changes depending on the open/closing stroke of the fingers.

# Actuator Specifications

Solenoid gripper cable lengt

Model	Grip direction	Max grip force (N)	Stroke (mm)
GRS-MEG-4-①-②-③	Outer diameter	20	4
GRS-MIG-4-1-2-3	Inner diameter	(10 per side)	(2 per side)

Legend ① Driver box ② Cable length ③ Option

# Stroke and Operation Time

Stroke (mm)	Operating time [Open/close] (s)
4	0.03 or less

Soletion gripper cable length	
Type	Solenoid gripper cable code
Standard type	<b>P</b> (1m)
	<b>S</b> (3m)
	<b>M</b> (5m)
Specified length	X06(6m) ~ X10(10m)
	X11(11m) ~ X15(15m)

<sup>\*</sup> Robot cable specification option is not available.

### Option

Name	Option code	Reference page
Actuator cable (pigtail cable) length: 2 m	AC2	
Actuator cable (pigtail cable) length: 5 m	AC5	
Cable exit direction (Top)	CJT	
Sensor attached x 1 (NPN specification) (*1)	S1N	
Sensor attached x 2 (NPN specification) (*1)	S2N	See P.7
Sensor attached x 1 (PNP specification) (*1)	S1P	
Sensor attached x 2 (PNP specification) (*1)	S2P	
Rubber cover attached (chloroprene rubber)	RCH	
Rubber cover attached (silicone rubber)	RSL	

<sup>(\*1)</sup> Driver box: for DBN, only S1N and S2N can be selected. Driver box: for DBP, only S1P and S2P can be selected.

# Actuator Specifications

Item	Description
Max grip force	20N, one side 10N
Operating time	0.03s or less
Operation frequency	120CPM
Mass	0.27kg

CPM: Cycle per minute

Item	Description
Drive system	Grip mechanism (chuck): Compression spring + cam mechanism
	Release mechanism (unchuck): Solenoid electromagnetism + cam mechanism
Repeatability	±0.1mm
Backlash	One side 0.5mm or less
Finger guide	Slide guide
Ambient operating temp. & humidity	0 to 40°C, 85% RH or less (Non-condensing)
Degree of protection	IP20
Vibration resistance / shock resistance	4.9m/s <sup>2</sup> 100Hz or less
Compliant international standards	CE marking, RoHS Directive
Delivery date	Indicated in "Check Delivery Date" on the website

#### Dimensions



\*1 The actuator cable (pigtail cable) is a robot cable.

The actuator cable (pigtail cable) standard length is 1m.

Can be changed to 2m or 5m as an option (model: AC2/AC5).

