MEPAC (Parallel air chuck)

All-purpose type

MEPAC parallel air chuck all-purpose type succeeded excellent functions of MEPAC series, and was designed to be more user-friendly, and compatible to broader range of applications. We received a favorable reception since release in 1986 and we are making an achievement as a chucking parts for general industrial machinery such as automatic assembly machine and carrier devices, including industrial robots.

		St	roke (mm)	
	6	8	10	12	16
Single action Constantly open (NO)	×	×	×	×	×
Single action Constantly closed (NC)	×	×	×	×	×
Reciprocating	×	×	×	×	×
Single action (NO) With sensor	(2)	(2)	(2)	(2)	(2)
Single action (NC) With sensor	(2)	(2)	(2)	(2)	(2)
Reciprocating With sensor	(2)	(2)	(2)	(2)	(2)

^{*} The figure within () stands for the number of open end detection sensor installations (max).

Original mechanism with which we are proud of the light operation

In addition to highly efficient swing action lever structure, engaging phenomena was suppressed by adopting ultra-small precision roller to the sliding part and achieving light operation. Excellent high-speed responsiveness, maintain high efficiency and exercise sufficient clamp force.

The number of sensors can be selected.

With one sensor or two sensors. The number of sensors to set to the main unit can be selected at ordering. Operation of the chuck uses the method to notify by switching ON and lightening the luminous diode. Operation can be checked, therefore, it is highly reliable design allowing handling at ease.

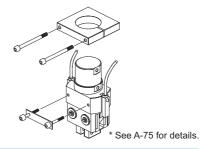


Received recognition for always stable clamp performance

MEPAC is parallel open and close motion with the constant contact surface of the chuck. Stable chucking even when there is variation in clamp dimension and with different shape.

Excellent installation characteristics

By fixing shank part of the body, position adjustment of height and rotation direction is possible. In addition, it is possible to perform side installation by using mounting tap on the side.





■ Open/Close operation

Reciprocating

When the air comes in from Port A, the large piston pivots the action lever and [Close] the finger tooling.

When the air comes in from the Port B, the small piston pivots the action lever and [Open] the finger tooling.

Single action

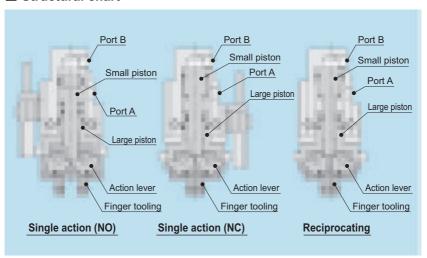
For constantly open (NO), spring is built-in on the upper part of the small piston and open by air OFF.

When the air comes in from Port A, the large piston pivots the action lever to [Close].

For constantly close (NO), spring is built-in between the large piston and the small piston, and close by air OFF.

When the air comes in from Port B, the small piston pivots the action lever and [Open] the finger tooling.

■ Structural chart



SERIAL SEOT

HK-40MS

HK Series Cross Roller Parallel Hand

Smooth Motion via Bearings

Key Features

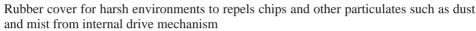
■High accuracy and smooth operation with cross roller guide

Cross roller bearing used in the sliding material provides high accuracy and smooth motion

■Compact body and high rigidity

Telescopic slides and bearing retainers to provide high moments to size ratio

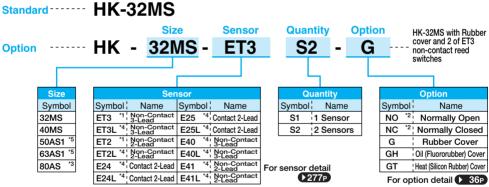
■Protective rubber cover (option) for use in dusty and harsh environments



Oil-resistant sensors (option)

Oil-resistant sensors available (option) for HK-50AS1, 63AS1, and 80AS

How To Order



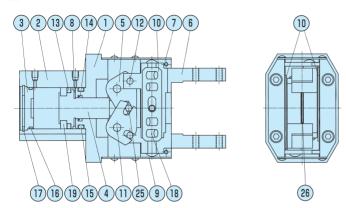
- *1 Bracket is required to mount this switch (except HK-50AS1, 63AS1, and 80AS)
- *2 Except HK-80AS
- *3 There is no 80AS1. HK-80AS is correct model number
- *4 Available only for HK-50AS1, 63AS1, 80AS
- *5 There is no 50AS and 63AS. HK-50AS1 and 63AS1 are correct model number

Specification

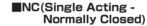
Model	HK-32MS	HK-40MS	HK-50AS1	HK-63AS1	HK-80AS					
Model	For Layout Drawing 120p	For Layout Drawing 121p	For Layout Drawing 122P	For Layout Drawing 123P	For Layout Drawing 124p					
Working Pressure	Pneumatic:	Pneumatic: 0.1 to 0.7 MPa(0.3 to 0.7MPa for NO & NC types) Pneumatic: 0.3 to 0.7MPa								
Lubrication		Not Required	or Turbine Oil Class	s 1 (ISOVG32)						
Ambient Temperature (°C)										
Total Jaw Stroke (mm)	24	24 30 36 40		40	60					
Cylinder Diameter (mm)	dia.32	dia.40	dia.50	dia.63	dia.80					
Rod Diameter (mm)	dia.16	dia.20	dia.28	dia.32	dia.16					
Internal Volume [Reciprocation] (cm3/time)	25.3	49.5	89.4	162.9	354.5					
Repeatability (mm)	±0.01									
Weight (kg)	1.36	1.95	4.2	5.4	10.6					

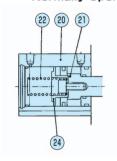
Internal Structure / Parts & Seals

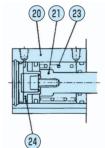
■Standard



■NO(Single Acting - Normally Open)







■Parts List

No.	Name	Material	No.	Name	Material	No.	Name	Material
1	Body	Aluminum	10	Retainer A	Stainless Steel	19	Magnet	
2	Cylinder	Aluminum	11	Fulcrum Shaft	Carbon Steel	20	NO & NC Cylinder	Aluminum
3	Cylinder Cover *	Resin	12	Operating Shaft B	Carbon Steel	21	NO & NC Piston A	Stainless Steel
4	Piston	Aluminum & Stainless Steel	13	Piston Seal		22	NO Spring	Stainless Steel Wire
5	Arm	Carbon Steel	14	Rod Seal		23	NC Spring	Stainless Steel Wire
6	Master(Base) Jaw	Carbon Steel	15	Cylinder Seal A		24	NO & NC Piston B	Aluminum
7	Bearing Guide	Carbon Steel	16	Cylinder Seal B		25	Operating Shaft A	Carbon Steel
8	Cushion	Resin	17	Snap Ring	Stainless Steel		Retainer B	Stainless Steel
9	Side Cover	Stainless Steel	18	Roller	High-Carbon Chromium Bearing Steel			

*Aluminum for 50AS1 and 63AS1

■Seals List

No.	HK-32MS	HK-40MS	HK-50AS1	HK-63AS1	HK-80AS
13	PSD-32	PSD-40	PSD-50	PSD-63	PSD-80
14	MYA-16	MYA-20	PNY-28	PNY-32	MYA-16
15	P-26	G-35	G-45	G-60	G-75
16	S-29	S-36	S-46	S-60	

Thin Parallel Hand with Rubber Cover

Key Features

Cross roller

Cross roller bearing guide provides smooth motion and high accuracy

■Long stroke for compact body

Low profile body design

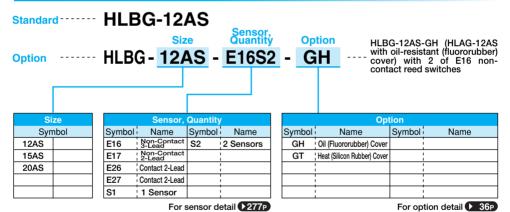
Long stroke for handling multiple workpieces in different sizes

Protective rubber cover for use in dusty and harsh environments

Rubber cover to improve protection from harsh environments to repels chips and other particulates such as dust and mist from internal drive mechanism



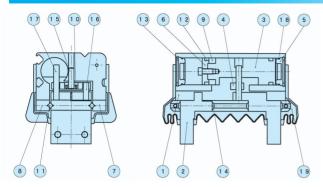
How To Order



Specification

Model	HLBG-12AS For Layout Drawing 141P	HLBG-15AS For Layout Drawing 141P	HLBG-20AS For Layout Drawing 142P					
Working Pressure	Pneumatic: 0.1 to 0.7MPa							
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)							
Ambient Temperature (°C)		5 to 60						
Total Jaw Stroke (mm)	mm) 13 18		23					
Cylinder Diameter (mm)	dia.12	dia.15	dia.20					
Internal Volume [Reciprocation] (cm ³ /time)	1.47	3.18	7.22					
Repeatability (mm)	±0.01							
Weight (g)	240	420	750					

Internal Structure / Parts & Seals



■Parts List

No.	Name	Material	No.	Name	Material	No.	Name	Material
1	Body	Aluminum	8	Bearing Guide B	Carbon Steel	15	Parallel Pin	Carbon Steel
2	Master(Base) Jaw	Carbon Steel	9	Magnet		16	Needle Roller A	High-Carbon Chromium Bearing Steel
3	Piston	Stainless Steel	10	Small Diameter Ball Bearing		17	Needle Roller B	High-Carbon Chromium Bearing Steel
4	Cam	Stainless Steel	11	Cross Roller	High-Carbon Chromium Bearing Steel	18	Cylinder Seal	,
5	Cylinder Cover	Resin	12	Piston Seal		19	Rubber Cover	
6	Magnet Holder	Resin	13	Snap Ring	Stainless Steel			
7	Bearing Guide A	Carbon Steel	14	Small Truss Head Screw	Stainless Steel			

■Seals List

No.	HLBG-12AS	HLBG-15AS	HLBG-20AS
12	MYA-9	MYA-11	MYA-16
18	dia.10×dia.1	dia.14×dia.1	dia.18×dia.1

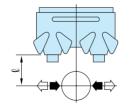
Performance Data

■Grip Force

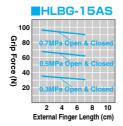
The graph shows grip force in opening and closing with effective external finger lengths ℓ from gripper cover surface under different air pressure (MPa)

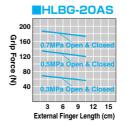
Open (⟨□)

Closed (⇒)





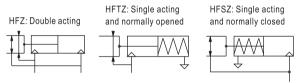




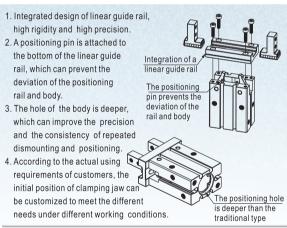




Symbol



Product feature

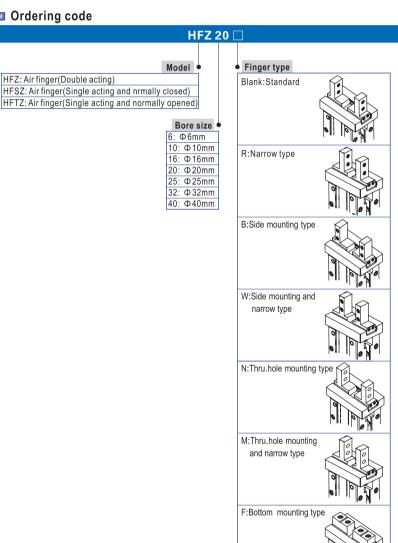


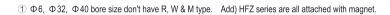
Specification

Bore size	(mm)		6	10	16	20	25	32	40		
Acting type)			Double acting Single acting							
Fluid			Air(to be filtered by 40 μ m filter element)								
		Ф6, Ф10		0.2~0.7MPa(28~100psi)(2.0~7.0bar)							
Operating	acting	Others		0.15~0.7MPa(22~100psi)(1.5~7.0bar)							
pressure		Ф6, Ф10		0.35~0.7MPa(50~100psi)(3.5~7.0bar)							
	acting	Others	0.25~0.7MPa(36~100psi)(2.5~7.0bar)								
Temperatu	re °C		-20~70								
Lubrication	l		Not required								
Repeatabil	ity mm				± 0.01			±	0.02		
Max. frequ	ency		180(c.p.m) 60(c.p.m)						:.p.m)		
Sensor sw	itches 🤆	D	DS1-H CS1-G CS1-G, DS1-G, DS1-H								
Port size			$M3 \times 0.5$ $M5 \times 0.8$								

① Sensor switch should be ordered additionally, please refer to P457~480 for detail of sensor switch.

Ordering code





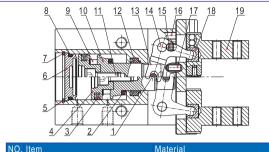




Airtac

HFZ Series

Inner structure and material of major parts



NO.	Item	Material
1	Pin	Stainless steel
2	Bumper	TPU
3	Piston seal	NBR
4	Piston	Aluminum alloy/Stainless steel
5	Body	Aluminum alloy
6	Back cover	Aluminum alloy
7	C clip	Spring steel
8	O-ring	NBR
9	Magnet	Sintered metal(Neodymium-iron-boron)
10	Piston rod	Aluminum alloy/Stainless steel
11	Screw	Carbon steel
12	Rod packing	NBR
13	Curved bar	Stainless steel
14	Pin	Stainless steel
15	Countersink screw	Carbon steel
16	Hexagon screw	Carbon steel
17	Pin	Stainless steel
18	Guide sleeve	Stainless steel
19	Assembly of clamping jaw and guide rail	Stainless steel

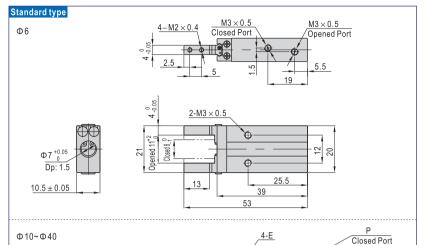
Gripping force and stroke

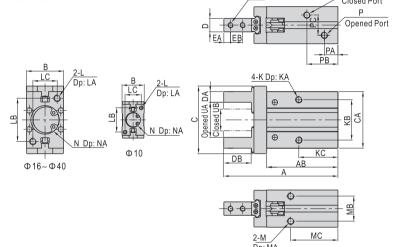
Acti	ng	Model		ce per finger valve(N)	Opening/Closing stroke	Weig	ght (g)
			External	Internal	(Both sides)(mm)	F Type	Others
		HFZ6	3.3	6.1	4	24	25
		HFZ10	11	17	4	56	56
5	2	HFZ16	34	45	6	124	124
Double acing	<u> </u>	HFZ20	45	68	10	236	236
g	2	HFZ25	69	102	14	418	428
G	3	HFZ32	160	195	22	750	729
		HFZ40	255	320	30	1340	1268
		HFTZ6	1.9	-	4	25	26
	z	HFTZ10	7	-	4	57	57
	Normally opened	HFTZ16	27	-	6	125	125
	₽	HFTZ20	35	-	10	238	238
	ope	HFTZ25	55	-	14	420	430
S.	ned	HFTZ32	133	-	22	799	778
ngle		HFTZ40	220	-	30	1437	1365
Single acting		HFSZ6	-	3.7	4	25	26
ing	_	HFSZ10	-	13	4	57	57
	orm	HFSZ16	-	38	6	125	125
	nally	HFSZ20	-	59	10	238	238
	Normally closed	HFSZ25	-	87	14	420	430
	sed	HFSZ32	-	163	22	799	778
		HFSZ40	-	270	30	1437	1365

Note) The gripping force in the above table is in the working pressure of 0.5MPa, and with a gripping point of L=20mm.

Add) Please refer to page 391 for the definition of "L".

Dimensions





Model\Item	A	AB	В	С	CA	D	DA	DB	Е	EA	EB
HFZ10	57	37.5	16.5	30	23	5 -0.05	4-0.05	12	$M2.5 \times 0.45$	3	5.7
HFZ16	67.5	42.5	23.5	39	30.5	8 -0.05	5-0.05	15	$M3 \times 0.5$	4	7
HFZ20	85	53	27.5	53	42	10 -0.05	8-0.05	20	$M4 \times 0.7$	5	9
HFZ25	103	64	33.5	71	52	12 -0.05	10_0.05	25	$M5 \times 0.8$	6	12
HFZ32	113(122)	67(76)	40	106	60	15 _{-0.05}	12 _{-0.05}	29	M6 × 1.0	7	14
HFZ40	139(152)	83(96)	48	132	72	18 _{-0.05}	14 _0.05	36	M8 × 1.25	9	17
Model\Item	V	VA V	B KC			1 / 1	D IC M		MA ME	1.4	C

Model\Item	K	KA	KB	KC	L	LA	LB	LC	M	MA	MB	MC
HFZ10	$M3 \times 0.5$	5	16	23	$M3 \times 0.5$	6	18	12	$M3 \times 0.5$	6	11.5	27
HFZ16	$M4 \times 0.7$	7	24	24.5	$M4 \times 0.7$	8	22	15	$M4 \times 0.7$	4.5	16	30
HFZ20	$M5 \times 0.8$	8	30	29	$M5 \times 0.8$	10	32	18	$M5 \times 0.8$	8	18.5	35
HFZ25	$M6 \times 1.0$	10	36	30	M6 × 1.0	12	40	22	$M6 \times 1.0$	10	22	36.5
HFZ32	$M6 \times 1.0$	10	46	40(49)	$M6 \times 1.0$	12	46	26	$M6 \times 1.0$	10	26	48(57)
HFZ40	M8 × 1.25	12	56	49(62)	M8 × 1.25	16	56	32	M8 × 1.25	12	32	58(71)

Model\Item		NA	P	PA	PB	PC	UA(Opened)	UB(Closed)
HFZ10	Φ11 ^{+0.05}	1.5	$M3 \times 0.5$	7	19	10	15.5 ⁺² ₀	11.5 -1
HFZ16	Φ17 ^{+0.05}	1.5	$M5 \times 0.8$	7.5	19	13	21 +2	15 ₋₁ 0
HFZ20	Φ21 ^{+0.05}	2	$M5 \times 0.8$	9.5	23	15	26.5 +2	16.5 ₋₁ 0
HFZ25	Φ26 ^{+0.05}	2	$M5 \times 0.8$	9	24	20	33.5 +2	19.5 -1
HFZ32	Φ34 ^{+0.05}	2.5	$M5 \times 0.8$	9.5	31(40)	24	48 ^{+2.5}	26 -1
HFZ40	Φ42 ^{+0.05}	2.5	$M5 \times 0.8$	10.5	38(50)	28	60 ^{+2.5}	30 -1

Note) The values in "()" in the above table are single acting type sizes.



HFZ

HFY Series



Symbol





Product feature

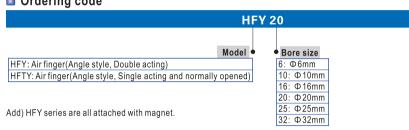
- 1. Using a single piston structure, large gripping torque.
- 2. Integrated with variable flow valve, it is easy and convenient to adjust the speed of opening and closing of gripping jaw.
- 3. Reasonable gripping angle, wide range of actual use.
- 4. Precise positioning accuracy, it is more accurate and reliable when gripping work-piece.
- Various types of installation, it is convenient for the use in different occasions.
- 6. All series are attached with magnet, so that it is easy to control.

Specification

Bore size	(mm)		6 10 16 20 25 32									
Acting type	•		Double acting Single acting									
Fluid Air(to be filtered by 40 μ m filter element)												
Onesation	Double a	icting		0.15	~0.7MPa(22	~100psi)(1.5~7	.0bar)					
Operating pressure	Single	Ф6	0.3~0.7MPa(45~100psi)(3.0~7.0bar)									
prosouro	acting	Ф10~Ф32	0.25~0.7MPa(36~100psi)(2.5~7.0bar)									
Temperatur	re °C				-2)~70						
Lubrication	ı		(Cylinder: Not	required;	Gripper jaws:	Lubricate grea	se				
Cushion typ	ре		Bumper									
Max. freque	ency	180(c.p.m)										
Sensor swi	Sensor switches ① DS1-H CS1-G、DS1-G											

① Sensor switch should be ordered additionally, please refer to P457~480 for detail of sensor switch.

Ordering code

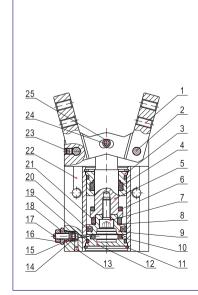


Gripping force and stroke

Acting	Model	Theoretical gripping	ng torque (N·cm)	Max. length of griping	Oponing angle	Closing angle	
Acting	Wodel	Closed	Opened	point (L)(mm)	Opening angle		
	HFY6	$7.4 \times P$	10.6 × P	30			
	HFY10	17.6 × P	29.4 × P	30			
Double acting	HFY16	90 × P	129 × P	40		-10 ₋₃ ⁰	
	HFY20	152 × P	252 × P	60			
	HFY25	304 × P	473 × P	70			
	HFY32	637 × P	904 × P	85	00+3		
	HFTY6	5.7 × P	-	30	30 ⁺³ ₀		
Single acting	HFTY10	11.8 × P	-	30			
Normally	HFTY16	71.2 × P	-	40			
	HFTY20	122.4 × P	-	60			
	HFTY25	252 × P - 70					
	HFTY32	589 × P	-	85			

Note) The P in the gripping torque shown in the above chart represents the actual use of air pressure.

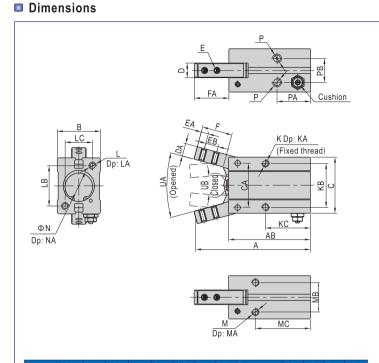
Inner structure and material of major parts



NO.	Item	Material
1	Gripping jaws	Carbon steel
2	Pin	Stainless steel
3	Front cover	Aluminum alloy
4	Rod packing	NBR
5	Piston rod	Aluminum alloy/Stainless steel
6	Bumper	TPU
7	Countersink screw	Carbon steel
8	Magnet washer	NBR
9	Piston	Aluminum alloy/Stainless steel
10	Bumper	TPU
11	C clip	Spring steel
12	Back cover	Aluminum alloy
13	Steel ball	Stainless steel
14	O-ring	NBR
15	O-ring	NBR
16	Screw cap	Carbon steel
17	Adjustable nut	Brass
18	Fixed nut	Brass
19	O-ring	NBR
20	Piston seal	NBR
21	Magnet	Sintered metal
21	Magnet	(Neodymium-iron-boron)
22	Body	Aluminum alloy
23	Countersink screw	Carbon steel
24	Pin	Stainless steel
25	Pin sheath	Stainless steel







Α	AB	В	С	CA	D	DA	E	EA	EB	F	FA
47.5	36	10.5	20	14	4	4	$M2 \times 0.4$	2.5	5	11	12
52.5	38.5	16.5	23	14	6.4	4	$M2.5\times0.45$	3	5.7	12	14.5
62.5	44.5	23.5	30.5	24	8	7	$M3 \times 0.5$	4	7	16	19
78	55	27.5	42	30	10	8	$M4 \times 0.7$	5	9	20	23.5
92	60.5	33.5	52	36	12	10	$M5 \times 0.8$	8	12	27	33
96.5	68	40	60	42	18	10	M6 × 1.0	6	14	27	29.5
	47.5 52.5 62.5 78 92	47.5 36 52.5 38.5 62.5 44.5 78 55 92 60.5	47.5 36 10.5 52.5 38.5 16.5 62.5 44.5 23.5 78 55 27.5 92 60.5 33.5	47.5 36 10.5 20 52.5 38.5 16.5 23 62.5 44.5 23.5 30.5 78 55 27.5 42 92 60.5 33.5 52	47.5 36 10.5 20 14 52.5 38.5 16.5 23 14 62.5 44.5 23.5 30.5 24 78 55 27.5 42 30 92 60.5 33.5 52 36	47.5 36 10.5 20 14 4 52.5 38.5 16.5 23 14 6.4 62.5 44.5 23.5 30.5 24 8 78 55 27.5 42 30 10 92 60.5 33.5 52 36 12	47.5 36 10.5 20 14 4 4 52.5 38.5 16.5 23 14 6.4 4 62.5 44.5 23.5 30.5 24 8 7 78 55 27.5 42 30 10 8 92 60.5 33.5 52 36 12 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

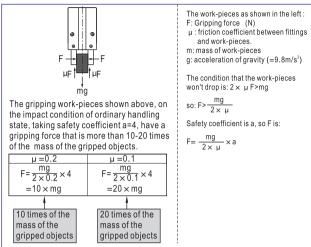
Bore size\Item	K	KA	KB	KC	L	LA	LB	LC	M	MA
6	$M3 \times 0.5$	Thru. thread	12	26	-	-	-	-	-	-
10	$M3 \times 0.5$	5	16	23	$M3 \times 0.5$	6	18	12	$M3 \times 0.5$	6
16	$M4 \times 0.7$	7	24	24.5	$M4 \times 0.7$	8	22	15	$M4 \times 0.7$	8
20	$M5 \times 0.8$	8	30	29	$M5 \times 0.8$	10	32	18	$M5 \times 0.8$	10
25	M6 × 1.0	10	36	30	M6 × 1.0	12	40	22	M6 × 1.0	10
32	M6 × 1.0	10	44	37.5	M6 × 1.0	12	46	26	M6 × 1.0	10

Bore size\Item	MB	MC	N	NA	Р	PA	РВ	UA(Opened)	UB(Closed)
6	-	-	7 +0.05	1.5	$M3 \times 0.5$	19	1.5	30°	10°
10	11.5	27	11 +0.05	1.5	$M3 \times 0.5$	19	10	30°	10°
16	16	30	17 ^{+0.05}	1.5	$M5 \times 0.8$	18.5	13	30°	10°
20	18.5	35	21 +0.05	1.5	$M5 \times 0.8$	22	15	30°	10°
25	22	36.5	26 +0.05	1.5	$M5 \times 0.8$	23.5	20	30°	10°
32	26	30	34 +0.05	2	$M5 \times 0.8$	31	24	30°	10°

How to select product

1. The selection of gripping force

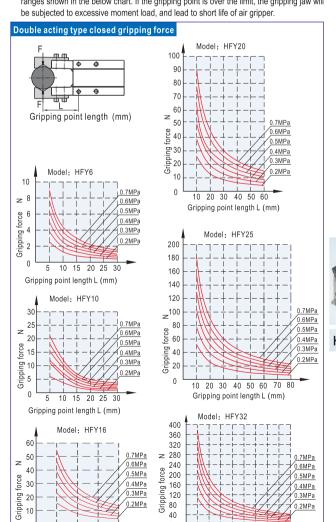
Please determine the gripping force according to the below methods.



Note) If the friction coefficient $\mu > \! 0.2,$ for safety, please also select clamping force according to the principle of 10~20 times of the mass of the clamped objects. As for large acceleration and shock, it requires for greater safety coefficient.

2. The selection of the gripping point

When the gripping force is determined, select the gripping point according to the limitation ranges shown in the below chart. If the gripping point is over the limit, the gripping jaw will



40 0

Gripping point length L (mm)







10 20 30 40 50 60 70 80 90 Gripping point length L (mm)

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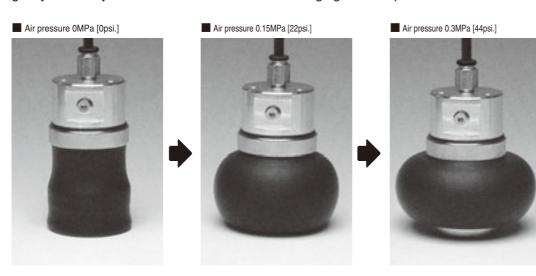
Koganei's high function pneumatic type rubber hand is soft in the way it works and firmly grips workpieces with a wide contact area.

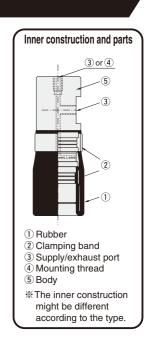
RUBBER HANDS

For many types of workpieces, these grip wide contact surfaces gently and are a new type of pneumatic holder. Use these for many fields of FA, not just for taking out the workpieces, loading, transferring and inserting the workpieces, but also for sealing and stopping. These are devices you cannot work without.

Pick type that inflates outward

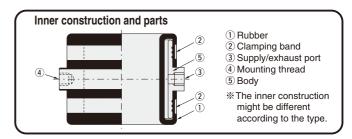
The hollow cylindrical rubber portion inflates like the doughnut shape and gently and firmly contacts a wide area without damaging the workpiece.

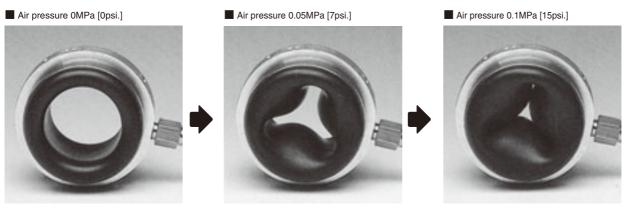




Grip type that inflates inward

The hollow doughnut shape rubber portion inflates internally and gently contacts a wide area and firmly holds without damaging the workpiece.





Pick Type

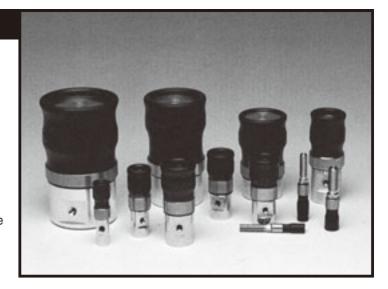
●RBP RCA

The rubber portion is reinforced with radial nylon cords. This type is suitable for holding or handling the workpiece whose inner diameter is small to medium-size or whose weight is medium.

●RBP TCA

The rubber portion is reinforced with bias nylon cords.

This type is suitable for holding or handling the workpiece whose inner diameter is large or whose weight is heavy.



Specifications

Order codes	Applicable inner diameter of the workpiece (mm [in.])	Recommended load mass Note (g [oz.])	Media	Maximum operating air pressure (MPa [psi.])	Proof pressure (MPa [psi.])	Operating temperature range (°C [°F])	Lubrication	Construction of the rubber portion	Body materials	Product mass (g [oz.])
RBP006RCA	φ 8.5∼10 [0.335∼0.39]	300 [10.6]							0	8 [0.28]
RBP007RCA	φ 10~12 [0.39~0.47]	300 [10.6]	_	0.40 [58] 0.60 [87]				Stainless steel	12 [0.42]	
RBP009RCA	φ 12~17 [0.47~0.67]	1300 [45.9]						17 [0.60]		
RBP010RCA	φ 16~21 [0.63~0.83]	2000 [70.5]				0~50	Prohibited (It is not possible to use under mineral oil atmosphere, etc.	Radial cords construction (Chloroprene rubber)	Free-cutting steel (Plated)	28 [0.99]
RBP014RCA	φ 21~27 [0.83~1.06]	2500 [88.2]								60 [2.12]
RBP017RCA	φ 24~32 [0.94~1.26]	3000 [105.8]	Air							85 [3.00]
RBP019RCA	φ 28~36 [1.10~1.42]	3500 [123.5]	All			[32~122]				105 [3.70]
RBP022RCA	φ 30~44 [1.18~1.73]	6000 [211.6]		0.50 [73]	0.75 [109]				, ,	160 [5.64]
RBP025RCA	φ 32~52 [1.26~2.05]	9000 [317.5]		0.50 [75]	0.73 [109]					245 [8.64]
RBP035TCA	φ 45~65 [1.77~2.56]	12000 [423.3]						Bias cords	Aluminum	180 [6.35]
RBP045TCA	φ 58~85 [2.28~3.35]	22000 [776.0]			.			construction (Chloroprene rubber)		370 [13.05]
RBP055TCA	φ 70~105 [2.76~4.13]	28000 [987.7]								610 [21.52]

Note: The recommended load mass shows the case where the inner diameter of the application workpiece is the maximum value. (The load mass increases as the inner diameter of the workpiece becomes smaller.)

Grip Type

●RBG GCA

The workpiece is securely held softly from the outside. This type is best for handling workpiece without an opening, or which has a small opening and is not easily gripped from the inside.



Specifications

Order codes	Applicable outer diameter of the workpiece (mm [in.])	Recommended load mass Note (g [oz.])	Media	Maximum operating air pressure (MPa [psi.])	Proof pressure (MPa [psi.])	Operating temperature range (°C [°F])	Lubrication	Construction of the rubber portion	Body material	Product mass (g [oz.])
RBG020GCA	φ5~15 [0.20~0.59]	1400 [49.4]		0.15 [22] 0.20 [29]			Prohibited			60 [2.12]
RBG030GCA	φ 10~25 [0.39~0.98]	3800 [134.0]	Air		0~50	It is not pos-	Whole rubber (Chloroprene		145 [5.11]	
RBG040GCA	φ 15~35 [0.59~1.38]	9000 [317.5]	All	0.13 [22]	0.20 [20] [32 ~ 122] under mineral (Office	rubber)	e Aluminum	210 [7.41]		
RBG050GCA	φ 20~45 [0.79~1.77]	9000 [317.5]						, ,		285 [10.05]

Note: The recommended load mass shows the case where the outer diameter of the application workpiece is the minimum value. (The load mass increases as the outer diameter of the workpiece becomes larger.)

Compact Parallel Grippers / Sensors

Attachments for Pneumatic Grippers/ Fingers for Pneumatic Grippers (Direct Mounting Type) Flat Shape

