Series **SF**

Floating Joint

Bore size(Applicable Cylinder) : ϕ10, ϕ16, ϕ20, ϕ25, ϕ32, ϕ40, ϕ50, ϕ63, ϕ80, ϕ100, ϕ125, ϕ140, ϕ160

THE FLOATING JOINT ASSEMBLY PROTECTS CYLINDER INSTALLATIONS FROM ANGULAR AND LATERAL MISALIGNMENT

- ACCURATE CYLINDER ALIGNMENT NOT REQUIRED
- INSTALLATION TIME REDUCED
- ACCURATE MACHINING
- COMPACT DESIGN ALLOWS HIGH LOADING

How to Order

SF (1) — F (2) — 20 (3)

1 Floating Joint

2 Mounting

Blank : Standard
* **F** : Flange Type
* **ϕ10, ϕ16** : Standard Type only.

3 Applicable Tube/Thread Size

Type	Applicable Cylinder Bore Size	Connection
10	10	M4×0.7
16	16	M5×0.8
20	20	M8×1.25
30	25.32	M10×1.25
40	40	M14×1.5
63	50 · 63	M18×1.5
80	80	M22×1.5
100	100	M26×1.5
140	125 · 140	M30×1.5
160	160	M36×1.5

Specifications

Operating Pressure	Air Cylinder 9.9kgf/cm^2 {0.97MPa}
	Hydraulic cylinder 35kgf/cm^2 {3.5MPa}
Mounting	Standard, Flange type

Cautions

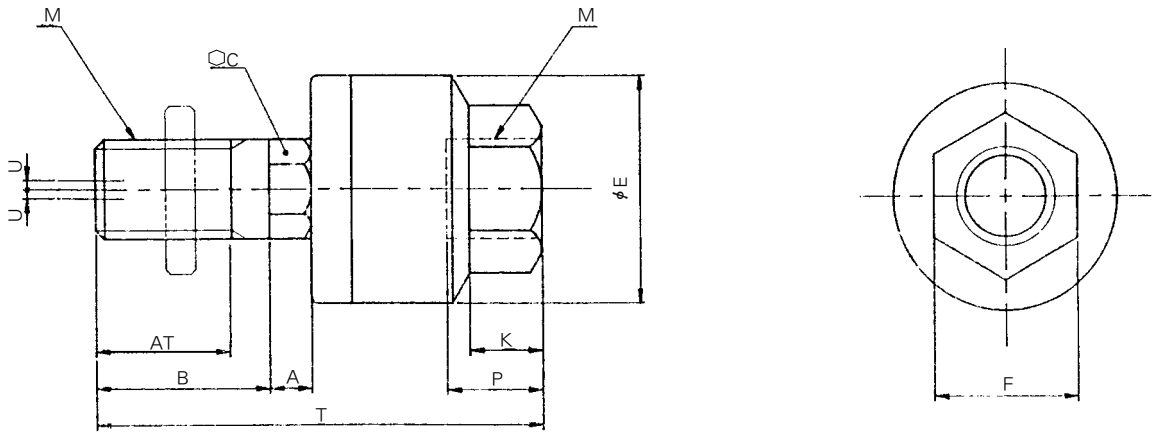
① Ambient temperature range 5° to 60°C
② Unscrew joint 1 or 2 turns from the end rod thread
③ Do not exceed axial misalignment of 5°
④ Do not exceed allowable eccentricity or life of joint could be shortened Exceed.
⑤ For applications other than air cylinder consult factory.
⑥ Joint is not suitable for rotation applications.
⑦ Cannot be re-used after dismantaling.
⑧ Sealed and pre-lubricated.

Model

Model	Cylinder Bore size(mm)	Thread	Working thrust N(kgf)		Allowable eccentricity U(mm)	Angle
			standard	flange type		
Standard / Thread size						
SF10	10	M4×0.7	5.4(0.054)	–	0.5	±5°
SF16	16	M5×0.8	12.3(0.123)	–	0.5	
SF□20	20	M8×1.25	110(1.1)	110(1.1)	0.5	
SF□32	25.32	M10×1.25	250(2.5)	250(2.5)	0.5	
SF□40	40	M14×1.5	600(6.0)	440(4.4)	0.75	
SF□63	50.63	M18×1.5	1100(11)	1100(11)	1	
SF□80	80	M22×1.5	1800(18)	1800(18)	1.25	
SF□100	100	M26×1.5	2800(28)	2800(28)	2	
SF□125	125.140	M30×1.5	5400(54)	3600(36)	2.5	
SF□160	160	M36×1.5	7100(71)	5500(55)	3	

Basic Type/Series SF

SF 10~160

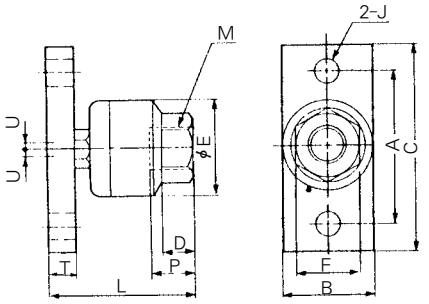


(mm)

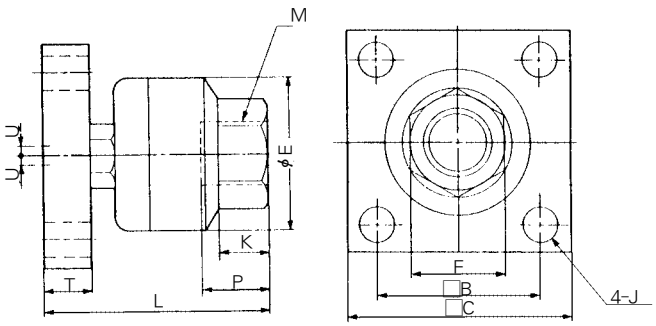
Cylinder Size (mm)	Model	M		T	AT	B	A	C	K	E	F	P	U	N(Kgf)
		Port size	Pitch											
10	SF10	M4	0.7	26	9	10	1.5	5	4.6	12	7	5.5	0.5	5.4(0.054)
16	SF16	M5	0.8	34	12	14	2	6	5.6	16	10	7	0.5	12.3(0.123)
20	SF20	M8	1.25	45	15	16.5	5	7	6	21	13	8	0.5	110(1.1)
25,32	SF32	M10	1.25	47	17	18	5	8	8	24	17	9	0.5	250(2.5)
40	SF40	M14	1.5	62	20	22	6	11	11	31	22	13	0.75	600(6.0)
50,63	SF63	M18	1.5	75	25	26	6.5	14	13	41	27	15	1	1100(11)
80	SF80	M22	1.5	89	27	29	7	19	16	50	32	18	1.25	1800(18)
100	SF100	M26	1.5	110	34	36	11	24	21	59	41	24	2	2800(28)
125,140	SF125	M30	1.5	153	42	46	14	30	22	79	46	38	2.5	5400(54)
160	SF160	M36	1.5	179	52	56	16	36	24	96	55	42	3	7100(71)

Flange Type/Series SFF

SFF20~40



SFF50~160



Cylinder Size (mm)	Model	M		L	B	A	C	K	E	F	T	J	P	U	N(kgf)
		Port Size	Pitch												
20	SFF20	M8	1.25	33	19	36	48	7	21	13	6	6.6	8	0.5	110(1.1)
25,32	SFF32	M10	1.25	36	25	40	52	8	24	17	6	6.6	9	0.5	250(2.5)
40	SFF40	M14	1.5	50	32	52	70	11	31	22	9	9	13	0.75	440(4.4)
50,63	SFF63	M18	1.5	62	-	45	65	13.4	41	27	12	9	15	1	1100(11)
80	SFF80	M22	1.5	76.5	-	55	75	16	50	32	16	11	18	1.25	1800(18)
100	SFF100	M26	1.5	94	-	65	90	20	69.5	41	19	11	24	2	2800(28)
125,140	SFF125	M30	1.5	132	-	82	125	22	79	46	24	18	38	2.5	3600(36)
160	SFF160	M36	1.5	154	-	100	150	24	96	55	29	22	42	3	5500(55)