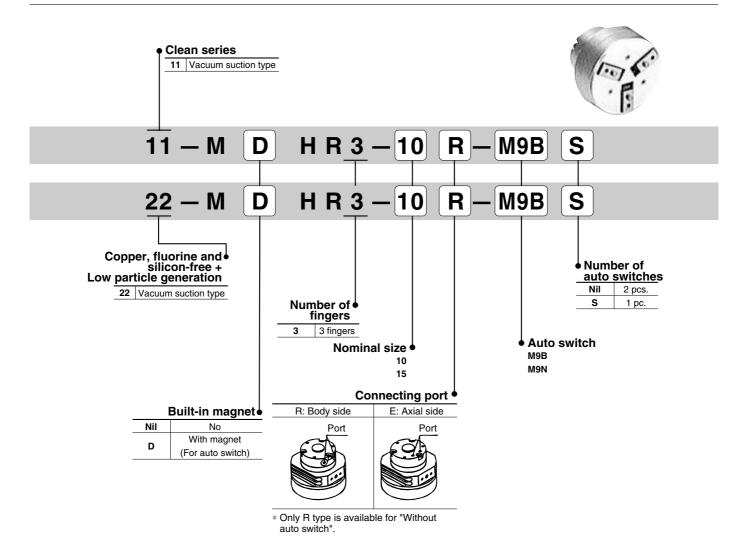
# Series 11-VHR3 3 finger rotary actuated air gripper Size: 10, 15

### **How to Order**



# Model

Model		Nominal	Port	Lubrication	Action	Gripping force N (Effective value at 0.5 MPa) *		Opening / Closing stroke (Diameter)		
		size	size	Lubilcation		External gripping force	Internal gripping force	Finger closing width (mm)	Finger opening width (mm)	Stroke (mm)
Vacuum suction type	<sup>11-</sup> <sub>22</sub> -MHR3-10 <sup>11-</sup> <sub>22</sub> -MDHR3-10	10	M2 v 0 5	x 0.5 Non-lube	Double	7	6.5	16	22	6
	<sup>11-</sup> <sub>22-</sub> MHR3-15 <sup>11-</sup> <sub>22-</sub> MDHR3-15	15	IVIS X U.S			13	12	19	27	8

<sup>\*</sup> Refer to Best Pneumatics catalog for details of gripping force at each gripping point. Value of effective gripping force is measured at the middle of opening / closing stroke.

### **Specifications**

Nominal size	10	15	
Operating pressure	0.2 to 0.6MPa	0.15 to 0.6MPa	
Ambient and fluid temperature	0 to 60°C		
Repeatability	±0.01mm		
Maximum operating frequency	180 c.p.m.		
Grease	11-: Fluorine grease		
diedee	22-: Lithium soap based grease		
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	11-/22-: Grade 1		

# Suction flow rate of vacuum suction type (Reference values)

Size	Suction flow rate ℓ/min (ANR)
10/15	10



### Auto switch specifications (Refer to Best Pneumatics catalog for further information on auto switches.)

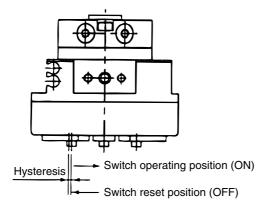
Туре		Auto switch model	Load voltage	Load current range	Indicator light	Applicable load	
Solid state	2-wire	D-M9B(V)	24 VDC (10 to 28 VDC)	5 to 30 mA	Yes	24 VDC relay, PLC	
switch	3-wire	D-M9N(V)	28 VDC or less	50 mA or less	Yes	24 VDC lelay, PLC	

Refer to page 235 for a list of applicable auto switches.

PLC: Programmable Logic Controller

### **Auto switch hysteresis**

### 11-22- MDHR3



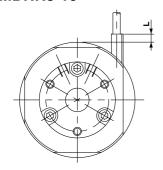
Please refer to the table as a guide when setting auto switch positions.

Model	Hysteresis (Max. value) (mm)		
11-MDHR3-10	0.3		
<sup>11-</sup> <sub>22-</sub> MDHR3-15	0.5		

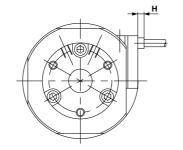
# Protrusion of auto switch from edge of body

• The maximum protrusion of auto switch (when fingers are fully open) from the edge of the body is shown in the table below. Use the table as a guideline for mounting.

### 11-22- MDHR3-10





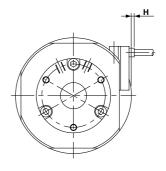


When auto switch D-M9□V is used

### Max. protrusion of auto switch from edge of body: L,H (mm)

Auto switch model	<b>D-M9</b> □	D-M9□V
L	_	_
Н	_	2.3

### 11-22- MDHR3-15



When auto switch D-M9 $\square$ V is used

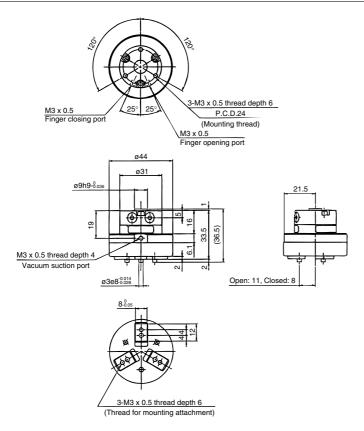
### Max. protrusion of auto switch from edge of body: $H_{(mm)}$

	- , ,
Auto switch model	D-M9□V
Н	1.3

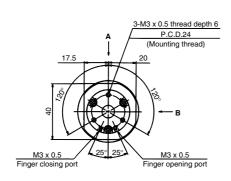
The auto switch will not protrude in the case of D-M9□.

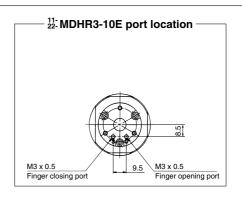
# Rotary actuated air gripper 22-MHR3

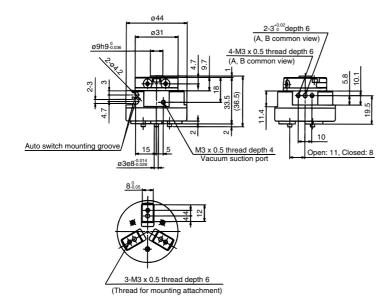
### Without auto switch: 22-MHR3-10R



# With auto switch: 11- MDHR3-10R

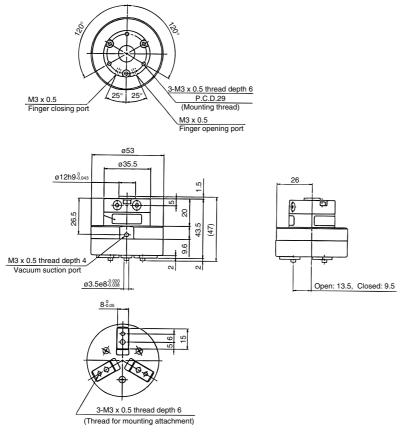






Pressure switch

### Without auto switch: 22 MHR3-15R



### With auto switch: 22-MDHR3-15R

