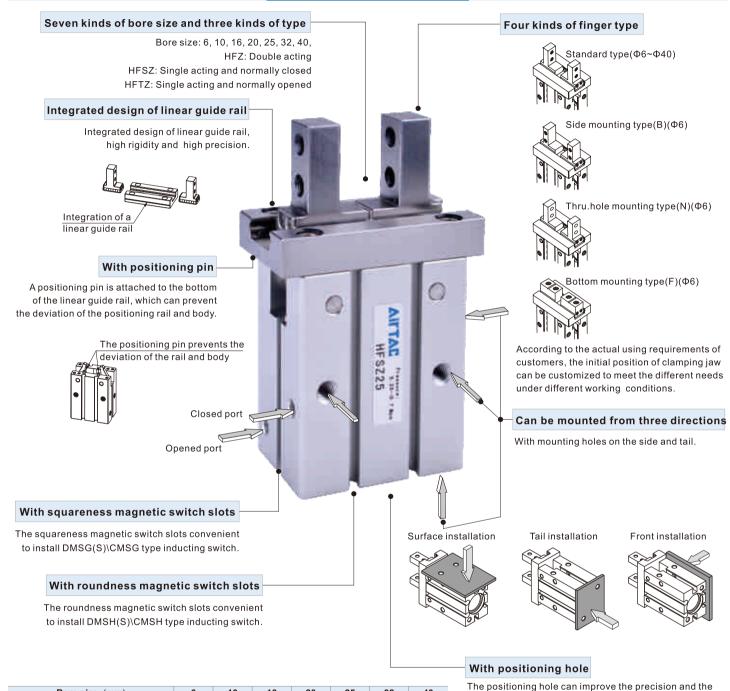


# Air gripper——HFZ Series

# Parallel style with guide track—ball bearing

# Compendium of HFZ Series



В	ore 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)											
	Double acting	Ф6, Ф10	0.2~0.7MPa(28~100psi)(2.0~7.0bar)											
Operating	Double acting	Others	0.15~0.7MPa(22~100psi)(1.5~7.0bar)											
pressure	Cinalo catina	Ф6, Ф10	0.35~0.7MPa(50~100psi)(3.5~7.0bar)											
	Single acting	Others	0.25~0.7MPa(36~100psi)(2.5~7.0bar)											
Te	mperature ℃		-20~70											
	Lubrication		Not required											
Re	peatability mn	ı	± 0.01 ± 0.02											
N	ax. frequency			60(c.p.m)										
Se	ensor switches		DMSH(S	DMSH(S)\CMSH DMSG(S)\CMSG, DMSH(S)\CMSH										
	Port size	M3>	×0.5	5 M5×0.8										

Note) Refer to P353 for detail of sensor switch.



consistency of repeated dismounting and positioning.

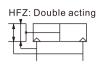
. The positioning hole

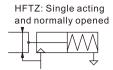


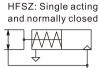
## **HFZ Series**



### **Symbol**





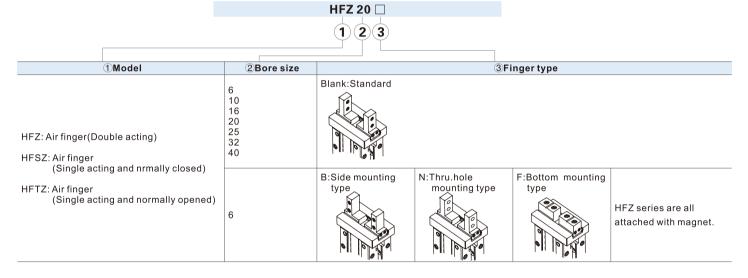


# Gripping force and stroke

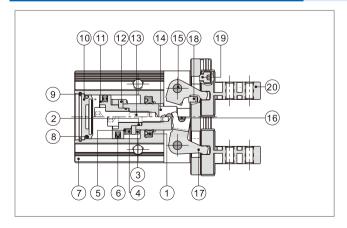
Acting type			Double acting(HFZ)					Single acting_NO (HFTZ)						Single acting_NC (HFSZ)								
Bore size			10	16	20	25	32	40	6	10	16	20	25	32	40	6	10	16	20	25	32	40
Gripping force per finger Effective value(N)	External	3.3	11	34	45	69	160	255	1.9	7	27	35	55	133	220	-	-	-	-	-	-	-
	Internal	6.1	17	45	68	102	195	320	-	-	-	-	-	-	-	3.7	13	38	59	87	163	270
Opening/Closing stroke(Both sides)(mm)			4	6	10	14	22	30	3	4	6	10	14	22	30	3	4	6	10	14	22	30
Weight (g)	F Type	24	-	-	-	-	-	-	25	-	-	-	-	-	-	25	-	-	-	-	-	-
	Others	25	56	124	236	428	729	1268	26	57	125	238	430	778	1365	26	57	125	238	430	778	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 285 for the definition of "L".

#### Ordering code



#### Inner structure and material of major parts



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



# Air gripper(parallel style——ball bearing)

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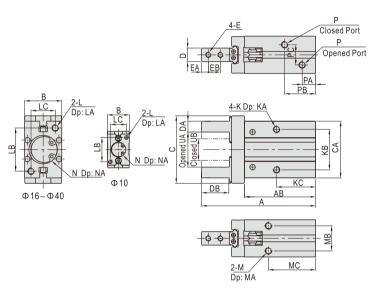


## **HFZ Series**

#### **Dimensions**

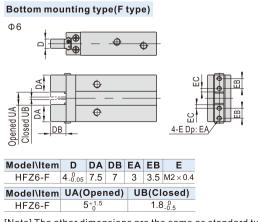
# Standard M3 × 0.5 Opened Port $M3 \times 0.5$ Closed Port Φ6 $2-M3 \times 0.5$ 2 2 Φ Dp: 1.5 25.5 $10.5\pm0.05$ 39

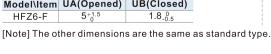


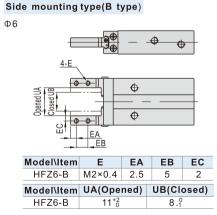


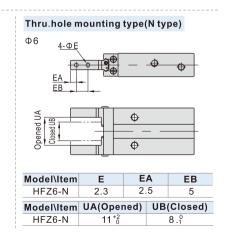
					_			_		_	_			_	EA	
Model\Item	Α		AB		В	С	CA		)	D		DB	Е	Е		
HFZ10	57		37.	5	16.5	30	23	5	0 -0.05	4 -6	0.05	12	M2.5	M2.5×0.45		
HFZ16	67.5		42.5		23.5	39	30.5	8 6	8 -0.05		5 -0.05 15		M3×0.5		4	
HFZ20	85		53	:	27.5	53	42	10	10 -0.05		0.05	20 M4>		0.7	5	
HFZ25	103		64	- ;	33.5	71	52	12	12 -0.05		0.05	25 M5		15×0.8		
HFZ32	113(122)		67(7	6)	40	106	60 15		0 -0.05	12 -0.05		29	M6×	1.0	7	
HFZ40	139(152)		83(9	6)	48	132	72	18	0 -0.05	14 -0.05		36 M8×		1.25	9	
Model\Item	EB k		(	KA K		KC		L	LA	LB	LC		М	MA	МВ	
HFZ10	5.7	M3×0.5		5	16	23	M	3×0.5	6	18	12	М3	M3×0.5		11.5	
HFZ16	7	M4×	M4×0.7		24	24.5	M	1×0.7	8	8 22		M4	M4×0.7		16	
HFZ20	9	M5×	M5×0.8		30	29	M	5×0.8	10	32	18	M5	×0.8	8	18.5	
HFZ25	12	M6×	M6×1.0		36	30	M6×1.0		12	40	22	M6×1.0		10	22	
HFZ32	14	M6×	1.0	10	46	46 40(49		) M6×1.0		46	26 M6>		6×1.0 10		26	
HFZ40	17	M8×	1.25	12	56	49(62	) M8	8×1.25	1.25 16		32	M8:	×1.25 12		32	
Model\Item	МС		N	N	4	Р	PA	РВ	РС	UA(	Ope	ened	) UB	(Clo	sed)	
HFZ10	27	Φ1	11 <sup>+0.0</sup>	1.	5 M	3×0.5	7 19 1		10	1	15.5 +2			11.5-0		
HFZ16	30 Ф1		7+0.0	1.	5 M	5×0.8	7.5	19	13	21 +2			15.0			
HFZ20	35 Ф2		21 <sup>+0.0</sup>		M	5×0.8	9.5	23	15	26.5 +2		1	16.5.0			
HFZ25	36.5 Ф2		26 <sup>+0.0</sup>	2	M	5×0.8	9	24	20	33.5 +2		1	19.5.0			
HFZ32			34 <sup>+0.0</sup>	2.	5 M	5×0.8	9.5	31(40)	24	24 48 +2.5		+2.5	26-		)	
HFZ40	58(71) Φ <sup>2</sup>		2+0.0	2.	5 M	5×0.8	10.5	5 38(50) 28		60 +2.5			30-1			

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









### How to select product \ Installation and application

Please refer to HFK series for details.

