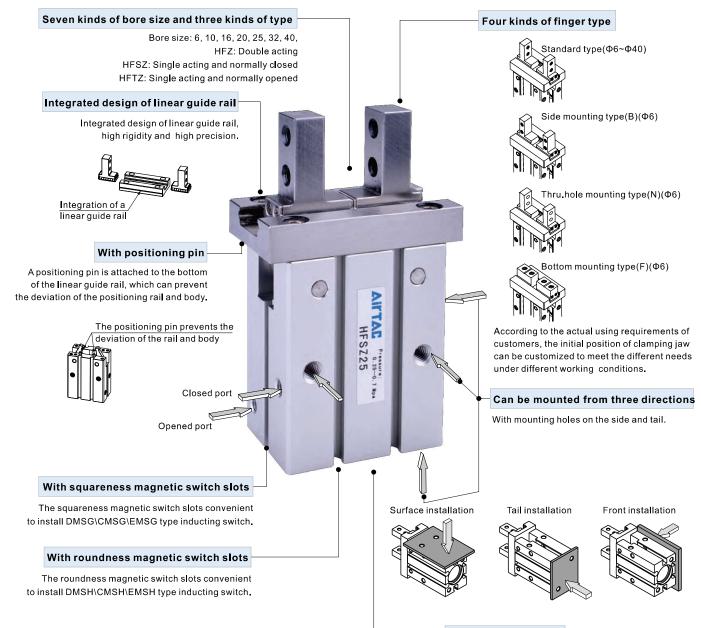


Air gripper——HFZ Series

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 40µm filter element)											
Operating pressure	Double acting	Ф6, Ф10	0.2~0.7MPa(28~100psi)(2.0~7.0bar)											
	Double acting	Others	0.15~0.7MPa(22~100psi)(1.5~7.0bar)											
	Single acting	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)											
Τe	emperature °C		-20~70											
	Lubrication		Not required											
Re	peatability mn	ı	±0.01 ±0.02											
M	lax. frequency			1		60(c.p.m)								
S	ensor switches		CMSH\DMSH CMSG\DMSG\EMSG EMSH CMSH\DMSH\EMSH											
	Port size		M3×0.5 M5×0.8											

Note) Refer to P362 for detail of sensor switch.

With positioning hole

The positioning hole can improve the precision and the consistency of repeated dismounting and positioning.

The positioning hole can improve the precision and the consistency of repeated dismounting and positioning hole



Air gripper(parallel style——ball bearing)

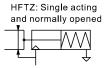


HFZ Series



Symbol





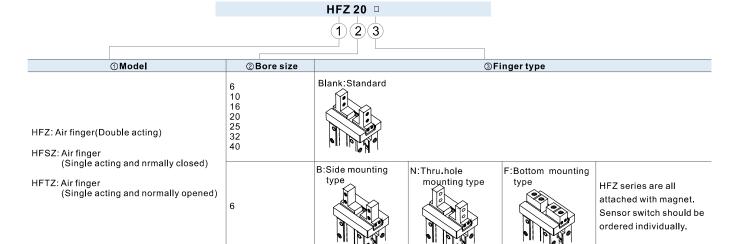


Gripping force and stroke

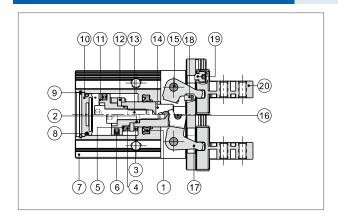
Acting type		D	ouble	actir	g(HF	Z)		Single acting_NO (HFTZ)					Single acting_NC (HFSZ)									
Bore size			10	16	20	25	32	40	6	10	16	20	25	32	40	6	10	16	20	25	32	40
Gripping force per finger	External	3.3	11	34	45	69	160	255	1.9	7	27	35	55	133	220	-	-	-	-	-	-	-
Effective value(N)	Internal	6.1	17	45	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
\Maiaht (a)	F Type	24	-	-	-	-	-	-	25	-	-	-	-	-	-	25	-	-	-	-	-	-
Weight (g)	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 280 for the definition of "L".

Ordering code



Inner structure and material of major parts

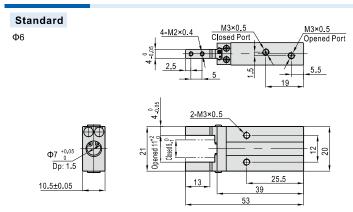


NO.	Item	Material
1	Rod packing	NBR
2	O-ring	NBR
3	Bumper	TPU
4	Magnet	Sintered metal(Neodymium-iron-boron)
5	Magnet washer	NBR
6	Piston seal	NBR
7	Body	Aluminum alloy
8	O-ring	NBR
9	C clip	Spring steel
10	Back cover	Aluminum alloy
11	Piston	Aluminum alloy/Stainless steel
12	Magnet fixed plate	Stainless steel
13	Screw	Alloy 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	Alloy stee l
20	Assembly of clamping jaw and guide rail	Alloy steel

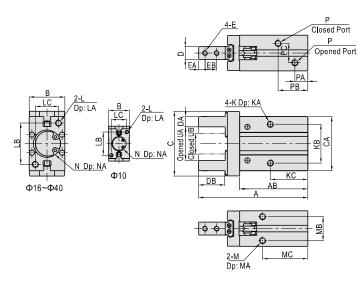


HFZ Series

Dimensions

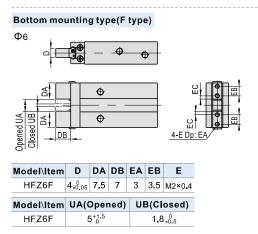


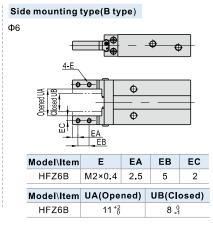
Ф10~Ф40

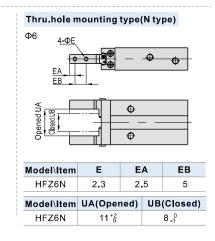


Model\Item	Α		AB		В	С	CA)	D	A	DB	E	:	EA	
HFZ10	57		37.5		16.5	30	23	5 .	5 -0.05		4 -0.05		M2.5	<0.45	3	
HFZ16	67.5		42.5		23.5	39	30.5	8.	8 .0.05		5 .0.05		M3>	0.5	4	
HFZ20	85		53		27.5	53	42	10 .	10 _0.05		0.05	20 M4>		0.7	5	
HFZ25	103		64		33.5	71	52	12 .0.05		10 _0.05		25 M5		8.0	6	
HFZ32	113(122)		67(76)		40	106	60	15 .	15 -0.05		12 _0.05		M6>	1,0	7	
HFZ40	139(152)		83(96)		48	132	72	18 .	18 -0.05		14 -0.05		M8×	1.25	9	
Model\Item	ЕВ	r	KA		ΚВ	кс		L	L LA		LC		М	MΑ	МВ	
HFZ10	5.7	M3>	3×0.5 5		16	23	M3	8×0.5 6		18	12	МЗ	M3×0.5		11.5	
HFZ16	7	M4>	M4×0.7 7		24	24.5	M	/14×0.7 8		22	15	M4×0.7		4.5	16	
HFZ20	9	M5>	0.8	8	30	30 29		5×0.8 10		32	18	M5	8.0×	8	18,5	
HFZ25	12	M6>	1.0	10	36 30		M	M6×1.0 12		40	22 M6		6×1.0 10		22	
HFZ32	14	M6>	<1.0 10		46	40(49) M6×1.0		12	46	26	M6	×1.0 10		26	
HFZ40	17 M8×		//8×1.25 1		2 56 49(62) M8×1.25		16	56	56 32 M8×		×1.25 12		32	
Model\Item	МС		N	N	A	Р	PA	ΡВ	РС	UA	Оре	ened) UB	(Clo	sed)	
HFZ10	27	Φ′	11+0.0	¹⁵ 1.	5 M	3×0.5	7	19	10	15.5 +2		1	11.5.0			
HFZ16	30	Ф1	7+0.0	1.	5 M	5×0.8	7.5	19 13		21 +2		15_1)		
HFZ20	35		21+0.05		M	5×0.8	9.5	23	23 15		26.5 +2			16.5.0		
HFZ25	36.5	Ф2	26+0.0	¹⁵ 2	M	5×0.8	9	24	24 20		33.5 ⁺² ₀		19.5.)	
HFZ32	48(57	') ФЗ	34 ^{+0.0}	2.	5 M	5×0.8	9.5	31(40)	31(40) 24		48 +2.5			26-1		
HFZ40	58(71) Ф4	12+0.0	2.	2.5 M5×0.8		10.5	38(50)	38(50) 28		60 +2.5			30-0		

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







 $[Note] \ The \ other \ dimensions \ are \ the \ same \ as \ standard \ type.$

How to select product \ Installation and application

Please refer to HFK series for details.

