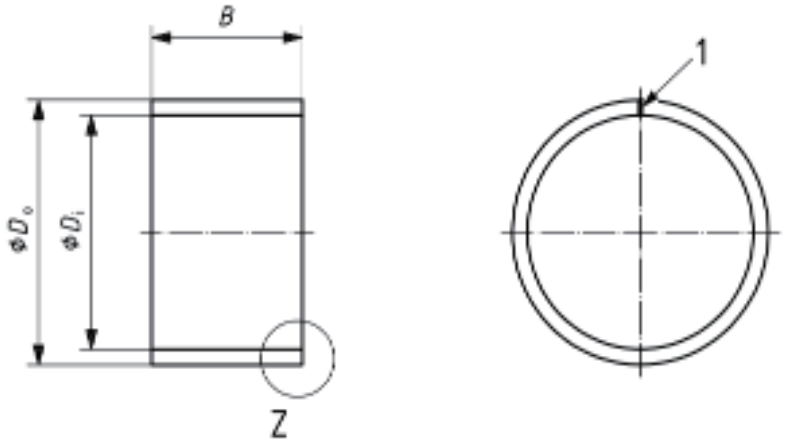
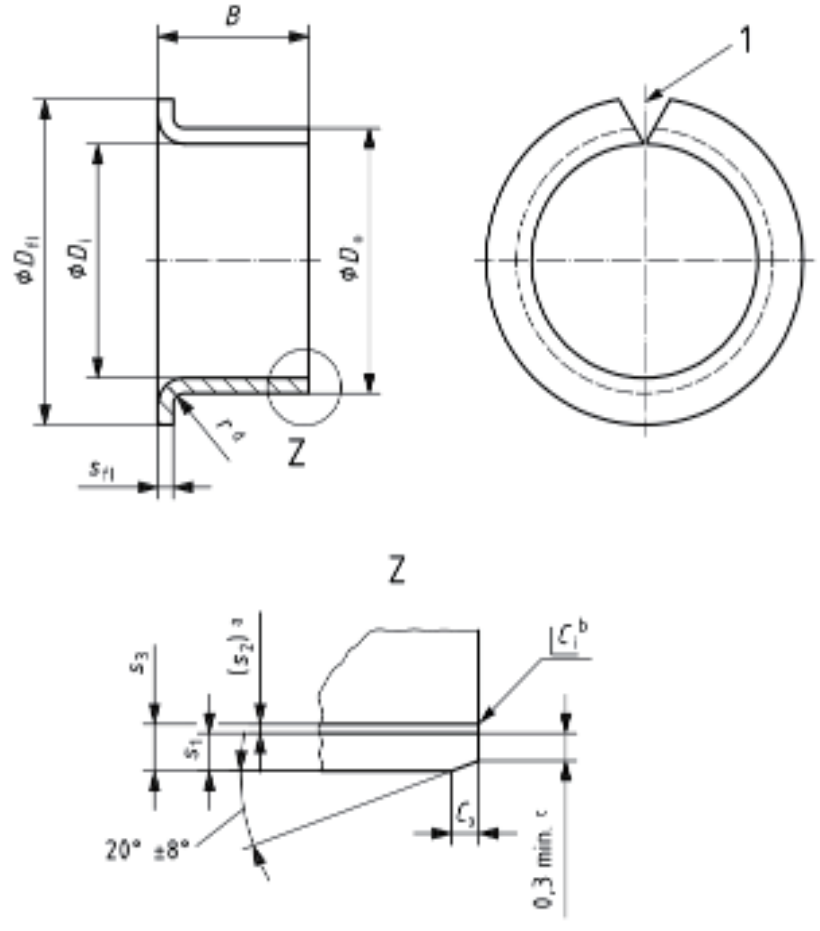
Dimensions in millimetres



Type C cylindrical bush



Type F flanged bush

Key

1 split

a Thickness of the bearing material layer: only valid as a basis for calculation in accordance with ISO 3547-2.

b C_1 may be a chamfer or break edge, in accordance with ISO 13715.

c 0,2 mm min. for nominal wall thickness 0,5 mm.

d $r_{max} = s_3$

Figure 1 — Cylindrical and flanged bush

Table 3 — Preferred nominal dimensions and limit deviations for wrapped flanged bushes

Dimensions in millimetres

D_i	D_o	s_3	D_{fl} nominal	D_{fl} limit deviation	S_{fl}	r_{max}	B 4	5,5	7	7,5	8	9	9,5	11,5	12	16	16,5	17	21,5	22	26
6	8	1	12	$^{+0,5}_{-0,8}$	1,05 0,80	1	a				a										
8	10	1	15			1		a		a			a								
10	12	1	18			1			a			a			a			b			
12	14	1	20			1			a			a			a			b			
14	16	1	22			1									a			b			
15	17	1	23			1						a			a			b			
16	18	1	24			1									a			b			
18	20	1	26			1									a			b		b	
20	23	1,5	30	$^{+1}_{-0,8}$	1,6	1,5								a			a		b		
25	28	1,5	35		1,3	1,5								a			a		b		
30	34	2	42		2,1 1,8	2										a					b
35	39	2	47	$^{+2}_{-0,8}$		2										a					b
40	44	2	52			2										a					b
45	50	2,5	58		2,6 2,3	2,5										a					b

Limit deviations for B:

a ± 0,25

b ± 0,5

Table 4 — Outside, C_o, and inside, C_i, chamfers

Dimensions in millimetres

Wall thickness s_3 Nominal dimension	Chamfer C_o machined	C_o rolled	C_i
0,5	0,2 ± 0,1		$^{-0,05}_{-0,30}$
0,75	0,5 ± 0,3	0,5 ± 0,3	$^{-0,1}_{-0,4}$
1	0,6 ± 0,4	0,6 ± 0,4	$^{-0,1}_{-0,6}$
1,5	0,6 ± 0,4	0,6 ± 0,4	$^{-0,1}_{-0,7}$
2	1,2 ± 0,4	1,0 ± 0,4	$^{-0,1}_{-0,7}$
2,5	1,8 ± 0,6	1,2 ± 0,4	$^{-0,2}_{-1,0}$

For bushes which have to be machined to size in the bush bore, C_i should be made correspondingly bigger.

C_o may be machined or rolled at the option of the manufacturer.

C_i may be a chamfer or break edge in accordance with ISO 13715.

Table 2 (*continued*)

D_i	D_o	s_3	B									
			20	25	30	40	50	60	70	80	100	115
90	95	2,5				b		b			c	
95	100	2,5						b			c	
100	105	2,5					b	b			c	c
105	110	2,5						b			c	c
110	115	2,5						b			c	c
115	120	2,5					b	b	b		c	
120	125	2,5					b	b			c	
125	130	2,5						b			c	
130	135	2,5						b			c	
135	140	2,5						b		b	c	
140	145	2,5						b			c	
150	155	2,5						b		b	c	
160	165	2,5						b		b	c	
170	175	2,5									c	
180	185	2,5									c	
200	205	2,5									c	
220	225	2,5									c	
250	255	2,5									c	
300	305	2,5									c	

Limit deviations for B:

a ± 0,25

b ± 0,5

c ± 0,75

Bush widths B outside the tolerance ranges a, b or c should be agreed between the manufacturer and user and stated after the nominal sizes in the standard designation.

If it is necessary to use non-standard widths B, then these should be arranged to have an end figure of 2, 5 and 8 up to D_i = 50 mm, and an end figure of 5 over D_i = 50 mm. Check bush width B in accordance with ISO 12301.

Table 2 (*continued*)

s_3 = 1,5 mm										
D_i	D_o	s_3	B							
			8	10	12	15	20	25	30	40
8	11	1,5		b	b					
10	13	1,5		a	a	a	a			
12	15	1,5		b	b	b				
13	16	1,5		b	b	b	b			
14	17	1,5		b	b	b	b			
15	18	1,5		a	a	a	a	a		
16	19	1,5		a	a	a	b	a		
18	21	1,5				a	b	b		
20	23	1,5			a	a	b	b	b	
22	25	1,5				a	b	b	b	
24	27	1,5				a	b	b	b	
25	28	1,5				a	b	b	b	
28	31	1,5					b	b	b	

s_3 = 2 mm										
D_i	D_o	s_3	B							
			15	20	25	30	40	50	60	70	80
28	32	2,0	a	a	a	b		b			
30	34	2,0	a	a	a	b	b				
32	36	2,0		a		b	b				
35	39	2,0		a		b	b	b			
37	40	2,0		a		b	b				
38	42	2,0		a		b	b				
40	44	2,0		a		b	b	b			

s_3 = 2,5 mm											
D_i	D_o	s_3	B								
			20	25	30	40	50	60	70	80	100	115
45	50	2,5	a		a	b	b					
50	55	2,5	a	a	a	b	b	b				
55	60	2,5	a		a	b		b				
60	65	2,5	a		a	b	b		c			
65	70	2,5			a		b		c			
70	75	2,5			a		b		c			
75	80	2,5				b		b		c		
80	85	2,5				b		b		c	c	
85	90	2,5				b		b		c	c	

Table 2 — Preferred nominal dimensions for inside diameter, D_i, outside diameter, D_o, wall thickness, s_3, and bush width, B

Dimensions in millimetres

$s_3 = 0{,}5$									
D_i	D_o	s_3	B						
			3	4	5	6	8	10	12
2	3	0,5	a		a				
3	4	0,5	a		a	a			
4	5	0,5	a	a		a			
5	6	0,5			a		a	a	
6	7	0,5		a		a	a	a	
8	9	0,5				a	a	a	a
10	11	0,5					a	a	a

$s_3 = 0{,}75$								
D_i	D_o	s_3	B					
			3	4	5	6	7	8	10
2	3,5	0,75	a		a				
3	4,5	0,75	a		a	a			
4	5,5	0,75	a	a		a			a

$s_3 = 1{,}0$													
D_i	D_o	s_3	B										
			3	4	5	6	7	8	10	12	15	20	25
3	5	1,0	a	a	a	a							
4	6	1,0	a	a		a							
6	8	1,0			a	a	a	a	a				
7	9	1,0			a		a		a	a			
8	10	1,0			a	a	a	a	a	a			
9	11	1,0							a				
10	12	1,0				a	a	a	a	a	b	b	
12	14	1,0				a	a	a	a	a	b	b	b
13	15	1,0							a		b	b	
14	16	1,0							a	a	b	b	b
15	17	1,0							a	a	b	b	b
16	18	1,0							a	a	b	b	b
17	19	1,0									b	b	
18	20	1,0							a		b	b	b