

# HB Series Angular Hand

## Light-Weight and Compact with Cost in Mind

### Key Features

#### ■ Cost-minded gripper

Light weight and high grip force

#### ■ 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)

2 reed switches can be mounted on all the gripper sizes (except HB-1M)



HB-2MS

### How To Order

Standard ----- **HB-1M**

Option ----- **HB - 2MS - ET3S2 - FE** ----- Iron body of HB-2MS with 2 of ET3 non-contact reed switches

Size	
Symbol	
1M	
2MS	
3MS	
4MS	

Sensor, Quantity			
Symbol	Name	Symbol	Name
ET3	*1 Non-Contact 3-Lead		
ET2	*1 Non-Contact 2-Lead		
S1	1 Sensor		* Bracket is required for mounting this switch
S2	2 Sensors		

Option			
Symbol	Name	Symbol	Name
NO	Normally Open	SUA	*1 All Stainless Steel
NC	Normally Closed	T	*1 Heat-Proof
FE	Iron Body	F	*3 Front-Type Sensor
H	*1, *2 Low Pressure Hydraulic		*1 Except 1M *2 Except 2MS
SU	*1 Stainless Steel for Iron Material		*3 Available only for 1M

For sensor detail ▶ 277P

For option detail ▶ 36P

### Specification

Model	HB-1M	HB-2MS	HB-3MS	HB-4MS
	For Layout Drawing ▶ 171P	For Layout Drawing ▶ 171P	For Layout Drawing ▶ 172P	For Layout Drawing ▶ 172P
Working Pressure	Pneumatic: 0.3 to 0.7MPa			
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)			
Ambient Temperature (°C)	5 to 60			
Opening Angle	-5 to 20°			
Cylinder Diameter (mm)	dia.15	dia.20	dia.25	dia.40
Rod Diameter (mm)	dia.8	dia.10	dia.12	dia.14
Internal Volume [Reciprocation] (cm <sup>3</sup> /time)	0.5	2.2	4.3	14.16
Repeatability (mm)	±0.03			
Weight (kg)	0.09	0.22	0.39	0.82