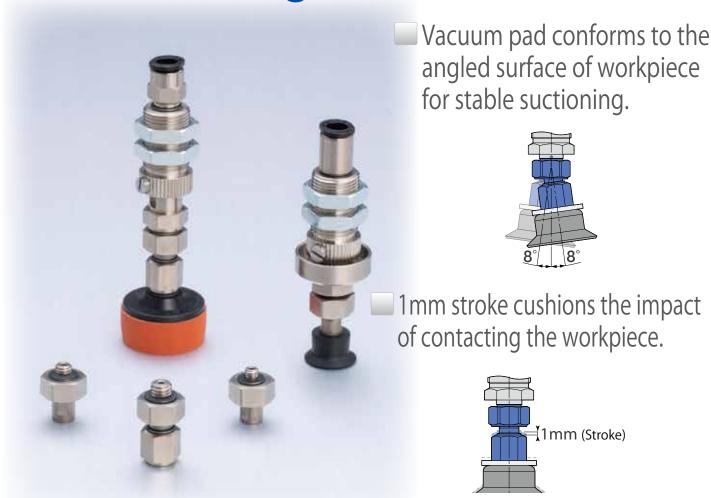
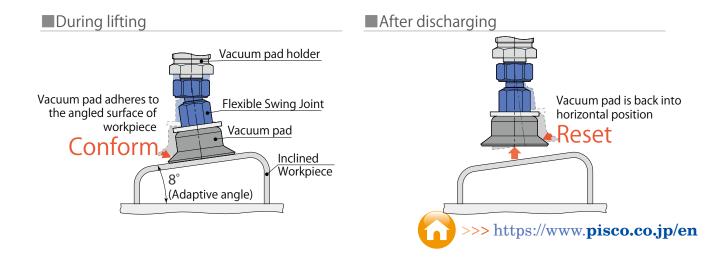
Suitable for lifting workpieces with sloping and curved surfaces

Flexible Swing Joint for vacuum pads

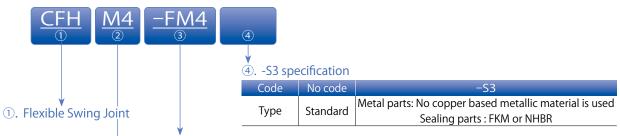


Internal spring resets Vacuum pad to horizontal position. Orientation of the Vacuum pad stays the same with the workpiece surface during lifting.



Nev

■ Model Designation (Example)



③. Female thread port size

3.1 emale thread port size										
	Code	−FM4	-FM5	-FM6						
	Size	M4×0.7	M5×0.8	M6×1						
	Connection type	Screw type (connection with screw)								
Cor	nnection configuration code	-M4	_	-M6						
	ø4	L	_	_						
	ø6	L, LB	_	_						
	ø8	L, LB	_	_						
	ø10	R, L, LB, K, B, W, F, FH	_	S						
	ø15	R, A, L, LB, B, F, FH	_	S						
	ø20	_	_	R, A, L, LB, K, B, W, F, FH, S						
	ø25	_	_	R, A, B, F, FH, S						
	ø30	_	_	R, A, L, K, B, W, F, FH, S						
Pad	ø35	_	_	S						
size	ø40	_	_	R, A, L, K, B, W						
že (i	ø50	_	_	R, A, K, B, W, S						
(mm),	2×4	_	_	E						
	3.5×7	_	_	E						
type	4×10	_	_	E						
e cc	4×20	_	_	E						
code	4×30	_	_	Е						
	5×10	_	_	Е						
	5×20	_	_	Е						
	5×30	_	_	Е						
	6×10	_	_	E						
	6×20		_	E						
	6×30		_	E						
	8×20	_	_	E						
	8×30	_	_	Е						

^{*} The details of Vacuum pad type codes are as follows. R: Standard General, A: Standard Deep, L: Soft, LB: Soft bellows, K: Skidproof, B: Bellows, W: Multi-bellows, F: Flat,

FH: Flat large suction flow, S: Sponge, E: Oval

2. Male thread port size

•			
Code	M4	M5	M6
Size	M4×0.7	M5×0.8	M6×1
Connection type	Screw type	(Connectio	n with screw)
Connection configuration code	-M4	_	-M6

△ Safety instructions

- △ Caution 1. Depending on usage, the inside of Flexible Swing Joint may wear out due to its structure. When using the product in clean-room, make sure in advance that dust emission from the abrasion does not affect the product and production line.
 - 2. There is no anti-rotation structure between this product and the vacuum pad. Please note that this product is not suitable for rotary transport.
 - 3. Special stainless steel used in this product is not intended for rust prevention. Rust may occur depending on the operating environment.
 - 4. When attaching the product on the actual equipment or pad holder, be sure to tighten the thread according to the torque in the following table with appropriate tools and that there is no looseness.

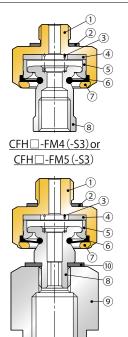
hread size	lightening torque (N·m)				
M4×0.7	0.7~0.8				
M5×0.8	1~1.5				
M6×1	1.5~2.0				



Specifications

Fluid medium	Air
Operating vacuum pressure (kPa)	0 to -100
Operating temp. range (°C)	0 to 60 (No freezing)

Structure

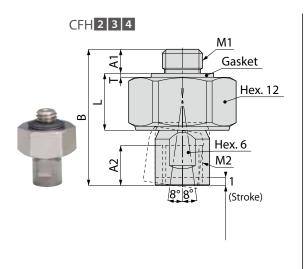


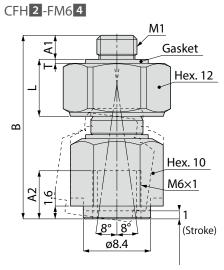
<u>CFH□-FM6 (-S3</u>)

No.	Parts	Material/ Treatment						
INO.		Standard specification	-S3 specification					
1	Metallic body	Brass (Electroless nickel-plated)	Special stainless steel (Austenitic or Ferritic) *1					
		SPCC + NBR (Pad connection config. code: -M4)						
2	Gasket	SUS304 + NBR (Pad connection config. code: -M5)	SUS316 + FKM					
		SUS304 + NBR (Pad connection config. code: -M6)						
3	Spring	SUS304						
4	Spacer	SUS304 + Nitriding						
(5)	Weight block	Special stainless steel *1 + Nitriding						
	(Retainer)	Special stainless steel "1 + Nithung						
6	Diaphragm	Fk	KM					
7	Plate	Brass (Electroless nickel-plated)	Special stainless steel (Austenitic or Ferritic) *1					
8	Pad Guide *2	Special stainless steel *1 + Nitriding						
9	Screw adapter	Brass (Electroless nickel-plated)	Special stainless steel (Austenitic or Ferritic) *1					
10	Gasket	SPCC + NBR	SUS316 + FKM					

^{*1} Anti-corrosivity is equivalent to SUS303.

Exterior dimensional drawings





Unit: mm

Model code	M1	M2	A1	A2	D			Weight	Price	e (¥)	Connection
Model Code	IVII	IVIZ	AI	HZ	D			(g)	4: No code	4:-S3	config. code
CFHM4-FM44	M4×0.7	M4×0.7	2.9[3]	4	16	7.2[7.1]] 0.6[0.5]	6.1	2,100	3,100	-M4
CFHM4-FM54	IVI4XU.7	M5×0.8	2.8[3]	5	17				2,100	3,100	_
CFHM5-FM44		M4×0.7		4	16	7.1	0.5	6.1	2,100	3,100	-M4
CFHM5-FM54	M5×0.8	M5×0.8	3	5	17				2,100	3,100	_
CFHM5-FM64		M6×1		6	22.9			12	2,600	3,600	-M6
CFHM6-FM54	M6×1	M5×0.8	4	5	18	7.1	7.1	6.4	2,100	3,100	_
CFHM6-FM6 4	IVIOXI	M6×1	4	6	23.9	7.1	0.5	12	2,600	3,600	-M6

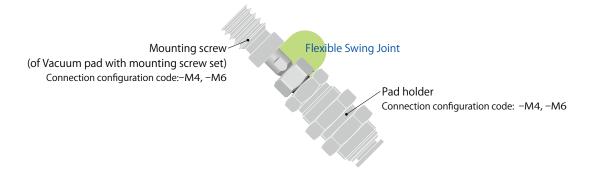
^{*} The dimensions in the brackets [] are for -S3 specification.

^{*2} A pad guide for M4 or M5 connection type is female threaded for a vacuum pad with mounting screw connection.

Applicable vacuum pad types and sizes

				1		T.				
Pad type	Pad type Standard General Deep		Coff	Soft Bellows	Chidoroof	Dollous	Multi-bellows			
			Soft	3011 Dellows	Skidproof	Bellows	Multi-bellows			
Flexible Swing	0	0			0					
Joint model code		Pad dia./size (mm)								
							T			
CFHM4-FM4	ø10, ø15	ø15	ø4~ø15	ø6~ø15	ø10	ø10, ø15	ø10			
CFHM6-FM6	ø20-	∽ø50	ø20~ø40	ø20	ø20~ø50	ø20~ø50	ø20~ø50			
Pad type	Flat F		Flat large suction flow		Sponge		Oval			
					0		•			
Flexible Swing										
Joint model code	Pad dia./size (mm)									
CFHM4-FM4		ø10, ø	15	_			_			
CFHM6-FM6	ø20~ø30				ø10~ø50 2×4~8×30					

^{*} The vacuum pads with mounting screw with M4 or M6 connection configuration code can be installed.



Applicable vacuum pad holder types

Pad	Miniature		VPMA	VPMB	_	VPMC	VPMD	_	_
ρ D	Charadand		VPA	VPB	_	VPC	VPD	_	VPF
olde	Standard		_	VPHE	VPHEW	VPHC	VPHD	VPHDW	_
holder type	No cover (Outer spr		_	_	_	VPOC	VPOD	_	_
\range \[\]	Low dust er	nission	_	_	_	VPLFC	_	_	_
Port position Connection type: Screw				Fixed type			Spring type		
		osition	Тор	Side	Both sides	Тор	Side	Both sides	Direct mount
		: Screw							
Conn	nection	-M4	0	0	0	0	0	0	0
confi	g. code	-M6	0	0	0	0	0	0	0

^{*} Pad holders with connection configuration codes in the above list can be installed.

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