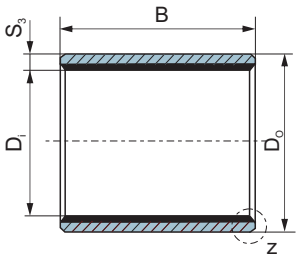
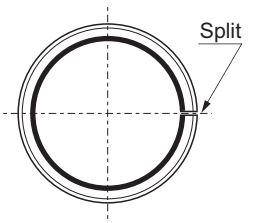
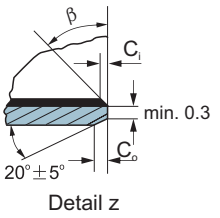
CSB-40 Metric Cylindrical Bushes







ID and OD chamfers

S_3	C_O	C_i	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°

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°

Unit:mm

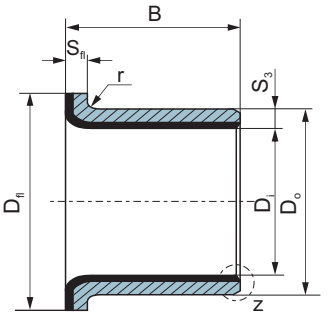
Shaft D_S	Housing H7 D_H	OD tolerance D_O	ID after fixed $D_{i,a}$	Clearance C_D	Wall thickness S_3	B $^{0}_{-0.40}$ ($d \leq \phi 30$ B -0.3; $d > \phi 30$ B -0.4)									
						6	8	10	12	15	20	25	30	40	50
6 $^{-0.010}_{-0.022}$	8 $^{+0.015}$	8 $^{+0.055}_{+0.025}$	6.055 5.990	0.077 0.000	1.005 0.980	CSB-40 0606	CSB-40 0608	CSB-40 0610							
8 $^{-0.013}_{-0.028}$	10 $^{+0.015}$	10 $^{+0.055}_{+0.025}$	8.055 7.990	0.083 0.003		CSB-40 0806	CSB-40 0808	CSB-40 0810	CSB-40 0812	CSB-40 0815					
10 $^{-0.013}_{-0.028}$	12 $^{+0.018}$	12 $^{+0.065}_{+0.030}$	10.058 9.990	0.086 0.003		CSB-40 1006	CSB-40 1008	CSB-40 1010	CSB-40 1012	CSB-40 1015	CSB-40 1020				
12 $^{-0.016}_{-0.034}$	14 $^{+0.018}$	14 $^{+0.065}_{+0.030}$	12.058 11.990	0.092 0.006		CSB-40 1206	CSB-40 1208	CSB-40 1210	CSB-40 1212	CSB-40 1215	CSB-40 1220	CSB-40 1225			
13 $^{-0.016}_{-0.034}$	15 $^{+0.018}$	15 $^{+0.065}_{+0.030}$	13.058 12.990					CSB-40 1310			CSB-40 1320				
14 $^{-0.016}_{-0.034}$	16 $^{+0.018}$	16 $^{+0.065}_{+0.030}$	14.058 13.990					CSB-40 1410	CSB-40 1412	CSB-40 1415	CSB-40 1420	CSB-40 1425			
15 $^{-0.016}_{-0.034}$	17 $^{+0.018}$	17 $^{+0.065}_{+0.030}$	15.058 14.990					CSB-40 1510	CSB-40 1512	CSB-40 1515	CSB-40 1520	CSB-40 1525			
16 $^{-0.016}_{-0.034}$	18 $^{+0.018}$	18 $^{+0.065}_{+0.030}$	16.058 15.990					CSB-40 1610	CSB-40 1612	CSB-40 1615	CSB-40 1620	CSB-40 1625			
17 $^{-0.016}_{-0.034}$	19 $^{+0.021}$	19 $^{+0.075}_{+0.035}$	17.061 16.990	0.095 0.006				CSB-40 1710	CSB-40 1712		CSB-40 1720				
18 $^{-0.016}_{-0.034}$	20 $^{+0.021}$	20 $^{+0.075}_{+0.035}$	18.061 17.990					CSB-40 1810	CSB-40 1812	CSB-40 1815	CSB-40 1820	CSB-40 1825			
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			CSB-40 2010	CSB-40 2012	CSB-40 2015	CSB-40 2020	CSB-40 2025	CSB-40 2030		
22 $^{-0.020}_{-0.041}$	25 $^{+0.021}$	25 $^{+0.075}_{+0.035}$	22.071 21.990					CSB-40 2210	CSB-40 2212	CSB-40 2215	CSB-40 2220	CSB-40 2225	CSB-40 2230		
24 $^{-0.020}_{-0.041}$	27 $^{+0.021}$	27 $^{+0.075}_{+0.035}$	24.071 23.990							CSB-40 2415	CSB-40 2420	CSB-40 2425	CSB-40 2430		
25 $^{-0.020}_{-0.041}$	28 $^{+0.021}$	28 $^{+0.075}_{+0.035}$	25.071 24.990					CSB-40 2510	CSB-40 2512	CSB-40 2515	CSB-40 2520	CSB-40 2525	CSB-40 2530	CSB-40 2540	CSB-40 2550
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					CSB-40 2815	CSB-40 2820	CSB-40 2825	CSB-40 2830	CSB-40 2840	
30 $^{-0.020}_{-0.041}$	34 $^{+0.025}$	34 $^{+0.085}_{+0.045}$	30.085 29.990						CSB-40 3012	CSB-40 3015	CSB-40 3020	CSB-40 3025	CSB-40 3030	CSB-40 3040	
32 $^{-0.025}_{-0.050}$	36 $^{+0.025}$	36 $^{+0.085}_{+0.045}$	32.085 31.990	0.135 0.015							CSB-40 3220		CSB-40 3230	CSB-40 3240	
35 $^{-0.025}_{-0.050}$	39 $^{+0.025}$	39 $^{+0.085}_{+0.045}$	35.085 34.990						CSB-40 3512	CSB-40 3515	CSB-40 3520	CSB-40 3525	CSB-40 3530	CSB-40 3540	CSB-40 3550
38 $^{-0.025}_{-0.050}$	42 $^{+0.025}$	42 $^{+0.085}_{+0.045}$	38.085 37.990							CSB-40 3815			CSB-40 3830	CSB-40 3840	
40 $^{-0.025}_{-0.050}$	44 $^{+0.025}$	44 $^{+0.085}_{+0.045}$	40.085 39.990						CSB-40 4012		CSB-40 4020	CSB-40 4025	CSB-40 4030	CSB-40 4040	CSB-40 4050

CSB-40 Metric Cylindrical Bushes

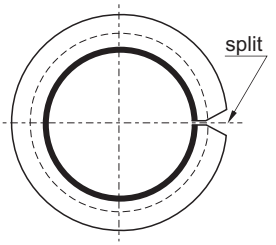
Unit:mm

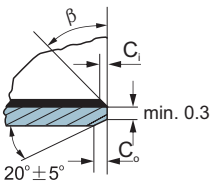
Shaft D_S	Housing H7 D_H	OD tolerance D_O	ID after fixed $D_{i,a}$	Clearance C_D	Wall thickness S_3	B $^{0}_{-0.40}$									
						20	25	30	40	50	60	70	80	100	115
45 $^{-0.050}_{-0.025}$	50 $^{+0.025}$	50 $^{+0.085}_{+0.045}$	45.105 44.990	0.155 0.015	2.505 2.460	CSB-40 4520	CSB-40 4525	CSB-40 4530	CSB-40 4540	CSB-40 4550					
50 $^{-0.050}_{-0.025}$	55 $^{+0.030}$	55 $^{+0.100}_{+0.055}$	50.110 49.990	0.160 0.015		CSB-40 5020		CSB-40 5030	CSB-40 5040	CSB-40 5050	CSB-40 5060				
55 $^{-0.060}_{-0.030}$	60 $^{+0.030}$	60 $^{+0.100}_{+0.055}$	55.110 54.990	0.170 0.020				CSB-40 5530	CSB-40 5540	CSB-40 5550	CSB-40 5560				
60 $^{-0.060}_{-0.030}$	65 $^{+0.030}$	65 $^{+0.100}_{+0.055}$	60.110 59.990					CSB-40 6030	CSB-40 6040	CSB-40 6050	CSB-40 6060	CSB-40 6070			
65 $^{-0.060}_{-0.030}$	70 $^{+0.030}$	70 $^{+0.100}_{+0.055}$	65.110 64.990					CSB-40 6530	CSB-40 6540	CSB-40 6550	CSB-40 6560	CSB-40 6570			
70 $^{-0.060}_{-0.030}$	75 $^{+0.030}$	75 $^{+0.100}_{+0.055}$	70.110 69.990						CSB-40 7040	CSB-40 7050	CSB-40 7060	CSB-40 7070	CSB-40 7080		
75 $^{-0.060}_{-0.030}$	80 $^{+0.030}$	80 $^{+0.100}_{+0.055}$	75.110 74.990					CSB-40 7530	CSB-40 7540	CSB-40 7550	CSB-40 7560	CSB-40 7570	CSB-40 7580		
80 $_{-0.046}$	85 $^{+0.035}$	85 $^{+0.120}_{+0.070}$	80.155 80.020	0.201 0.020	2.490 2.440				CSB-40 8040	CSB-40 8050	CSB-40 8060	CSB-40 8070	CSB-40 8080	CSB-40 80100	
85 $_{-0.054}$	90 $^{+0.035}$	90 $^{+0.120}_{+0.070}$	85.155 85.020	0.209 0.020					CSB-40 8540		CSB-40 8560		CSB-40 8580	CSB-40 85100	
90 $_{-0.054}$	95 $^{+0.035}$	95 $^{+0.120}_{+0.070}$	90.155 90.020						CSB-40 9040	CSB-40 9050	CSB-40 9060		CSB-40 9080	CSB-40 90100	
95 $_{-0.054}$	100 $^{+0.035}$	100 $^{+0.120}_{+0.070}$	95.155 95.020							CSB-40 9550	CSB-40 9560		CSB-40 9580	CSB-40 95100	
100 $_{-0.054}$	105 $^{+0.035}$	105 $^{+0.120}_{+0.070}$	100.155 100.020							CSB-40 10050	CSB-40 10060		CSB-40 10080		CSB-40 100115
105 $_{-0.054}$	110 $^{+0.035}$	110 $^{+0.120}_{+0.070}$	105.155 105.020								CSB-40 10560		CSB-40 10580		CSB-40 105115
110 $_{-0.054}$	115 $^{+0.035}$	115 $^{+0.120}_{+0.070}$	110.155 110.020								CSB-40 11060		CSB-40 11080		CSB-40 110115
120 $_{-0.054}$	125 $^{+0.040}$	125 $^{+0.170}_{+0.100}$	120.210 120.070	0.264 0.070	2.465 2.415						CSB-40 12060		CSB-40 12080	CSB-40 120100	
125 $_{-0.063}$	130 $^{+0.040}$	130 $^{+0.170}_{+0.100}$	125.210 125.070	0.273 0.070							CSB-40 12560			CSB-40 125100	CSB-40 125115
130 $_{-0.063}$	135 $^{+0.040}$	135 $^{+0.170}_{+0.100}$	130.210 130.070								CSB-40 13060		CSB-40 13080	CSB-40 130100	
140 $_{-0.063}$	145 $^{+0.040}$	145 $^{+0.170}_{+0.100}$	140.210 140.070								CSB-40 14060		CSB-40 14080	CSB-40 140100	
150 $_{-0.063}$	155 $^{+0.040}$	155 $^{+0.170}_{+0.100}$	150.210 150.070								CSB-40 15060		CSB-40 15080	CSB-40 150100	
160 $_{-0.063}$	165 $^{+0.040}$	165 $^{+0.170}_{+0.100}$	160.210 160.070								CSB-40 16060		CSB-40 16080	CSB-40 160100	CSB-40 160115
180 $_{-0.063}$	185 $^{+0.046}$	185 $^{+0.210}_{+0.130}$	180.216 180.070	0.279 0.070	2.465 2.415								CSB-40 18080	CSB-40 180100	
190 $_{-0.072}$	195 $^{+0.046}$	195 $^{+0.210}_{+0.130}$	190.216 190.070	0.288 0.070									CSB-40 19080	CSB-40 190100	
200 $_{-0.072}$	205 $^{+0.046}$	205 $^{+0.210}_{+0.130}$	200.216 200.070								CSB-40 20060		CSB-40 20080	CSB-40 200100	
220 $_{-0.072}$	225 $^{+0.046}$	225 $^{+0.210}_{+0.130}$	220.216 220.070										CSB-40 22080	CSB-40 220100	
250 $_{-0.072}$	255 $^{+0.052}$	255 $^{+0.260}_{+0.170}$	250.222 250.070	0.294 0.070	2.465 2.415								CSB-40 25080	CSB-40 250100	
260 $_{-0.081}$	265 $^{+0.052}$	265 $^{+0.260}_{+0.170}$	260.222 260.070	0.303 0.070									CSB-40 26080	CSB-40 260100	
280 $_{-0.081}$	285 $^{+0.052}$	285 $^{+0.260}_{+0.170}$	280.222 280.070										CSB-40 28080	CSB-40 280100	
300 $_{-0.081}$	305 $^{+0.052}$	305 $^{+0.260}_{+0.170}$	300.222 300.070										CSB-40 30080	CSB-40 300100	

CSB-40 Metric Flange Bushes



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





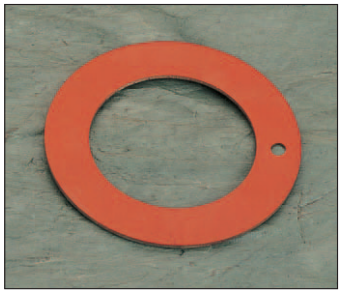
Detail z

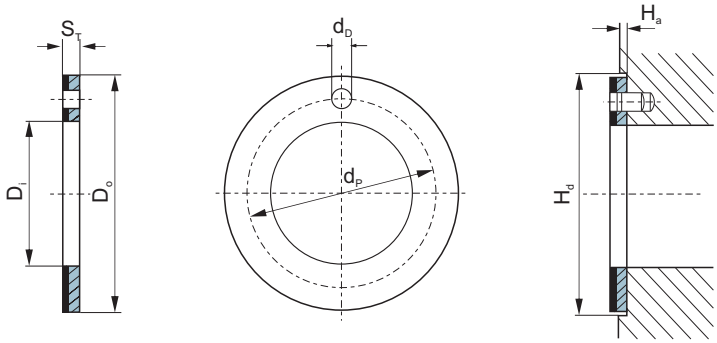
Unit:mm

Shaft D_s	Housing H7 D_H	OD tolerance D_O	ID after fixed $D_{i,a}$	Clearance C_D	Designation	Wall thickness S_3	Dimension				
							D_i	D_o	D_{fl}± 0.5	B±0.25	S_{fl}-0.2
6 -0.013 -0.028	8 +0.015	8 +0.055 +0.025	6.055 5.990	0.077 0.000	CSB-40F06040	1.005 0.980	6	8	12	4	1
					CSB-40F06070					7	
8 -0.013 -0.028	10 +0.015	10 +0.055 +0.025	8.055 7.990	0.083 0.003	CSB-40F08055		8	10	15	5.5	
					CSB-40F08075					7.5	
10 -0.016 -0.034	12 +0.018	12 +0.055 +0.025	10.058 9.990	0.086 0.003	CSB-40F10070		10	12	18	7	
					CSB-40F10090					9	
					CSB-40F10120					12	
12 -0.016 -0.034	14 +0.018	14 +0.065 +0.030	12.058 11.990	0.092 0.006	CSB-40F12070		12	14	20	7	
					CSB-40F12090					9	
					CSB-40F12120					12	
14 -0.016 -0.034	16 +0.018	16 +0.065 +0.030	14.058 13.990		CSB-40F14120		14	16	22	12	
					CSB-40F14170					17	
15 -0.016 -0.034	17 +0.018	17 +0.065 +0.030	15.058 14.990		CSB-40F15090		15	17	23	9	
					CSB-40F15120					12	
					CSB-40F15170					17	
16 -0.016 -0.034	18 +0.018	18 +0.065 +0.030	16.058 15.990		CSB-40F16120		16	18	24	12	
					CSB-40F16170					17	
18 -0.016 -0.034	20 +0.021	20 +0.075 +0.035	18.061 17.990	0.095 0.006	CSB-40F18120		18	20	26	12	
					CSB-40F18170					17	
					CSB-40F18200					20	
20 -0.020 -0.041	23 +0.021	23 +0.075 +0.035	20.071 19.990	0.112 0.010	CSB-40F20115	1.505 1.475	20	23	30	11.5	1.5
					CSB-40F20165					16.5	
					CSB-40F20215					21.5	
22 -0.020 -0.041	25 +0.021	25 +0.075 +0.035	22.071 21.990		CSB-40F22150		22	25	32	15	
					CSB-40F22200					20	
25 -0.020 -0.041	28 +0.021	28 +0.075 +0.035	25.071 24.990		CSB-40F25115		25	28	35	11.5	
					CSB-40F25165					16.5	
					CSB-40F25215					21.5	
30 -0.025 -0.050	34 +0.025	34 +0.075 +0.035	30.085 29.990	0.126 0.010	CSB-40F30160	2.005 1.970	30	34	42	16	2
					CSB-40F30260					26	
35 -0.025 -0.050	39 +0.025	39 +0.085 +0.045	35.085 34.990	0.135 0.015	CSB-40F35160		35	39	47	16	
					CSB-40F35260					26	
40 -0.025 -0.050	44 +0.025	44 +0.085 +0.045	40.085 39.990		CSB-40F40260		40	44	53	26	
					CSB-40F40400					40	

CSB-40 Metric Thrust Washer and Strip

Metric thrust washer

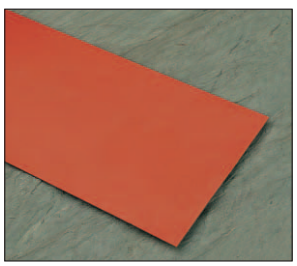


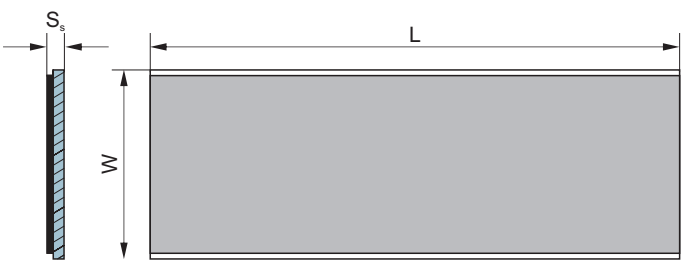


Unit:mm

Shaft D_S	Designation	Washer dimension				Installation size		H_d+0.12
		D_i +0.25	D_o -0.25	S_T -0.05	d_P±0.125	$d_{D}^{+0.4}_{+0.1}$	H_a±0.2	
8	CSB-40WC10	10	20	1.5	15	1.5	1	20
10	CSB-40WC12	12	24		18			24
12	CSB-40WC14	14	26		20	2		26
14	CSB-40WC16	16	30		23			30
16	CSB-40WC18	18	32		25			32
18	CSB-40WC20	20	36		28	3		36
20	CSB-40WC22	22	38		30			38
22	CSB-40WC24	24	42		33			42
24	CSB-40WC26	26	44		35			44
26	CSB-40WC28	28	48		38	4		48
30	CSB-40WC32	32	54		43			54
36	CSB-40WC38	38	62		50			62
40	CSB-40WC42	42	66		54			66
46	CSB-40WC48	48	74	2	61		1.5	74
50	CSB-40WC52	52	78		65			78
60	CSB-40WC62	62	90		76			90

Metric standard strip





Unit:mm

Type	Length±1	Width±1	Thickness -0.05
CSB-40SP	500	150	1.0
CSB-40SP	500	150	1.5
CSB-40SP	500	150	2.0
CSB-40SP	500	150	2.5