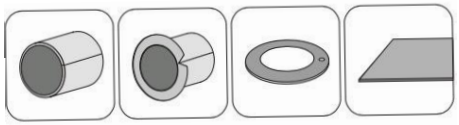
FMB
Slide Bearing Specialist

SF-1 wrapped bushing

Steel+porous bronze sinter++PTFE

SF-1 Carbon Steel self-lubricating bearings used high quality low-carbon steel plate as base, sintered porous bronze as its interlayer and the Compound of PTFE and Lead as its surface. It offers the property of good self-lubrication, low wear, low friction good sliding characteristics, low noise. It has been widely applied to various mechanical sliding positions, such as textile machinery, printing machinery, hydraulic pressure transit vehicle, tobacco machinery, gymnastic instrument and agricultural machinery etc.

Availability



Performance index		Data
Max Load Capacity	Static load	250N/mm²
	Dynamic load	140N/mm²
Max Sliding Speed	Dry friction	2.5m/s
	Oil lubrication	5.0m/s
Max PV Value Limit	Dry lubrication	3.6 N/mm² * m/s
	Oil lubrication	50 N/mm² * m/s
Friction coefficient	Dry friction	0.08~0.20
	Oil lubrication	0.2~0.07
Working temperature		-195°C~+280°C
Thermal conductivity		42W/m*K
Coeficient of themal expansion		11*10-6/K

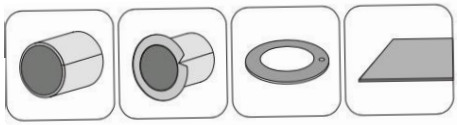
FMB
Slide Bearing Specialist

SF-1D wrapped bushing

Steel+porous bronze sinter++PTFE

SF-1D has the same structure with SF-1, particularly suitable for hydraulic pump. It is a special formula designed by combining oil cylinder with the working principle of bumpers. Besides the advantages of SF-1, it is particularly applicable for the situation of great cross range force of frequent to-and-fro. It is applicable for automobile shock absorbers, motorcycle bumper and various hydraulic pressure cylinders etc.

Availability



Performance index		Data
Max Load Capacity	Static load	250N/mm²
	Dynamic load	140N/mm²
Max Sliding Speed	Dry friction	3m/s
	Oil lubrication	5.0m/s
Max PV Value Limit	Dry lubrication	3.8 N/mm² * m/s
	Oil lubrication	50 N/mm² * m/s
Friction coefficient		0.04~0.2
Working temperature		-195°C~+270°C
Thermal conductivity		42W/m*K

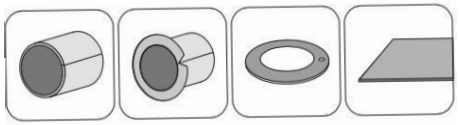
FMB
Slide Bearing Specialist

SF-1B wrapped bushing

Bronze+porous bronze +PTFE

SF-1B Bronze Pb-free self-lubricating bearing used bronze alloy as base with special formulation, sintered porous bronze as its interlayer and the Compound of PTFE and lipophilicity ber as its surface. It offers the property of good self-lubricating, low wear, low friction, corrosion resistence. It has been widely applied to metallurgy steel machinery, joined casting machinery, cement grout pump and spiral conveyer machinery etc.

Availability



Performance index		Data
Max Load Capacity	Static load	250N/mm²
	Dynamic load	140N/mm²
Max Sliding Speed	Dry friction	2.5m/s
	Oil lubrication	5.0m/s
Max PV Value Limit	Dry lubrication	3.6 N/mm² * m/s
	Oil lubrication	50 N/mm² * m/s
Friction coefficient	Dry friction	0.08~0.20
	Oil lubrication	0.2~0.07
Working temperature		-195°C~+280°C
Thermal conductivity		70W/m*K
Coeficient of themal expansion		17*10-6/K

SF-1/1D/1B/1W

FMB Slide Bearing Specialist

O.D./Wall Thickness tolerance

轴套外径公差表
Bushing O.D.Tolerances Table

外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	+0.055 +0.025
10 < ϕD≤18	+0.065 +0.030
18 < ϕD≤30	+0.075 +0.035
30 < ϕD≤50	+0.085 +0.045
50 < ϕD≤80	+0.100 +0.055
80 < ϕD≤120	+0.120 +0.070
120 < ϕD≤180	+0.170 +0.100
180 < ϕD≤250	+0.210 +0.130
250 < ϕD≤305	+0.260 +0.170

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
ϕd < 5	0.75 $^{0}_{-0.020}$
5≤ ϕd≤18	1.0 $^{+0.005}_{-0.020}$
18 < ϕd≤25	1.5 $^{+0.005}_{-0.025}$
25 < ϕd < 45	2.0 $^{+0.005}_{-0.030}$
45≤ ϕd < 80	2.5 $^{+0.005}_{-0.040}$
80≤ ϕd < 120	2.5 $^{-0.010}_{-0.060}$
ϕd≥120	2.5 $^{-0.035}_{-0.085}$

可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

SF-1□ ×× ××
- 直套型号 Bushing Type
- 直套内径 Bushing Inner Diameter
- 直套高度 Bushing Length

■ 英制直套标注方式 The Inch Bushing Label Mode

SF-1□ ×× ××
- 直套型号 Bushing Type
- 直套内径 Bushing Inner Diameter
- 直套高度 Bushing Length

■ 翻边套标注方式 Flange Bushing Label Mode

SF-1□F ×× ×××
- 翻边套型号 Flange Bushing Type
- 翻边套内径 Flange Bushing Inner Diameter
- 翻边套高度 Flange Bushing Length

■ 英制翻边套标注方式 The Inch Flange Bushing Label Mode

SF-1□F ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification

■ 垫片标注方式 Washer Label Mode

SF-1□W ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification

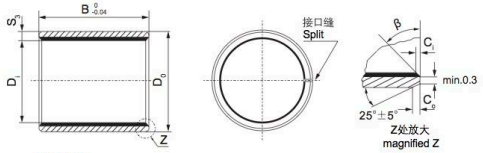
■ 英制垫片标注方式 The Inch Washer Label Mode

SF-1□W ×× ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification
- 垫片规格 Washer Specification

■ 板材标注方式 Strip Label Mode

SF-1□P ××× ×××
- 板材型号 Strip Type
- 板材厚度 Strip Wall Thickness
- 板材宽度 Strip Width

Metric Standard bushing



内外倒角

S_3	C_0	C_1	β
0.75	0.5 ± 0.3	0.25 ± 0.2	30° ± 5°
1.00	0.6 ± 0.3	0.30 ± 0.2	30° ± 5°
1.50	0.7 ± 0.3	0.50 ± 0.3	30° ± 5°
2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°

※标准直套标注方式：Standard Bushing Label Mode SF-1□ 0606

单位unit:mm

型号 Type	轴径(f7) D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 $D_{i.a}$	配合间隙 D_D	壁厚 S_3	长度B $^{0}_{-0.40}$ (d≤Φ28 L-0.30, d>Φ30 L-0.40) 6	8	10	12	15	20	25	30	40	50
SF-1□	6 $^{-0.010}_{-0.022}$	8 $^{+0.015}$	8 $^{+0.055}_{+0.025}$	6.055 5.990	0.077 0.000	1.005 0.980	0606	0608	0610							
SF-1□	8 $^{-0.013}_{-0.028}$	10 $^{+0.015}$	10 $^{+0.055}_{+0.025}$	8.055 7.990	0.083 0.003		0806	0808	0810	0812	0815					
SF-1□	10 $^{-0.013}_{-0.028}$	12 $^{+0.018}$	12 $^{+0.065}_{+0.030}$	10.058 9.990	0.086 0.003		1006	1008	1010	1012	1015	1020				
SF-1□	12 $^{-0.016}_{-0.034}$	14 $^{+0.018}$	14 $^{+0.065}_{+0.030}$	12.058 11.990	0.092 0.006		1206	1208	1210	1212	1215	1220	1225			
SF-1□	13 $^{-0.016}_{-0.034}$	15 $^{+0.018}$	15 $^{+0.065}_{+0.030}$	13.058 12.990					1310			1320				
SF-1□	14 $^{-0.016}_{-0.034}$	16 $^{+0.018}$	16 $^{+0.065}_{+0.030}$	14.058 13.990					1410	1412	1415	1420	1425			
SF-1□	15 $^{-0.016}_{-0.034}$	17 $^{+0.018}$	17 $^{+0.065}_{+0.030}$	15.058 14.990					1510	1512	1515	1520	1525			
SF-1□	16 $^{-0.016}_{-0.034}$	18 $^{+0.018}$	18 $^{+0.065}_{+0.030}$	16.058 15.990					1610	1612	1615	1620	1625			
SF-1□	17 $^{-0.016}_{-0.034}$	19 $^{+0.021}$	19 $^{+0.075}_{+0.035}$	17.061 16.990	0.095 0.006				1710	1712		1720				
SF-1□	18 $^{-0.016}_{-0.034}$	20 $^{+0.021}$	20 $^{+0.075}_{+0.035}$	18.061 17.990					1810	1812	1815	1820	1825			
SF-1□	20 $^{-0.020}_{-0.041}$	23 $^{+0.021}$	23 $^{+0.075}_{+0.035}$	20.071 19.990	0.112 0.010	1.505 1.475			2010	2012	2015	2020	2025	2030		
SF-1□	22 $^{-0.020}_{-0.041}$	25 $^{+0.021}$	25 $^{+0.075}_{+0.035}$	22.071 21.990					2210	2212	2215	2220	2225	2230		
SF-1□	24 $^{-0.020}_{-0.041}$	27 $^{+0.021}$	27 $^{+0.075}_{+0.035}$	24.071 23.990							2415	2420	2425	2430		
SF-1□	25 $^{-0.020}_{-0.041}$	28 $^{+0.021}$	28 $^{+0.075}_{+0.035}$	25.071 24.990					2510	2512	2515	2520	2525	2530	2540	2550
SF-1□	28 $^{-0.020}_{-0.041}$	32 $^{+0.025}$	32 $^{+0.085}_{+0.045}$	28.085 27.990	0.126 0.010	2.005 1.970					2815	2820	2825	2830	2840	
SF-1□	30 $^{-0.020}_{-0.041}$	34 $^{+0.025}$	34 $^{+0.085}_{+0.045}$	30.085 29.990						3012	3015	3020	3025	3030	3040	
SF-1□	32 $^{-0.025}_{-0.050}$	36 $^{+0.025}$	36 $^{+0.085}_{+0.045}$	32.085 31.990	0.135 0.015							3220		3230	3240	
SF-1□	35 $^{-0.025}_{-0.050}$	39 $^{+0.025}$	39 $^{+0.085}_{+0.045}$	35.085 34.990						2512	2515	2520	2525	2530	2540	3550
SF-1□	38 $^{-0.025}_{-0.050}$	42 $^{+0.025}$	42 $^{+0.085}_{+0.045}$	38.085 37.990							3815			3830	3840	
SF-1□	40 $^{-0.025}_{-0.050}$	44 $^{+0.025}$	44 $^{+0.085}_{+0.045}$	40.085 39.990						4012		4020	4025	4030	4040	4050

SF-1/1D/1B/1W

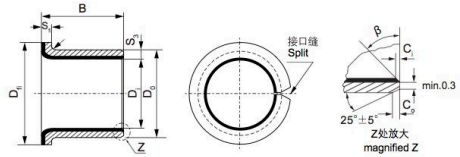
FMB Slide Bearing Specialist

Metric Standard bushing

单位unit:mm

型号 Type	轴径 (f7) D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 D_{ca}	配合间隙 C_O	壁厚 S_3	长度B $^{0}_{-0.40}$									
							20	25	30	40	50	60	70	80	100	115
SF-1□	45 $^{-0.050}_{-0.025}$	50 $^{+0.025}$	50 $^{+0.085}_{+0.045}$	45.105 44.990	0.155 0.015	2.505 2.460	4520	4525	4530	4540	4550					
SF-1□	50 $^{-0.050}_{-0.025}$	55 $^{+0.030}$	55 $^{+0.100}_{+0.055}$	50.110 49.990	0.160 0.015		5020		5030	5040	5050	5060				
SF-1□	55 $^{-0.060}_{-0.030}$	60 $^{+0.030}$	60 $^{+0.100}_{+0.055}$	55.110 54.990	0.170 0.020				5530	5540	5550	5560				
SF-1□	60 $^{-0.060}_{-0.030}$	65 $^{+0.030}$	65 $^{+0.100}_{+0.055}$	60.110 59.990					6030	6040	6050	6060	6070			
SF-1□	65 $^{-0.060}_{-0.030}$	70 $^{+0.030}$	70 $^{+0.100}_{+0.055}$	65.110 64.990					6530	6540	6550	6560	6570			
SF-1□	70 $^{-0.060}_{-0.030}$	75 $^{+0.030}$	75 $^{+0.100}_{+0.055}$	70.110 69.990						7040	7050	7060	7070	7080		
SF-1□	75 $^{-0.060}_{-0.030}$	80 $^{+0.030}$	80 $^{+0.100}_{+0.055}$	75.110 74.990					7530	7540	7550	7560	7570	7580		
SF-1□	80 $^{-0.045}$	85 $^{+0.035}$	85 $^{+0.120}_{+0.070}$	80.155 80.020	0.201 0.020	2.490 2.440				8040	8050	8060	8070	8080	80100	
SF-1□	85 $^{-0.054}$	90 $^{+0.035}$	90 $^{+0.120}_{+0.070}$	85.155 85.020	0.209 0.020					8540		8560		8580	85100	
SF-1□	90 $^{-0.054}$	95 $^{+0.035}$	95 $^{+0.120}_{+0.070}$	90.155 90.020						9040	9050	9060		9080	90100	
SF-1□	95 $^{-0.054}$	100 $^{+0.035}$	100 $^{+0.120}_{+0.070}$	95.155 95.020							9550	9560		9580	95100	
SF-1□	100 $^{-0.054}$	105 $^{+0.035}$	105 $^{+0.120}_{+0.070}$	100.155 100.020							10050	10060		10080		100115
SF-1□	105 $^{-0.054}$	110 $^{+0.035}$	110 $^{+0.120}_{+0.070}$	105.155 105.020								10560		10580		105115
SF-1□	110 $^{-0.054}$	115 $^{+0.035}$	115 $^{+0.120}_{+0.070}$	110.115 110.020								11060		11080		110115
SF-1□	120 $^{-0.054}$	125 $^{+0.040}$	125 $^{+0.170}_{+0.100}$	120.210 120.070	0.264 0.070	2.465 2.415						12060		12080	120100	
SF-1□	125 $^{-0.063}$	130 $^{+0.040}$	130 $^{+0.170}_{+0.100}$	125.210 125.070	0.273 0.070							12560			125100	125115
SF-1□	130 $^{-0.063}$	135 $^{+0.040}$	135 $^{+0.170}_{+0.100}$	130.210 130.070								13060		13080	130100	
SF-1□	140 $^{-0.063}$	145 $^{+0.040}$	145 $^{+0.170}_{+0.100}$	140.210 140.070								14060		14080	140100	
SF-1□	150 $^{-0.063}$	155 $^{+0.040}$	155 $^{+0.170}_{+0.100}$	150.210 150.070								15060		15080	150100	
SF-1□	160 $^{-0.063}$	165 $^{+0.040}$	165 $^{+0.170}_{+0.100}$	160.210 160.070								16060		16080	160100	160115
SF-1□	180 $^{-0.063}$	185 $^{+0.046}$	185 $^{+0.210}_{+0.130}$	180.216 180.070	0.279 0.070	2.465 2.415								18080	180100	
SF-1□	190 $^{-0.072}$	195 $^{+0.046}$	195 $^{+0.210}_{+0.130}$	190.216 190.070	0.288 0.070									19080	190100	
SF-1□	200 $^{-0.072}$	205 $^{+0.046}$	205 $^{+0.210}_{+0.130}$	200.016 200.070										20080	200100	
SF-1□	220 $^{-0.072}$	225 $^{+0.046}$	225 $^{+0.210}_{+0.130}$	220.216 220.070								20060		22080	220100	
SF-1□	250 $^{-0.072}$	255 $^{+0.052}$	255 $^{+0.260}_{+0.170}$	250.222 250.070	0.294 0.070	2.465 2.415								25080	250100	
SF-1□	260 $^{-0.081}$	265 $^{+0.052}$	265 $^{+0.260}_{+0.170}$	260.222 260.070	0.303 0.070									26080	260100	
SF-1□	280 $^{-0.081}$	285 $^{+0.052}$	285 $^{+0.260}_{+0.170}$	280.222 280.070										28080	280100	
SF-1□	300 $^{-0.081}$	300 $^{+0.052}$	300 $^{+0.260}_{+0.170}$	300.222 300.070												

Metric Standard Flange bushing



S_3	1.0	1.5	2.0	2.5
r	$1^{0.5}$	1±0.5	1.5±0.5	2±0.5

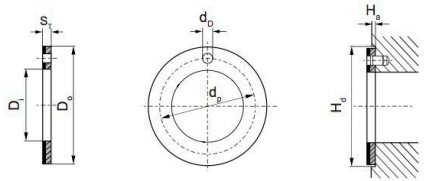
※标准翻边套标注方式：Standard Flange Bushing Label Mode SF-1□F 06040

单位unit:mm

型号规格 Designation	轴径 D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 D_{ca}	配合间隙 C_O	壁厚 S_3	尺寸				
							D_i	D_o	D_s±0.5	B±0.25	S_4-0.2
SF-1□F 06040	6 $^{-0.013}_{-0.028}$	8 $^{+0.015}$	8 $^{+0.055}_{+0.025}$	6.055 5.990	0.077 0.000	1.005 0.980	6	8	12	4	1
SF-1□F 06070										7	
SF-1□F 08055	8 $^{-0.013}_{-0.028}$	10 $^{+0.015}$	10 $^{+0.055}_{+0.025}$	8.055 7.990	0.083 0.003		8	10	15	5.5	
SF-1□F 08075										7.5	
SF-1□F 10070	10 $^{-0.016}_{-0.034}$	12 $^{+0.018}$	12 $^{+0.055}_{+0.025}$	10.058 9.990	0.086 0.003		10	12	18	7	
SF-1□F 10090										9	
SF-1□F 10120										12	
SF-1□F 12070	12 $^{-0.016}_{-0.034}$	14 $^{+0.018}$	14 $^{+0.065}_{+0.030}$	12.058 11.990	0.092 0.006		12	14	20	7	
SF-1□F 12090										9	
SF-1□F 12120										12	
SF-1□F 14120	14 $^{-0.016}_{-0.043}$	16 $^{+0.018}$	16 $^{+0.065}_{+0.030}$	14.058 13.990			14	16	22	12	
SF-1□F 14170										17	
SF-1□F 15090	15 $^{-0.016}_{-0.034}$	17 $^{+0.018}$	17 $^{+0.065}_{+0.030}$	15.058 14.990			15	17	23	9	
SF-1□F 15120										12	
SF-1□F 15170										17	
SF-1□F 16120	16 $^{-0.016}_{-0.034}$	18 $^{+0.018}$	18 $^{+0.065}_{+0.030}$	16.058 15.990			16	18	24	12	
SF-1□F 16170										17	
SF-1□F 18120	18 $^{-0.016}_{-0.034}$	20 $^{+0.021}$	20 $^{+0.075}_{+0.035}$	18.061 17.990	0.095 0.006		18	20	26	12	
SF-1□F 18170										17	
SF-1□F 18200										20	
SF-1□F 20115	20 $^{-0.020}_{-0.041}$	23 $^{+0.021}$	23 $^{+0.075}_{+0.035}$	20.071 19.990	0.112 0.010	1.505 1.475	20	23	30	11.5	1.5
SF-1□F 20165										16.5	
SF-1□F 20215										21.5	
SF-1□F 22150	22 $^{-0.020}_{-0.041}$	25 $^{+0.021}$	25 $^{+0.075}_{+0.035}$	22.071 21.990			22	25	32	15	
SF-1□F 22200										20	
SF-1□F 25115	25 $^{-0.020}_{-0.041}$	28 $^{+0.021}$	28 $^{+0.075}_{+0.035}$	25.071 24.990			25	28	35	11.5	
SF-1□F 25165										16.5	
SF-1□F 25215										21.5	
SF-1□F 30160	30 $^{-0.025}_{-0.050}$	34 $^{+0.025}$	34 $^{+0.075}_{+0.035}$	30.285 29.990	0.126 0.010	2.005 1.970	30	34	42	16	2
SF-1□F 30260										26	
SF-1□F 35160	35 $^{-0.025}_{-0.050}$	39 $^{+0.025}$	39 $^{+0.085}_{+0.045}$	35.085 34.990	0.135 0.015		35	39	47	16	
SF-1□F 35260										26	
SF-1□F 40260	40 $^{-0.025}_{-0.050}$	44 $^{+0.025}$	44 $^{+0.085}_{+0.045}$	40.085 39.990			40	44	53	26	
SF-1□F 40400										40	

FMB Slide Bearing Specialist

Metric Standard Washer

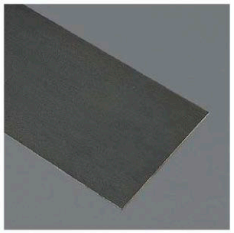


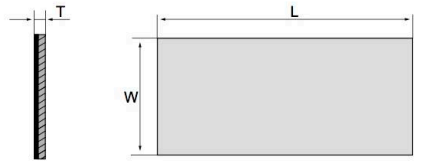
※标准垫片标注方式：Standard Washer Label Mode SF-1□W10

单位unit:mm

型号规格	轴径 D_s	垫片尺寸				安装尺寸		H_d+0.12
		D_i+0.25	D_o-0.25	S_T-0.05	d_B±0.125	d_D $^{+0.4}_{+0.1}$	H_a±0.2	
SF-1□W10	8	10	20	1.5	15	1.5	1	20
SF-1□W12	10	12	24		18			24
SF-1□W14	12	14	26		20	2		26
SF-1□W16	14	16	30		23			30
SF-1□W18	16	18	32		25			32
SF-1□W20	18	20	36		28	3		36
SF-1□W22	20	22	38		30			38
SF-1□W24	22	24	42		33			42
SF-1□W26	24	26	44		35			44
SF-1□W28	26	28	48		38	4		48
SF-1□W32	30	32	54		43			54
SF-1□W38	36	38	62		50			62
SF-1□W42	40	42	66		54			66
SF-1□W48	46	48	74	2	61		1.5	74
SF-1□W52	50	52	78		65			78
SF-1□W62	60	62	90		76			90

Metric Standard Strip



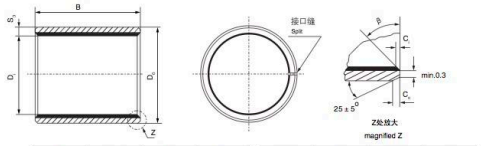


※标准板材标注方式：Standard Strip Label Mode SF-1□P 010130

单位unit:mm

型号规格 Designation	长度 Length L $^{+5.0}_{0}$	宽度 Width W $^{+2.0}_{0}$	厚度 Thickness T $^{0}_{-0.050}$
SF-1□P 010130	500	130	1.0
SF-1□P 015130	500	130	1.5
SF-1□P 020130	500	130	2.0
SF-1□P 025130	500	130	2.5

Inch Standard Cylindrical Bushes



S_3	C_o	C_i	β
0.0315	0.008-0.030	0.002-0.018	30° ± 5°
0.0472	0.012-0.035	0.006-0.022	30° ± 5°
0.0630	0.015-0.040	0.008-0.032	30° ± 5°

S_3	C_o	C_i	β
0.0787	0.030-0.060	0.008-0.032	30° ± 5°
0.0945	0.050-0.095	0.020-0.043	45° ± 5°

※标准英制直套标注方式：Standard Inch Bushing Label Mode SF-1□ 02DU02

单位unit: inch

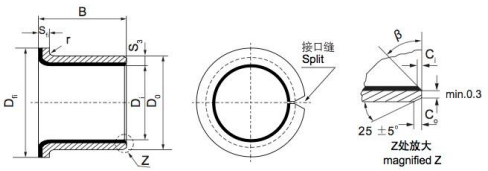
轴径 D_s	座孔 H7 D_H	压装后内孔公差 D_{LB}	配合间隙 D_D	长度B±0.010					
0.1243 0.1236	0.1878 0.1873	0.1268 0.1243	0.0032 0.0000	02IB02	02IB03				
0.1554 0.1547	0.2191 0.2186	0.1581 0.1556	0.0034 0.0002	025IB025	025IB04				
0.1865 0.1858	0.2503 0.2497	0.1893 0.1867	0.0035 0.0002	03IB03	03IB04	03IB06			
0.2490 0.2481	0.3128 0.3122	0.2518 0.2492	0.0037 0.0002	04IB04	04IB06				
0.3115 0.3106	0.3753 0.3747	0.3143 0.3117		05IB16	05IB08				
0.3740 0.3731	0.4691 0.4684	0.3769 0.3742	0.0038 0.0002	06IB03	06IB04	06IB06	06IB08	06IB10	06IB12
0.4365 0.4355	0.5316 0.5309	0.4394 0.4367	0.0039 0.0002	07IB08	07IB12				
0.4990 0.4980	0.5941 0.5934	0.5019 0.4992		08IB04	08IB06	08IB08	08IB10	08IB12	08IB14
0.5615 0.5605	0.6566 0.6559	0.5644 0.5617		19IB06	09IB08	09IB10	09IB12		
0.6240 0.6230	0.7192 0.7184	0.6270 0.6242	0.0040 0.0002	10IB04	10IB08	10IB10	10IB12	10IB14	10IB16
0.6865 0.6855	0.7817 0.7809	0.6895 0.6867		11IB14					
0.7491 0.7479	0.8755 0.8747	0.7525 0.7493	0.0046 0.0002	12IB04	12IB06	12IB08	12IB10	12IB12	12IB16
0.8116 0.8104	0.9380 0.9372	0.8150 0.8118		13IB12	13IB18				
0.8741 0.8729	1.0005 0.9997	0.8775 0.8743		14IB04	14IB06	14IB12	14IB16	14IB20	
0.9991 0.9979	1.1255 1.1247	1.0025 0.9993		16IB06	16IB08	16IB12	16IB16	16IB20	16IB24
1.1238 1.1226	1.2818 1.2808	1.1278 1.1240	0.0052 0.0002	18IB06	18IB10	18IB12	18IB16		
1.2488 1.2472	1.4068 1.4058	1.2528 1.2490	0.0056 0.0002	20IB06	20IB12	20IB14	20IB16	20IB20	20IB28
1.3738 1.3722	1.5318 1.5308	1.3778 1.3740		22IB12	22IB12	22IB24	22IB28		
1.4988 1.4972	1.6568 1.6558	1.5028 1.4990		24IB08	24IB16	24IB18	24IB20	24IB24	24IB32
1.6238 1.6222	1.7818 1.7808	1.6278 1.6240		26IB16	26IB24				
1.7487 1.7471	1.9381 1.9371	1.7535 1.7489	0.0064 0.0002	28IB16	28IB24	28IB32			

FMB Slide Bearing Specialist

Inch Standard Cylindrical Bushes

轴径 D_s	座孔 H7 D_H	压装后内孔公差 $D_{i,a}$	配合间隙 D_D	长度B ± 0.010								
1.8737 1.8721	2.0633 2.0621	1.8787 1.8739	0.0066 0.0002	30IB12	30IB16	30IB36						
1.9987 1.9969	2.1883 2.1871	2.0037 1.9989	0.0068 0.0002	32IB08	32IB16	32IB24	32IB28	32IB32	32IB40			
2.1257 2.1239	2.3130 2.3118	2.1326 2.1262	0.0087 0.0005	34IB48								
2.2507 2.2489	2.4377 2.4365	2.2573 2.2509		36IB28	36IB32	36IB40	36IB48	36IB56	36IB60	36IB64	36IB72	
2.5011 2.4993	2.6881 2.6869	2.5077 2.5013	0.0084 0.0002	40IB16	40IB26	40IB32	40IB40	40IB48	40IB56	40IB60	40IB64	40IB72
2.7500 2.7482	2.9370 2.9358	2.7566 2.7502		44IB32	44IB36	44IB40	44IB48	44IB56	44IB60	44IB64	44IB72	44IB76
2.8752 2.8734	3.0623 3.0610	2.8819 2.8754	0.0085 0.0002	46IB32	46IB36	46IB40	46IB48	46IB56	46IB60	46IB64	46IB72	46IB76
3.0000 2.9982	3.1872 3.1858	3.0068 3.0062	0.0086 0.0002	48IB32	48IB36	48IB48	48IB48	48IB56	48IB60	48IB64	48IB72	48IB76
3.2500 3.2480	3.4375 3.4358	3.2568 3.2502	0.0088 0.0002	52IB32	52IB36	52IB48	52IB48	52IB56	52IB60	52IB64	52IB72	52IB76
3.5000 3.4978	3.6872 3.6858	3.5068 3.5002		56IB32	56IB36	56IB48	56IB48	56IB56	56IB60	56IB64	56IB72	56IB76
3.6250 3.6228	3.8122 3.8108	3.6318 3.6252		58IB32	58IB36	58IB48	58IB48	58IB56	58IB60	58IB64	58IB72	58IB76
3.7500 3.7478	3.9372 3.9358	3.7568 3.7502		60IB32	60IB36	60IB48	60IB48	60IB56	60IB60	60IB64	60IB72	60IB76
4.0000 3.9978	4.1872 4.1858	4.0068 4.0002	0.0090 0.0002	64IB32	64IB36	64IB48	64IB48	64IB56	64IB60	64IB64	64IB72	64IB76
4.2500 4.2478	4.4372 4.4358	4.2568 4.2502		68IB32	68IB36	68IB48	68IB48	68IB56	68IB60	68IB64	68IB72	68IB76
4.3750 4.3728	4.5622 4.5608	4.3818 4.3752		70IB32	70IB36	70IB48	70IB48	70IB56	70IB60	70IB64	70IB72	70IB76
4.5000 4.4978	4.6872 4.6858	4.5068 4.5002		72IB32	72IB36	72IB48	72IB48	72IB56	72IB60	72IB64	72IB72	72IB76
4.7500 4.7578	4.9374 4.9358	4.7572 4.7502	0.0094 0.0002	76IB32	76IB36	76IB48	76IB48	76IB56	76IB60	76IB64	76IB72	76IB76
4.9986 4.9961	5.1860 5.1844	5.0056 4.9988		80IB32	80IB36	80IB48	80IB48	80IB56	80IB60	80IB64	80IB72	80IB76
5.2500 5.2475	5.4374 5.4358	5.2570 5.2502		84IB32	84IB36	84IB48	84IB48	84IB56	84IB60	84IB64	84IB72	84IB76
5.5000 5.4975	5.6874 5.6858	5.5070 5.5002		88IB32	88IB36	88IB48	88IB48	88IB56	88IB60	88IB64	88IB72	88IB76
5.7500 5.7475	5.9374 5.9358	5.7570 5.7502	0.0095 0.0002	92IB32	92IB36	92IB40	92IB48	92IB56	92IB60	92IB64	92IB72	92IB76
6.0000 5.9975	6.1874 6.1858	6.0070 6.0002		96IB32	96IB36	96IB40	96IB48	96IB56	96IB60	96IB64	96IB72	96IB76
6.2500 6.2475	6.4374 6.4358	6.2570 6.2502		100IB32	100IB36	100IB40	100IB48	100IB56	100IB60	100IB64	100IB72	100IB76
6.5000 6.4975	6.6874 6.6858	6.5070 6.5002		104IB32	104IB36	104IB40	104IB48	104IB56	104IB60	104IB64	104IB72	104IB76
6.7500 6.7475	6.9374 6.9358	6.7570 6.7502		108IB32	108IB36	108IB40	108IB48	108IB56	108IB60	108IB64	108IB72	108IB76
6.9954 9.9929	7.1830 7.1812	7.0026 6.9956	0.0097 0.0002	112IB32	112IB36	112IB40	112IB48	112IB56	112IB60	112IB64	112IB72	112IB76

Inch Standard Flange Bushes

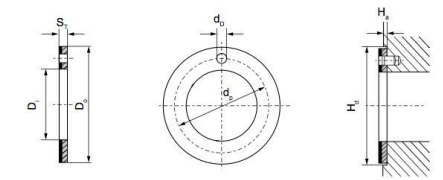


※标准英制翻边套标注方式：Standard Inch Flange Bushing Label Mode SF-1□F 06040

单位unit: inch

轴径 D_s	座孔 H7 D_H	压装后内孔公差 $D_{i,a}$	配合间隙 D_D	法兰尺寸 D_{f1}	法兰厚度 S_{f1}	长度B ± 0.010			
0.3750 0.3740	0.4691 0.4684	0.3779 0.3752	0.0039 0.0002	0.7075 0.6675	0.052 0.044	06FIB04	06FIB06	06FIB08	06FIB12
0.5000 0.4990	0.5941 0.5934	0.5029 0.5002	0.0039 0.0002	0.8325 0.7925	0.052 0.044	08FIB04	08FIB06	08FIB08	08FIB12
0.6250 0.6240	0.7192 0.7184	0.6280 0.6252	0.0040 0.0002	0.9575 0.9175	0.052 0.044	10FIB06	10FIB08	10FIB10	10FIB12
0.7500 0.7488	0.8755 0.8747	0.7534 0.7502	0.0046 0.0002	1.1450 1.1050	0.068 0.060	12FIB06	12FIB08	12FIB12	12FIB16
0.8750 0.8738	1.0005 0.9997	0.8787 0.8752	0.0046 0.0002	1.2200 1.1800	0.068 0.060	14FIB08	14FIB12	14FIB16	14FIB20
1.0000 0.9988	1.1255 1.1247	1.0034 1.0002	0.0046 0.0002	1.3950 1.3550	0.068 0.060	16FIB08	16FIB12	16FIB16	16FIB20
1.2500 1.2484	1.4068 1.4058	1.2540 1.2502	0.0056 0.0002	1.7700 1.7300	0.083 0.075	20FIB16	20FIB20	20FIB24	
1.5000 1.4984	1.6568 1.6558	1.5040 1.5002	0.0056 0.0002	2.0200 1.9800	0.083 0.075	24FIB16	24FIB24	24FIB32	
1.7500 1.7484	1.9381 1.9371	1.7548 1.7502	0.0064 0.0002	2.3950 2.3550	0.098 0.090	28FIB16	28FIB24	28FIB32	

SF-1WC 英制标准垫片
inch Standard Washer

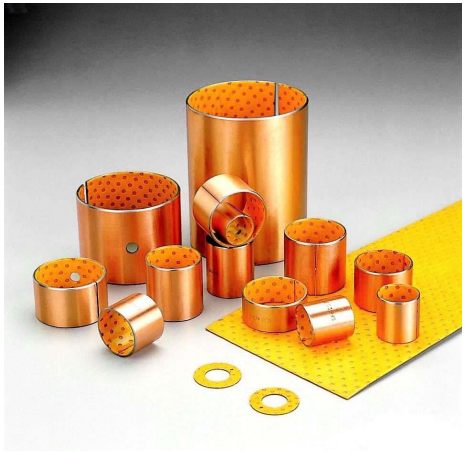


※标准英制垫片标注方式：Standard Inch Washer Label Mode SF-1□W DU06

单位unit: inch

规格 Standard No.	垫片尺寸 Washer size				安装尺寸 Installation size		
	D_1+0.010	D_D-0.010	S_T	d_D-0.010	d_D+0.010	H_a ± 0.010	H_a+0.010
SF-1 WC06IB	0.500	0.875	0.0630 0.0610	0.692	0.067	0.04	0.875
SF-1 WC07IB	0.562	1.000		0.786			1.000
SF-1 WC08IB	0.625	1.125		0.880	0.099		1.125
SF-1 WC09IB	0.687	1.187		0.942			1.187
SF-1 WC10IB	0.750	1.250		1.005			1.250
SF-1 WC11IB	0.812	1.375		1.009			1.375
SF-1 WC12IB	0.875	1.500		1.192	0.130		1.500
SF-1 WC13IB	0.937	1.625		1.286			1.625
SF-1 WC14IB	1.000	1.750		1.380			1.750
SF-1 WC16IB	1.125	2.000		1.567	0.161		2.000
SF-1 WC18IB	1.250	2.125		1.692			2.125
SF-1 WC20IB	1.375	2.250		1.817			2.250
SF-1 WC22IB	1.500	2.500		2.005	0.192		2.500
SF-1 WC24IB	1.625	2.625		2.130		0.07	2.625
SF-1 WC26IB	1.750	2.750		2.255			2.750
SF-1 WC28IB	2.000	3.000	0.0930 0.0910	2.505			3.000
SF-1 WC30IB	2.125	3.125		2.630			3.125
SF-1 WC32IB	2.250	3.250		2.755			3.250

FMB
Slide Bearing Specialist

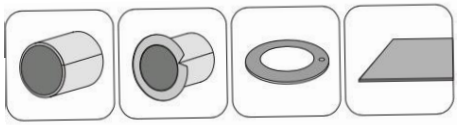


SF-2 wrapped bushing

Steel+porous bronze +POM

SF-2 Marginal Pb-free self-lubricating bearing is used steel-backing as its structure, sintered porous bronze as its interlayer, surface inlaid the modi ed POM. Suitable for marginally lubricated and dry operation on the conditions of lubrication indents grease. It has been widely applied to metallurgical machinery, Mine machinery, water conservancy machinery, vapor locomotive, building machinery, agriculture machinery, steel rolling industry etc.

Availability



Performance index		Data
Max Load Capacity	Static load	250N/mm²
	Dynamic load	140N/mm²
Max Sliding Speed	Grease lubrication	2.5m/s
Max PV Value Limit	Grease lubrication	2.8 N/mm² * m/s
Friction coefficient	Grease lubrication	0.05~0.25
Working temperature		-40°C~+130°C
Thermal conductivity		4W/m*K
Coeficient of themal expansion		11*10-6/K

FMB Slide Bearing Specialist

O.D./Wall thickness tolerance

轴套外径公差表
Bushing O.D.Tolerances Table

外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	+0.055 +0.025
10 < ϕD≤18	+0.065 +0.030
18 < ϕD≤30	+0.075 +0.035
30 < ϕD≤50	+0.085 +0.045
50 < ϕD≤80	+0.100 +0.055
80 < ϕD≤120	+0.120 +0.070
120 < ϕD≤180	+0.170 +0.100
180 < ϕD≤250	+0.210 +0.130
250 < ϕD≤305	+0.260 +0.170

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
8≤ ϕd≤18	1.0 −0.020 −0.045
18< ϕd≤25	1.5 −0.025 −0.055
25< ϕd<45	2.0 −0.030 −0.065
45≤ ϕd<80	2.5 −0.040 −0.085
ϕd≥80	2.5 −0.055 −0.115

可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

SF-2□ ×× ××
直套型号 Bushing Type
直套内径 Bushing Inner Diameter
直套高度 Bushing Length

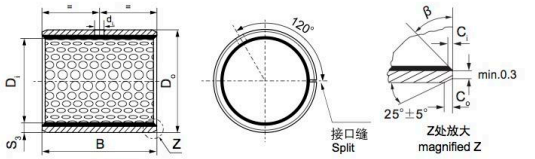
■ 板材标注方式 Strip Label Mode

SF-2□P ××× ×××
板材型号 Strip Type
板材厚度 Strip Wall Thickness
板材宽度 Strip Width

■ 垫片标注方式 Washer Label Mode

SF-2□W ××
垫片型号 Washer Type
垫片规格 Washer Specification

Metric Standard bushes



内外倒角

S_3	C_o	C_i	β
1.0	0.6±0.3	0.30±0.2	30°±5°
1.5	0.7±0.3	0.50±0.2	30°±5°

S_3	C_o	C_i	β
2.00	1.2±0.4	0.50±0.3	30°±5°
2.50	1.8±0.6	0.60±0.3	45°±5°

※标准直套标注方式：Standard Bushing Label Mode SF-2□ 1010

单位unit:mm

型号规格 Designation	轴径 D_s h8	座孔 H7 D_H	外径公差 D_O	压装后内孔公差 D_{La}	配合间隙 C_D	壁厚 S_3	油孔 d_L	长度 B $^{0}_{-0.40}$ 10	15	20	25	30	35	40	45	50	60
SF-2□	10 -0.022	12 +0.018	12 +0.065 +0.030	10.108 10.040	0.130 0.040	0.980 0.955	4	1010	1015	1020							
SF-2□	12 -0.027	14 +0.018	14 +0.065 +0.030	12.108 12.040	0.135 0.040			1210	1215	1220							
SF-2□	14 -0.027	16 +0.018	16 +0.065 +0.030	14.108 14.040					1415	1420							
SF-2□	15 -0.027	17 +0.018	17 +0.065 +0.030	15.108 15.040					1515	1520	1525						
SF-2□	16 -0.027	18 +0.018	18 +0.065 +0.030	16.108 16.040					1615	1620	1625						
SF-2□	18 -0.027	20 +0.021	20 +0.075 +0.035	18.111 18.040	0.138 0.040				1815	1820	1825						
SF-2□	20 -0.033	23 +0.021	23 +0.075 +0.035	20.131 20.050	0.164 0.050	1.475 1.445			2015	2020	2025	2030					
SF-2□	22 -0.033	25 +0.021	25 +0.075 +0.035	22.131 22.050					2215		2225						
SF-2□	25 -0.033	28 +0.021	28 +0.075 +0.035	25.131 25.050			6		2515	2520	2525	2530					
SF-2□	28 -0.033	32 +0.025	32 +0.085 +0.045	28.155 28.060	0.188 0.060	1.970 1.935				2820		2830					
SF-2□	30 -0.033	34 +0.025	34 +0.085 +0.045	30.155 30.060						3020	3025	3030		3040			
SF-2□	35 -0.039	39 +0.025	39 +0.085 +0.045	35.155 35.060	0.194 0.060					3520		3530	3535	3540			
SF-2□	40 -0.039	44 +0.025	44 +0.085 +0.045	40.155 40.060			8			4020		4030		4040		4050	
SF-2□	45 -0.039	50 +0.025	50 +0.085 +0.045	45.195 45.080	0.234 0.080	2.460 2.415				4520		4530		4540	4545	4550	
SF-2□	50 -0.039	55 +0.030	55 +0.100 +0.055	50.200 50.080	0.239 0.080							5030		5040		5050	5060
SF-2□	55 -0.046	60 +0.030	60 +0.100 +0.055	55.200 55.080	0.246 0.080							5530		5540		5550	5560
SF-2□	60 -0.046	65 +0.030	65 +0.100 +0.055	60.200 60.080								6030		6040		6050	6060

SF-2/2F/2W

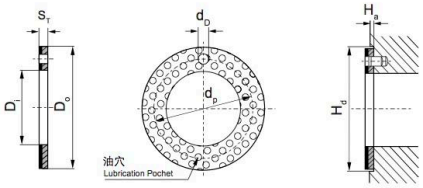
FMB Slide Bearing Specialist

Metric Standard bushes

单位unit:mm

型号规格 Designation	轴径 D_S h8	座孔 H7 D_H	外径公差 D_O	压装后内孔公差 $D_{1,a}$	配合间隙 C_D	壁厚 S_3	油孔 d_L	长度B $^{0}_{-0.40}$ 40	50	60	80	90	95	100	110	120
SF-2□	65 -0.046	70 +0.030	70 +0.100 +0.055	65.200 65.080	0.246 0.080	2.460 2.415	8	6540		6560						
SF-2□	70 -0.046	75 +0.030	75 +0.100 +0.055	70.200 70.080				7040	7050		7080					
SF-2□	75 -0.046	80 +0.030	80 +0.100 +0.055	75.200 75.080				7540		7560	7580					
SF-2□	80 -0.046	85 +0.035	85 +0.120 +0.070	80.265 80.100	0.313 0.100	2.450 2.385	9.5	8040		8060	8080					
SF-2□	85 -0.054	90 +0.035	90 +0.120 +0.070	85.265 85.100	0.321 0.100			8540		8560	8580					
SF-2□	90 -0.054	95 +0.035	95 +0.120 +0.070	90.265 90.100				9040		9060	9080	9090				
SF-2□	100 -0.054	105 +0.035	105 +0.120 +0.070	100.265 100.100					10050		10080		10095			
SF-2□	105 -0.054	110 +0.035	110 +0.120 +0.070	105.265 105.100						10560	10580		10595		105110	
SF-2□	110 -0.054	115 +0.035	115 +0.120 +0.070	110.265 110.110						11060	11080		11095		110110	
SF-2□	120 -0.054	125 +0.040	125 +0.170 +0.100	120.270 120.110	0.324 0.100					12060	12080				120110	
SF-2□	125 -0.063	130 +0.040	130 +0.170 +0.100	125.270 125.110						12560					125110	
SF-2□	130 -0.063	135 +0.040	135 +0.170 +0.100	130.270 130.110					13050	13060	13080			130100		
SF-2□	140 -0.063	145 +0.040	145 +0.170 +0.100	140.270 140.110					14050	14060	14080			140100		
SF-2□	150 -0.063	155 +0.040	155 +0.170 +0.100	150.270 150.110					15050	15060	15080			150100		
SF-2□	160 -0.063	165 +0.040	165 +0.170 +0.100	160.270 160.110			9.5		16050	16060	16080			160100		
SF-2□	170 -0.063	175 +0.040	175 +0.170 +0.100	170.270 170.110					17050		17080			170100		
SF-2□	180 -0.063	185 +0.046	185 +0.210 +0.130	180.270 180.110	0.339 0.110				18050	18060	18080			180100		
SF-2□	190 -0.072	195 +0.046	195 +0.210 +0.130	190.276 190.110					19050	19060	19080			190100		190120
SF-2□	200 -0.072	205 +0.046	205 +0.210 +0.130	200.276 200.110					20050	20060	20080			200100		200120
SF-2□	220 -0.072	225 +0.046	225 +0.210 +0.130	220.276 220.110			9.5		22050	22060	22080			220100		220120
SF-2□	240 -0.072	245 +0.046	245 +0.210 +0.130	240.276 240.110					24050	24060	24080			240100		240120
SF-2□	250 -0.072	255 +0.052	255 +0.260 +0.170	250.282 250.110	0.354 0.110				25050	25060	25080			250100		250120
SF-2□	260 -0.081	265 +0.052	265 +0.260 +0.170	260.282 260.110					26050	26060	26080			260100		260120
SF-2□	280 -0.081	285 +0.052	285 +0.260 +0.170	280.282 280.110					28050	28060	28080			280100		280120
SF-2□	300 -0.081	305 +0.052	305 +0.260 +0.170	300.282 300.110					30050	30060	30080			300100		300120

Metric Standard Washer

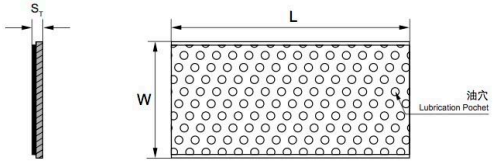


※标准垫片标注方式：Standard Washer Label Mode SF-2□W10

单位unit:mm

轴径 D_S	型号规格 Designation	垫片尺寸 Washer size D_I+0.25	D_O-0.25	S_T-0.05	d_p ± 0.125	安装尺寸 d_D $^{+0.4}_{+0.1}$	H_a ± 0.2	H_G+0.12
8	SF-2□ W10	10	20	1.5	15	1.5	1	20
10	SF-2□ W12	12	24		18			24
12	SF-2□ W14	14	26		20	2		26
14	SF-2□ W16	16	30		23			30
16	SF-2□ W18	18	32		25			32
18	SF-2□ W20	20	36		28	3		36
20	SF-2□ W22	22	38		30			38
22	SF-2□ W24	24	42		33			42
24	SF-2□ W26	26	44		35			44
26	SF-2□ W28	28	48		38	4		48
30	SF-2□ W32	32	54		43			54
36	SF-2□ W38	38	62		50			62
40	SF-2□ W42	42	66		54			66
46	SF-2□ W48	48	74	2	61		1.5	74
50	SF-2□ W52	52	78		65			78
60	SF-2□ W62	62	90		76			90

Metric Standard Strip



※标准滑板标注方式：Standard Strip Label Mode SF-2□P 010130

单位unit:mm

型号规格 Designation	长度(L) ± 1	宽度(W) ± 1	厚壁(S_a)-0.05
SF-2□P 010130	500	150	1.0
SF-2□P 015130	500	150	1.5
SF-2□P 020130	500	150	2.0
SF-2□P 025130	500	150	2.5