

FK

Simplified floating fitting

Related products

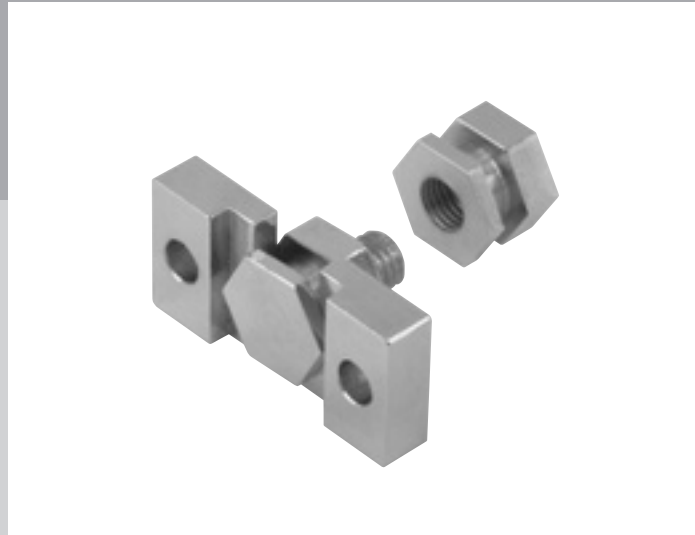
Overview

This simplified floating fitting eliminates misalignment and parallelism defects during cylinder mounting, and realizes smooth rod actuation.

Features

Easy centering/parallelism alignment

This can be set quickly

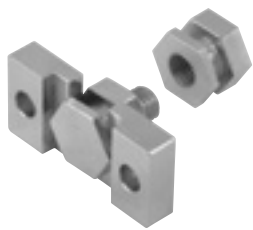


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Series variation	1873
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●: Standard, ■: Not available

Variation	Model No.	Thread size																Page
		M3x 0.5	M4x 0.7	M5x 0.8	M6x 1.0	M8x 1.0	M8x 1.25	M10x 1.25	M10x 1.5	M12x 1.5	M14x 1.5	M16x 1.5	M16x 2.0	M18x 1.5	M20x 2.5	M22x 1.5	M26x 1.5	
Male thread	FK-*-N	●	●	●	●	■	●	■	●	■	■	■	●	■	●	■	■	1874
Female thread	FK	●	●	●	●	●	●	●	■	●	●	●	■	●	■	●	●	



Simplified floating fitting

FK Series

● Cylinder diameter: $\varnothing 6$ to $\varnothing 100$



Specifications

Model No.		Allowable load *1 (N)	Allowable eccentricity (mm)	Backlash amount in thrust direction (mm)
Male thread	Female thread			
FK-M3-N	FK-M3	63	±0.3	0.1 to 0.3
FK-M4-N	FK-M4	110		
FK-M5-N	FK-M5	179		
FK-M6-N	FK-M6	253		
FK-M8-N	FK-M8x1.0	462		
——	FK-M8x1.25	462		
FK-M10-N	FK-M10	734		
——	FK-M12	1069		
——	FK-M14	1466	±0.7	
FK-M16-N	FK-M16	2003		
——	FK-M18	2448		
FK-M20-N	——	3130		
——	FK-M22	3896		
——	FK-M26	6219		

*1: Allowable load indicates static load.

How to order

● Simplified floating fitting

FK - M3-N

Model No.

● Thread size

Code	Description
A Thread size	
M3-N	M3x0.5
M4-N	M4x0.7
M5-N	M5x0.8
M6-N	M6x1.0
M8-N	M8x1.25
M10-N	M10x1.5
M16-N	M16x2.0
M20-N	M20x2.5
M3	M3x0.5
M4	M4x0.7
M5	M5x0.8
M6	M6x1.0
M8x1.0	M8x1.0
M8x1.25	M8x1.25
M10	M10x1.25
M12	M12x1.5
M14	M14x1.5
M16	M16x1.5
M18	M18x1.5
M22	M22x1.5
M26	M26x1.5

Male thread

Female thread

Specifications for rechargeable battery

(Catalog No. CC-1226A)

FK - [Thread size] - P40

● Design compatible with rechargeable battery manufacturing process

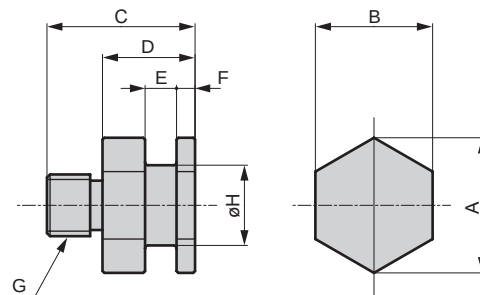
* Contact CKD for details.

Dimensions

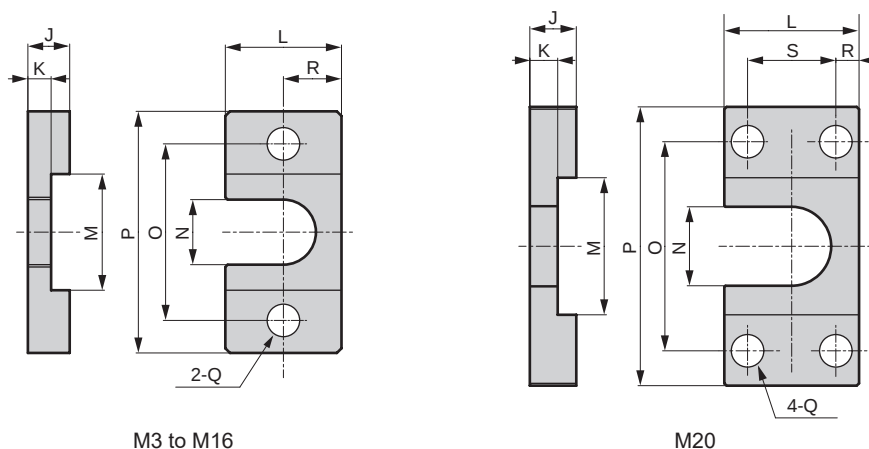


● Bracket (1)

Material : Steel
Surface treatment : Nickeling



● Bracket (2)



M3 to M16

M20

Bracket (1)

Model No.	Cylinder	A	B	C	D	E	F	G	H	Weight g
FK-M3-N	SSD/SSD2-12	11.6	10	15	10	3.1 ^{+0.1} ₀	2	M3x0.5	6	5.3
FK-M4-N	SSD/SSD2-16	11.6	10	15.5	10	3.1 ^{+0.1} ₀	2	M4x0.7	6	5.5
FK-M5-N	SSD/SSD2-20, FCD-25	13.9	12	16.5	10	3.1 ^{+0.1} ₀	2	M5x0.8	8	8.3
FK-M6-N	SSD/SSD2-25, FCD-32	13.9	12	19	10	3.1 ^{+0.1} ₀	2	M6x1.0	8	8.9
FK-M8-N	SSD/SSD2-32, 40, FCD-40, 50	21.9	19	23	15	5.1 ^{+0.1} ₀	3	M8x1.25	13	30.8
FK-M10-N	SSD/SSD2-50, 63, FCD-63	21.9	19	24	15	5.1 ^{+0.1} ₀	3	M10x1.5	13	32.7
FK-M16-N	SSD/SSD2-80	37	32	31	20	7.1 ^{+0.1} ₀	4	M16x2.0	23	122.5
FK-M20-N	SSD/SSD2-100	53.1	46	43	28	12.1 ^{+0.1} ₀	7	M20x2.5	32	333

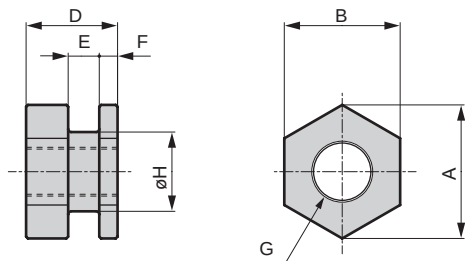
Bracket (2)

Model No.	Cylinder	J	K	L	M	N	O	P	Q	R	S	Weight g
FK-M3-N	SSD/SSD2-12	6	3 ⁰ _{-0.1}	16	14	7	24	34	4.5	8	—	16
FK-M4-N	SSD/SSD2-16	6	3 ⁰ _{-0.1}	16	14	7	24	34	4.5	8	—	16
FK-M5-N	SSD/SSD2-20, FCD-25	6	3 ⁰ _{-0.1}	19	16	9	26	36	4.5	9.5	—	19.6
FK-M6-N	SSD/SSD2-25, FCD-32	6	3 ⁰ _{-0.1}	19	16	9	26	36	4.5	9.5	—	19.6
FK-M8-N	SSD/SSD2-32, 40, FCD-40, 50	9	5 ⁰ _{-0.1}	25	25	14	38	52	7	12.5	—	54.5
FK-M10-N	SSD/SSD2-50, 63, FCD-63	9	5 ⁰ _{-0.1}	25	25	14	38	52	7	12.5	—	54.5
FK-M16-N	SSD/SSD2-80	12	7 ⁰ _{-0.1}	44	42	25	62	85	11	22	—	216
FK-M20-N	SSD/SSD2-100	22	12 ⁰ _{-0.1}	65	59	34	90	120	14	13.5	38	788

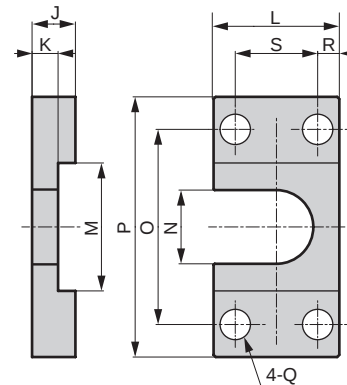
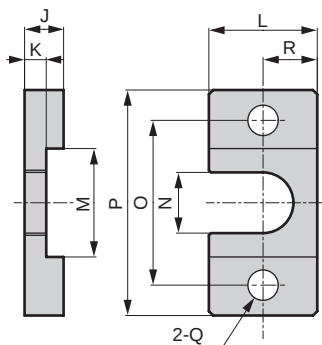


Material : Steel
Surface treatment : Nickeling

● Bracket (1)



● Bracket (2)



M3 to M18

M22 to M26

Bracket (1)

Model No.	Cylinder	A	B	D	E	F	G	H	Weight g
FK-M3	SCPD3-6, CAT-6, SMG-6	11.6	10	10	3.1 ^{+0.1} ₀	2	M3x0.5	6	4.6
FK-M4	SCPD3-10, CAT-10, SMG-10	11.6	10	10	3.1 ^{+0.1} ₀	2	M4x0.7	6	4.1
FK-M5	SCPD3-16, CAT-15, SMG-16 SSD-12-N	13.9	12	10	3.1 ^{+0.1} ₀	2	M5x0.8	8	6.2
FK-M6	SMG-20, SSD/SSD2-16-N	13.9	12	10	3.1 ^{+0.1} ₀	2	M6x1.0	8	5.7
FK-M8x1.0	CMK2-20, CMA2-20, JSK2-20, JSM2-20	21.9	19	15	5.1 ^{+0.1} ₀	3	M8x1.0	13	23
FK-M8x1.25	SMG-25, SSD/SSD2-20-N, SCM-20	21.9	19	15	5.1 ^{+0.1} ₀	3	M8x1.25	13	23.4
FK-M10	CMK2-25/32, CMA2-30, SMG-32, SSD/SSD2-25-N, SCG-32, SCM-25/32, FCD-25-N, JSK2-25/32, JSM2-30	21.9	19	15	5.1 ^{+0.1} ₀	3	M10x1.25	13	20.2
FK-M12	CMK2-40, CMA2-40, JSK2-40, JSM2-40	27.7	24	15	5.1 ^{+0.1} ₀	3	M12x1.5	18	35.7
FK-M14	SCA2-40, SSD/SSD2-32/40-N/SCG-40, SCM-40, FCD-32/40-N, JSC3-40	27.7	24	15	5.1 ^{+0.1} ₀	3	M14x1.5	18	31.2
FK-M16	CAV2-50	37	32	20	7.1 ^{+0.1} ₀	4	M16x1.5	23	81.3
FK-M18	SCA2-50/63, SSD/SSD2-50/63-N, SCM-50/63, SCG-50/63, FCD-50/63-N, JSC3-50/63	37	32	20	7.1 ^{+0.1} ₀	4	M18x1.5	23	73.1
FK-M22	SCA2-80, SSD/SSD2-80-N, JSC3-80, SCG-80, SCM-80, CAV2-75/100	53.1	46	28	12.1 ^{+0.1} ₀	7	M22x1.5	32	226
FK-M26	SCA2-100, SSD/SSD2-100-N, SCM-100, JSC3-100, SCG-100	53.1	46	28	12.1 ^{+0.1} ₀	7	M26x1.5	32	193

Bracket (2)

Model No.	Cylinder	J	K	L	M	N	O	P	Q	R	S	Weight g
FK-M3	SCPD3-6, CAT-6, SMG-6	6	3 ⁰ _{-0.1}	16	14	7	24	34	4.5	8	—	16
FK-M4	SCPD3-10, CAT-10, SMG-10	6	3 ⁰ _{-0.1}	16	14	7	24	34	4.5	8	—	16
FK-M5	SCPD3-16, CAT-15, SMG-16 SSD/SSD2-12-N	6	3 ⁰ _{-0.1}	19	16	9	26	36	4.5	9.5	—	19.6
FK-M6	SMG-20, SSD/SSD2-16-N	6	3 ⁰ _{-0.1}	19	16	9	26	36	4.5	9.5	—	19.6
FK-M8x1.0	CMK2-20, CMA2-20, JSK2-20, JSM2-20	9	5 ⁰ _{-0.1}	25	25	14	38	52	7	12.5	—	54.5
FK-M8x1.25	SMG-25, SSD/SSD2-20-N, SCM-20	9	5 ⁰ _{-0.1}	25	25	14	38	52	7	12.5	—	54.5
FK-M10	CMK2-25/32, CMA2-30, SMG-32, SSD/SSD2-25-N, SCG-32, SCM-25/32, FCD-25-N, JSK2-25/32, JSM2-30	9	5 ⁰ _{-0.1}	25	25	14	38	52	7	12.5	—	54.5
FK-M12	CMK2-40, CMA2-40	9	5 ⁰ _{-0.1}	32	32	19	50	70	9	16	—	94.5
FK-M14	SCA2-40, SSD/SSD2-32/40-N/SCG-40, SCM-40, FCD-32/40-N, JSC3-40	9	5 ⁰ _{-0.1}	32	32	19	50	70	9	16	—	94.5
FK-M16	CAV2-50	12	7 ⁰ _{-0.1}	44	42	25	62	85	11	22	—	216
FK-M18	SCA2-50/63, SSD/SSD2-50/63-N, SCM-50/63, SCG-50/63, FCD-50/63-N, JSC3-50/63	12	7 ⁰ _{-0.1}	44	42	25	62	85	11	22	—	216
FK-M22	SCA2-80, SSD/SSD2-80-N, JSC3-80, SCG-80, SCM-80, CAV2-75/100	22	12 ⁰ _{-0.1}	65	59	34	90	120	14	13.5	38	788
FK-M26	SCA2-100, SSD/SSD2-100-N, SCM-100, JSC3-100, SCG-100	22	12 ⁰ _{-0.1}	65	59	34	90	120	14	13.5	38	788



Pneumatic components

Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

Product-specific cautions: Simplified floating fitting FK Series

Mounting, installation and adjustment

WARNING

- When connecting the object being driven and the cylinder rod with a simplified floating fitting, securely fix the components by fastening the screws with a tightening torque that is appropriate for the thread size. When there are further worries of loosening during use, take measures to prevent loosening by securing the component with a pin or by applying an adhesive.
- The screw section (Bracket (1)) can be rotated but is not a rotary fitting. Do not use this for rotary purposes.

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

Ending