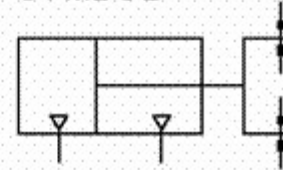


# TANAIR PNEUMATICS

## GRIPPERS HOW TO ORDER GUIDE



### ☉→SYMBOL



### ☉→FEATURES :

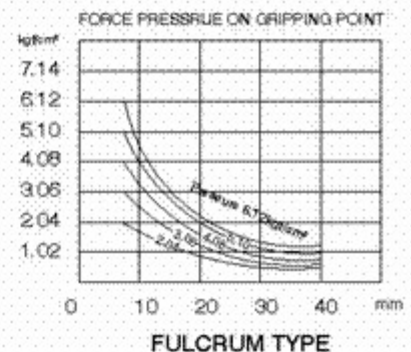
- Identically SMC mounting hole.
- Precise and no vibration.
- Endurable and strong mechanism
- SUS440C grippers provide a long life of products.

### ☉→SPECIFICATION

Bore size	Ø16		Ø20		
Port size	M5 x 0.8P				
Gripper gap distance	Wide type	Open: 22mm	Close: 14mm	Open: 26mm	Close: 16mm
	Narrow type	Open: 15.2mm	Close: 7mm	Open: 17.2mm	Close: 7.7mm
Inward holding force - HPS series	4.1 kgf/cm <sup>2</sup>		6.7kgf/cm <sup>2</sup>		
Outward holding force - HPS series	3.1 kgf/cm <sup>2</sup>		4.3 kgf/cm <sup>2</sup>		
Fluid	Compressed air				
Operating	Double acting				
Operation pressure	Fulcrum type: 1.0 ~ 6.1kgf/cm <sup>2</sup> Parallel type: 1.0 ~ 7 kgf/cm <sup>2</sup>				
Max. pressure	7 kgf/cm <sup>2</sup>				
Lubrication	Free				
Body material	Aluminum alloy (6061T6)				
Gripper material	SUS440C				
Magnets	Built-in				
Working temperature	0 °C ~ 60 °C				
Operating frequency	HPS series: 160cpm, HYS: 190CPM				
Fulcrum type gripper angle	10 ° ~ 30 °				

### ☉→HOW TO ORDER

<b>HPS</b>	<b>16</b>	<b>N</b>	<b>SR1</b>
Mini chuck HPS: Parallel type HYS: Fulcrum type	Bore size 16: Ø16 20 :Ø20	Blank: for HYS only N: Narrow type for HPS W: wide type for HPS	SR1: 1 Sensor SR2: 2 Sensor Sensor code: AL-07R



# TANAIR PNEUMATICS

## GRIPPERS HOW TO ORDER GUIDE



### ☞ FEATURES

- The mini chuck designed by on thin cylinder body to processed the location pins hole to install the finger and action lever. When the piston rod forced by air to up to down, the top of action lever or finger will be moving to open and close.
- This mini chuck body small and thin can save much space and offer multi-mounting to option.
- The sensor switch can be option.

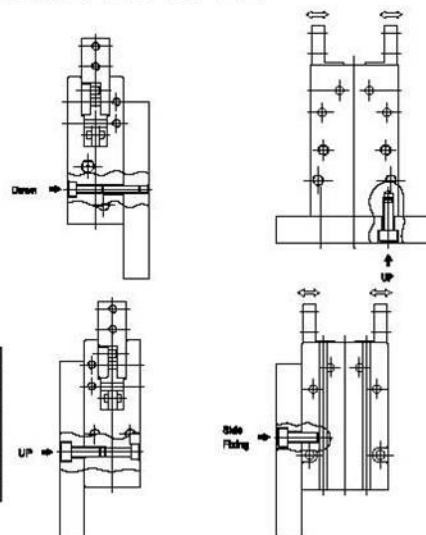
### ☞ SPECIFICATION

Bore size	Ø10	Ø16	Ø20	Ø25	Ø32
Port size	M3 x 0.5P		M5 x 0.8P		
HPC operation distance	4mm	8mm	12mm	14mm	16mm
HPC Holding force	0.5 kgf/cm <sup>2</sup>	1.8 kgf/cm <sup>2</sup>	3.5kgf/cm <sup>2</sup>	6.0 kgf/cm <sup>2</sup>	8.5 kgf/cm <sup>2</sup>
Operating angle	- 10 ° ~ + 30 ° for HYC type				
Fluid	Compressed air				
Operating	Double acting				
Operation pressure	1.5 ~ 7 kgf/cm <sup>2</sup>				
Max. pressure	10.5 kgf/cm <sup>2</sup>				
Lubrication	Free				
Tubing material	Aluminum alloy				
Magnets	Built-in				
Working temperature	0 ° C ~ 60 ° C				
Piston speed mm/sec.	50 ~ 700				

### ☞ HOW TO ORDER

<b>HYC</b>	<b>32</b>	<b>SR1</b>
Mini chuck HYC: Fulcrum type HPC: parallel type	Cylinder size 10 Ø10 16 Ø16 20 Ø20 25 Ø25 32 Ø32	SR1: 1 Sensor SR2: 2 Sensor Sensor code: AL-07R

### ☞ MOUNTING EXAMPLE



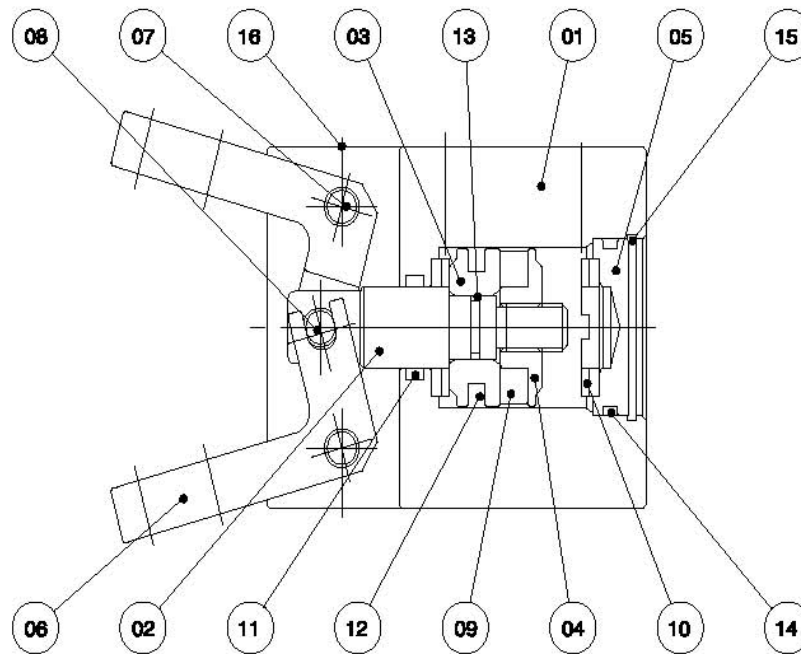
### ☞ THEORETICAL FORCE

Bore Size (mm)	Piston Area (cm <sup>2</sup> )	Operation Pressure ( kgf/cm <sup>2</sup> )					
		2	3	4	5	6	7
10	0.79	1.58	2.37	3.16	3.95	4.74	5.53
16	2.01	4.02	6.03	8.04	10.50	12.06	14.07
20	3.14	6.28	9.42	12.56	15.70	18.84	21.98
25	4.91	9.82	14.73	19.64	24.55	29.46	34.37
32	8.04	16.08	24.12	32.16	40.20	48.24	56.28

# TANAI R PNEUMATICS

## GRIPPERS DIMMENSIONS

© → MATER OF PARTS



NO.	Description	Material	Quantity	NO.	Description	Material	Quantity
1	Body	Aluminum alloy	1	10	Impact packing	NBR	2
2	Rod	Carbon steel	1	11	Rod packing	NBR	1
3	Piston	Aluminum alloy	1	12	Piston packing	NBR	1
4	Magnet holder	Aluminum alloy	1	13	Piston O-ring	NBR	1
5	Head cover	Aluminum alloy	1	14	End cover O-ring	NBR	1
6	Lever	Carbon steel	2	15	Snop ring	Spring steel	1
7	Fulcrum pin	Bearing steel	2	16	Hexagon screw	Carbon steel	2
8	Incoming pressure pin	Bearing steel	2				
9	Magnetic	Ferrite magnets	1				

\*Rod and piston with SAKAGAMI packings