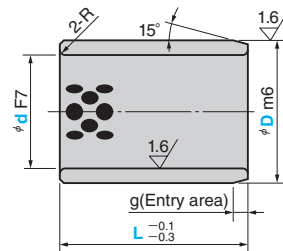


Guide Bushing

UNIVERSAL STRAIGHT TYPE

CAD
FILE

SOB



- Mating post tolerance
d8: General use (high load)
e7: General use (light load)
f7: High precision
- Recommended hole machining tolerance H7

● Sliding Direction



Material : Bronze with
Graphite
(SO#50 SP2)



Order

Catalog No. SOB
d 19 - D 26 - L 20

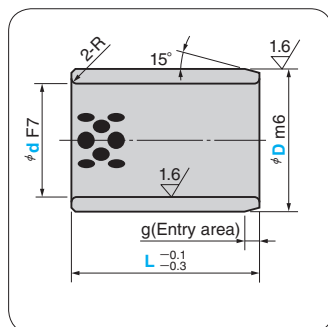
d F7	D m6	R	g	Applicable washer	Catalog No.	d	D	L
6	+0.022 +0.010	10	+0.015 +0.006			6	10	12
8		12		0.5		8	12	10
				1				15
10	+0.028 +0.013	14			SOBW10	10	14	10
				1				15
		15	+0.018 +0.007				15	20
				0.5				10
								12
12		18			SOBW12	12	18	15
				1				16
								19
								20
								25
								30
	+0.034 +0.016			0.5	2			10
13		19			SOBW13	13	19	12
				1				15
								16
								20
								25
			+0.021 +0.008	0.5				10
								12
14		20			SOBW14	14	20	15
				1				20
								25
								30

d F7	D m6	R	g	Applicable washer	Catalog No.	d	D	L
			0.5					10
								12
								15
15	21		1	SOBW15		15	21	16
								20
								25
								30
			0.5					10
								12
								15
								16
16	+0.034 +0.016	22		SOBW16		16	22	19
								20
								25
								30
								35
								40
17	23			—		17	23	15
								10
								12
								15
								16
18	24		1	SOBW18		18	24	20
								25
								30
								35
								40
19	26			—	SOB	19	26	15
								20
								10
								12
								15
								16
								19
								20
								25
								30
								35
								40
20			2			20		50
								10
								12
								15
								16
								20
								25
								30
								35
								40
								70
								12
22	32			—		22	32	15
								20
								25
								12
								15
25	33		1	2	SOBW25	25	33	16
								20
								25
			2					25

Guide Bushing

UNIVERSAL STRAIGHT TYPE

CAD
FILE



Order

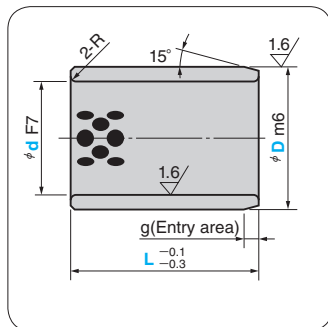
Catalog No. **SOB** d **35** - D **45** - L **25**

d F7	D m6	R	g	Applicable washer	Catalog No.	d	D	L
								30
								35
	33	2		SOBW25			33	40
								50
								60
								12
25		1				25		15
								16
	35			—			35	20
								25
		2						30
								35
								40
								50
		1						20
28		2		SOBW28		28	38	25
								30
								40
								12
								15
	38	1	2					20
								25
								30
								35
		2		SOBW30			38	40
								50
30						30		60
								12
		1						15
								20
								25
								30
	40			—			40	35
								40
		2						50
								60
31.5				—		31.5	40	30
								40

d F7	D m6	R	g	Applicable washer	Catalog No.	d	D	L
32	42		1	—		32	42	15
			2					20
			1					30
								40
								20
								25
	44		2	SOBW35			44	30
								35
								40
								50
35			1.5			35		60
			1					15
								20
								25
	45			—			45	30
								35
			2					40
								50
38	48			—		38	48	60
			1					30
								40
								15
								20
								25
								30
	50		2	SOBW40			50	35
								40
40			2					50
								60
								70
								80
			1					15
								25
								30
								35
								40
								50
	55			—			55	60
								30
								35
								40
								50
								60
								30
								35
								40
								50
								60
								30
								35
								40
								50
								60
								30
								35
								40
								50
								60
								70
								80
45	56		2	SOBW45		45	56	20
								30
								35
								40
								50
								60
								30
								35
								40
								50
								60
								70
								80
	60			—			60	20
								30
								40
								50
								60
								70
								80
50			1	SOBW50		50	60	20
			2					30

Guide Bushing

UNIVERSAL STRAIGHT TYPE



Order

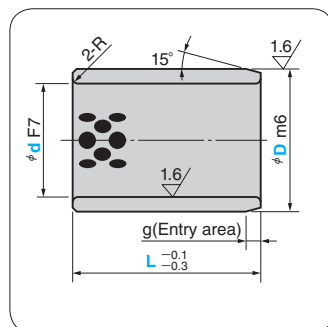
Catalog No. **SOB** **50** - **65** - **80**

d F7		D m6		R	g	Applicable washer	Catalog No.	d	D	L					
		60		2	2	SOBW50			60	35					
											40				
					3					3	50				
										60					
										70					
										80					
				2	2					30					
										35					
										40					
50	+0.050 +0.025	62								SOBW50		50	62	50	
					3	3	60								
							70								
						80									
				2	2	30									
						40									
		65				SOB		65						50	
															60
					3									3	70
														80	
			+0.030 +0.011							100					
		70		2	2					SOBW55		55	70	30	
55															35
															40
				3	3									50	
														60	
						70									
		74		2	2	SOBW60		60						30	
															35
															40
	+0.060 +0.030													50	
				3	3					60					
										70					
										80					
60										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					
		75								SOBW60		60		30	
					2									2	35
							40								
						50									
				3	3	60									
						70									
						80									
						100									
		75				SOBW60		60						30	
					2									2	35
											40				
										50					
				3	3					60					
										70					
										80					
										100					

Guide Bushing

UNIVERSAL STRAIGHT TYPE

CAD
FILE



Order

Catalog No. **SOB** **120** - **140** - **100**

d F7	D m6	R	g	Applicable washer	Catalog No.	d	D	L
100	120	3	3	SOBW100	100	120	115	100
							115	40
							115	50
							115	60
							115	70
							115	80
							115	90
							115	100
							115	120
							115	140
110	130	3	3	—	110	130	125	50
							125	70
							125	80
							125	100
							125	120
							125	140
							125	160
							125	180
							125	200
							125	220
120	140	3	3	SOBW120	120	140	135	80
							135	100
							135	120
							135	140
							135	160
							135	180
							135	200
							135	220
							135	240
							135	260
125	145	3	3	—	125	145	140	100
							140	120
							140	140
							140	160
							140	180
							140	200
							140	220
							140	240
							140	260
							140	280
130	150	3	3	—	130	150	145	100
							145	120
							145	140
							145	160
							145	180
							145	200
							145	220
							145	240
							145	260
							145	280
140	160	3	3	—	140	160	150	100
							150	120
							150	140
							150	160
							150	180
							150	200
							150	220
							150	240
							150	260
							150	280
150	170	3	3	—	150	170	155	100
							155	120
							155	140
							155	160
							155	180
							155	200
							155	220
							155	240
							155	260
							155	280
160	180	3	3	—	160	180	160	100
							160	120
							160	140
							160	160
							160	180
							160	200
							160	220
							160	240
							160	260
							160	280
170	190	3	3	—	170	190	165	100
							165	120
							165	140
							165	160
							165	180
							165	200
							165	220
							165	240
							165	260
							165	280
180	200	3	3	—	180	200	170	100
							170	120
							170	140
							170	160
							170	180
							170	200
							170	220
							170	240
							170	260
							170	280
190	210	3	3	—	190	210	175	100
							175	120
							175	140
							175	160
							175	180
							175	200
							175	220
							175	240
							175	260
							175	280
200	230	3	3	—	200	230	180	100
							180	120
							180	140
							180	160
							180	180
							180	200
							180	220
							180	240
							180	260
							180	280

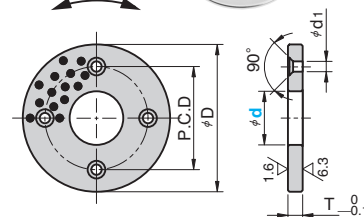
Washer

WASHER

CAD
FILE

SOBW

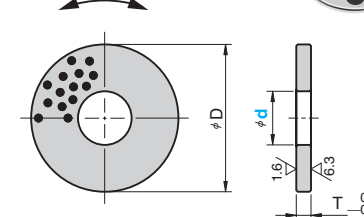
Sliding direction



SOBWN

(Type Without Bolt Holes)

Sliding direction



Material : Bronze with Graphite
(SO#50 SP2)



Order

Catalog No. **SOBW** **10**

d(Actual size)	D	T	Bolt mounting hole			Catalog No.	d(nominal)
			P.C.D	Quantity	Flat head screw		
10.2	30		20				10
12.2	40		28				12
13.2							13
14.2		3			M3	3.5	14
15.2							15
16.2							16
18.2	50		35				18
20.2				2			20
25.2	55		40				25
30.2	60	5	45		M5	6	30
35.2	70		50				35
40.2	80		60				40
45.3	90	7	67.5				45
50.3	100		75		M6	7	50
55.3	110		85				55
60.3	120	8	90				60
65.3	125		95				