HG Series Long Stroke Parallel Hand

Long Stroke, Light Weight, and Compact Design

Key Features

■Extra-long stroke gripper

Extra-long stroke via large lever ratio of cam

- Light-weight and compact design
 - Light-weight and slim body
- **Easy mounting**

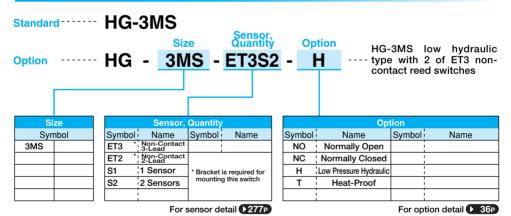
The gripper can be mounted and operated in any orientation via 3 mounting surfaces

Switch slots available for sensing jaw position (open or closed)

All the sizes available for direct switch mount (up to 2 switches)



How To Order

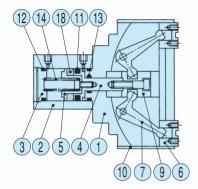


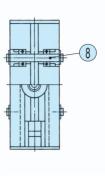
Specification

Model	HG-3MS For Layout Drawing ▶115₽			
Working Pressure	Pneumatic: 0.3 to 0.7MPa			
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)			
Ambient Temperature (°C)	5 to 60			
Total Jaw Stroke (mm)	56			
Cylinder Diameter (mm)	dia.25			
Rod Diameter (mm)	dia.10			
Internal Volume [Reciprocation] (cm ³ /time)	11.8			
Repeatability (mm)	±0.03			
Weight (kg)	0.85			

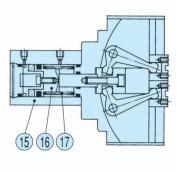
Internal Structure / Parts & Seals

■Standard (Double-Acting) & NO(Single Acting -Normally Open)





■NC(Single Acting - Normally Closed)



■Parts List

No.	Name	Material	No.	Name	Material	No.	Name	Material
1	Body	Aluminum	8	Fulcrum Shaft	Carbon Steel	15	NC Cylinder	Aluminum
2	Cylinder	Aluminum	9	Operating Ring	Stainless Steel	16	NC Piston	Stainless Steel
3	Cylinder Cover	Resin	10	Side Cover	Stainless Steel	17	NC Spring	Stainless Steel Wire
4	Piston A	Stainless Steel	11	Piston Seal		18	Magnet	
5	Piston B	Aluminum	12	Cylinder Seal				
6	Master(Base) Jaw	Carbon Steel	13	Rod Seal				
7	Arm	Carbon Steel	14	NO Spring	Stainless Steel Wire			

■Seals List

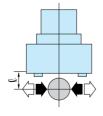
No.	HG-3MS
11	PSD-25
12	P-21, S-24
13	MYA-10

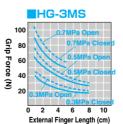
Performance Data

■Grip Force

The graph shows grip force in opening and closing with effective external finger lengths ℓ from gripper cover surface under different air pressure (MPa)

Open (⟨¬) -----Closed (➡)





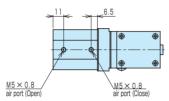


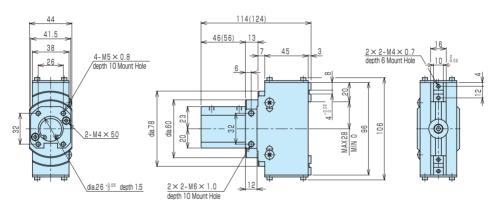
Layout Drawing

HG-3MS (Optimal Grip Force 30N to 60N)

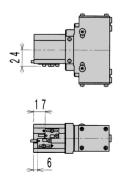
HG-3MS Standard • NO • NC

*Values inside () are for NC (Normally Closed) type





HG-3MS-E S





For CAD data, please go to F518P