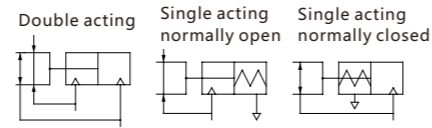




Symbol



Specification

Bore(mm)	6	10	16	20	25	32	40
Fluid	Compressed air						
Pressure range (MPa)	Double acting	0.15~0.7	0.2~0.7	0.1~0.7			
	Single acting	0.3~0.7	0.35~0.7	0.25~0.7			
Ambient and fluid temp.	-10~60°C						
Repeatability(mm)	±0.01					±0.02	
Max. operating frequency(c.p.m)	180(CHFL2 series 120)					60	
Fluid	Non-lube						
Action	Double acting, Single acting						
Port size	M3x0.5			M5x0.8			

Ordering code

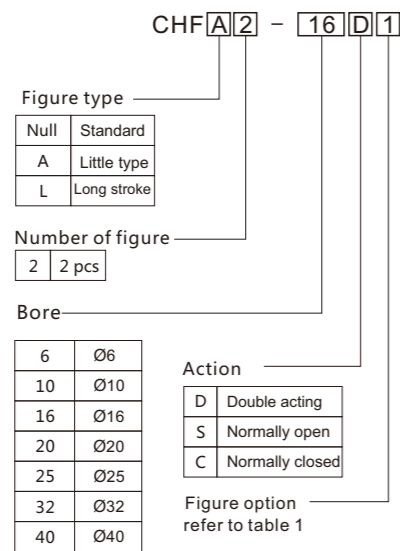


Table 1

Null: standard	1: side tapped mount	2: through-holes in closing/opening direction	3: flat type

Gripping force

Little type

Action	Series	Gripping force per finger Effective value (N)		Opening/Closing (Both sides)mm
		External	Internal	
Double acting	CHFA2-6D	3.3	6.1	4
Single acting	Normally open CHFA2-6S	1.9	-	4
	Normally closed CHFA2-6C	-	3.7	4

Standard type

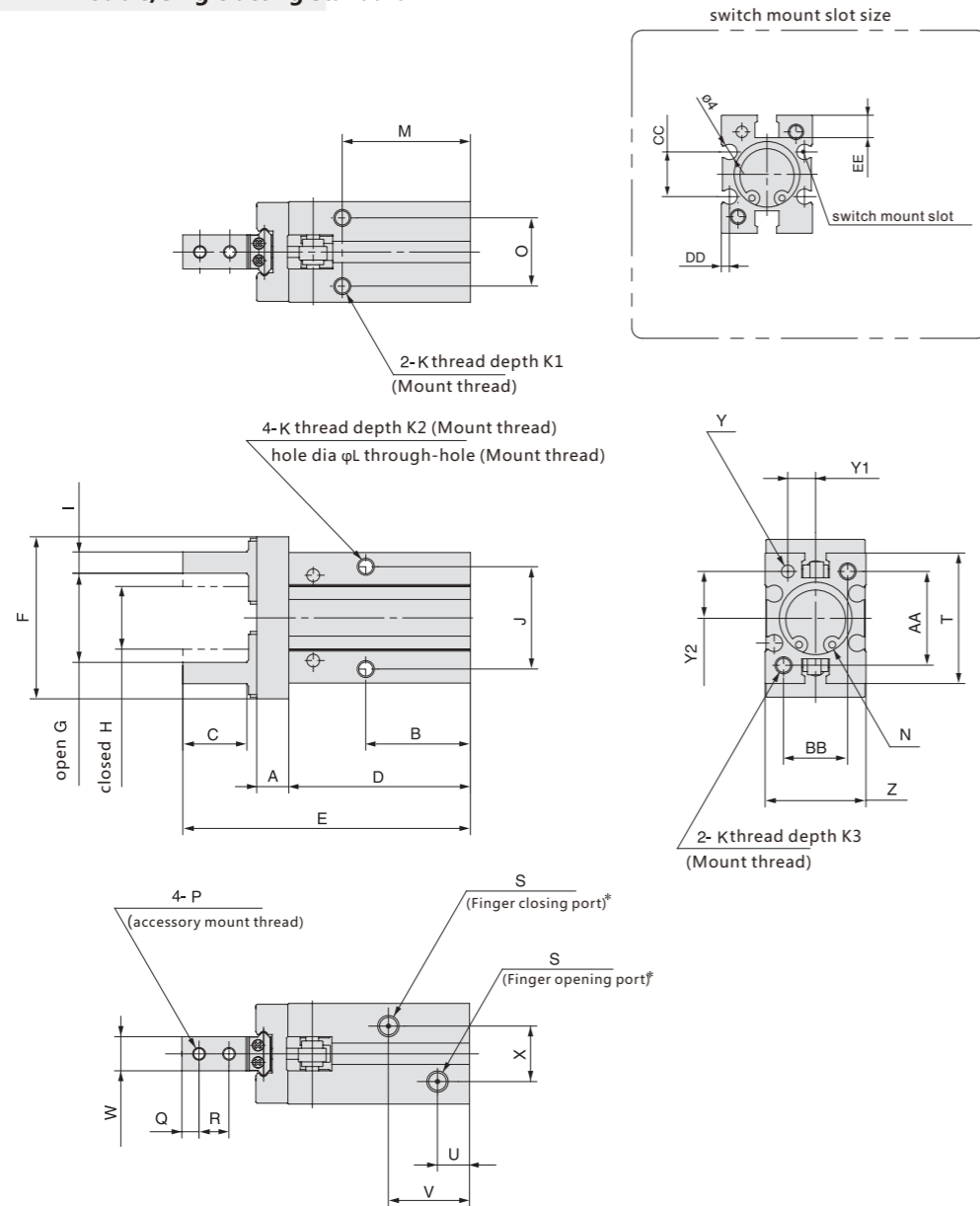
Action	Series	Gripping force per finger Effective value (N)		Opening/Closing (Both sides)mm	
		External	Internal		
Double acting	CHF2-6D	3.3	6.1	4	
	-10D	11	17	4	
	-16D	34	45	6	
	-20D	42	66	10	
	-25D	65	104	14	
	-32D	158	193	22	
	-40D	254	318	30	
Single acting	Normally open	CHF2-6S	1.9	-	4
		-10S	7.1	-	4
		-16S	27	-	6
		-20S	33	-	10
		-25S	45	-	14
		-32S	131	-	22
		-40S	217	-	30
Single acting	Normally closed	CHF2-6C	-	3.7	4
		-10C	-	13	4
		-16C	-	38	6
		-20C	-	57	10
		-25C	-	83	14
		-32C	-	161	22
		-40C	-	267	30

Long stroke type

Action	Series	Gripping force per finger Effective value (N)		Opening/Closing (Both sides)mm	
		External	Internal		
Double acting	CHFL2-10D	11	17	8	
	-16D	34	45	12	
	-20D	42	66	18	
	-25D	65	104	22	
Single acting	Normally open	CHFL2-10S	7.1	-	8
		-16S	27	-	12
		-20S	33	-	18
		-25S	50	-	22
		Single acting	Normally closed	CHFL2-10C	-
-16C	-			38	12
-20C	-			57	18
-25C	-			85	22

■ Dimensions (mm)

CHFL 2 - □ Double/Single acting Standard



- * For single action, the port on one side becomes a breathing hole.
- * the value in () suit for single action

Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q	R	S	T	U
10	6	25(35)	12	37.8(47.8)	57(67)	35	19.2 ^{+2.2} ₀	11.2 ⁰ _{-0.4}	4 ⁰ _{-0.1}	16	M3×0.5	6	5.5	6	2.6	29(39)	$\phi 11H9^{+0.043}$ ₀ depth2	11.4	M2.5×0.45	3	5.7	M3×0.5	23	8
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	26.9 ^{+2.2} ₀	14.9 ⁰ _{-0.4}	5 ⁰ _{-0.1}	24	M4×0.7	4.5	8	8	3.4	36(41)	$\phi 17H9^{+0.043}$ ₀ depth2	16	M3×0.5	4	7	M5×0.8	30.6	8
20	9.5	36(42)	20	58(64)	90(96)	62	34.3 ^{+2.4} ₀	16.3 ⁰ _{-0.4}	8 ⁰ _{-0.1}	30	M5×0.8	8	10	10	4.3	43(49)	$\phi 21H9^{+0.052}$ ₀ depth3	18.6	M4×0.7	5	9	M5×0.8	42	10
25	11	40(50)	25	66.9(76.9)	106(116)	75	41.3 ^{+2.8} ₀	19.3 ⁰ _{-0.4}	10 ⁰ _{-0.1}	36	M6×1	10	12	12	5.1	48(58)	$\phi 26H9^{+0.052}$ ₀ depth3.5	22	M5×0.8	6	12	M5×0.8	52	10

Bore	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	21(31)	5 ⁰ _{-0.05}	11	$\phi 2H9^{+0.025}$ ₀ depth3	16.4±0.05	5.2±0.02	7.6±0.02	18	12			5.4
16	25(30)	8 ⁰ _{-0.05}	13	$\phi 3H9^{+0.025}$ ₀ depth3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	30(36)	10 ⁰ _{-0.05}	15	$\phi 4H9^{+0.03}$ ₀ depth4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	33(43)	12 ⁰ _{-0.05}	20	$\phi 4H9^{+0.03}$ ₀ depth4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5