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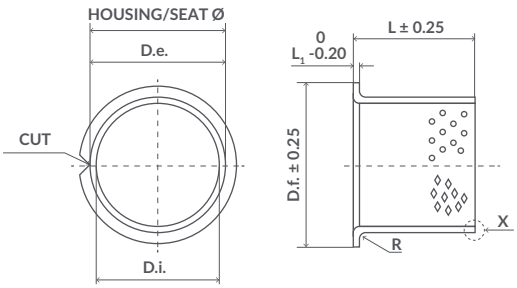
SLIDING BEARINGS DIVISION
HYDRAULIC, ENERGY AND METAL INDUSTRY

SB-30 TYPE F - DIMENSIONS AND TOLERANCE
applicable for materials: SB-30, SB-31

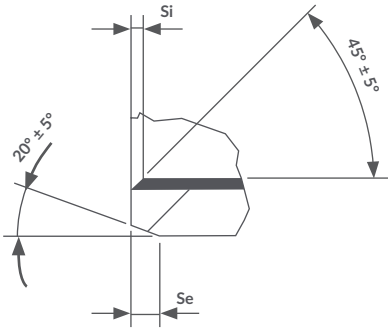
Operational control table for the production and verification of cylindrical bearings according to ISO 3547-2 test C



LEGEND:
MEASURE: Inside and outside bearing diameters
INSIDE Ø: Tolerance range of the inside Ø after the assembly in the seat (mm)
HOUSING/SEAT Ø: Housing/seat tolerance (mm)
BEARING THICKNESS: Thickness tolerance of the finished bearing (mm)
CUT: Maximum opening of the bearing flaps (carbon steel and other materials) (mm)
Ø SHAFT TOL. f7: Correct shaft size to use with the bearing
L: Bearing length - **L_1**: Bush edge thickness
R: Radius under flange

CHAMFERS

THICKNESS	Se (OUTSIDE Ø - OD)	Si (INSIDE Ø - ID)
0.70 mm	0.50 ± 0.30mm	0.10 - 0.40 mm
1.00 mm	0.60 ± 0.40mm	0.10 - 0.50 mm
1.50 mm	0.60 ± 0.40mm	0.10 - 0.60 mm
2.00 mm	1.20 ± 0.40mm	0.10 - 0.70 mm
2.50 mm	1.80 ± 0.60mm	0.10 – 1.00 mm



MEASURE		D.f.	L	THICKNESS	Ø D.i.	HOUSING/ SEAT Ø (H7)	L_1	R	Ø SHAFT (f7)	Si	Se
D.i.	D.e.	±0,25	±0,25	Min. - Max.	Min. - Max.	Min. - Max.	0 / -0.20	0 / -0.20	Min. - Max.	(mm)	(mm)
25	28	35	15 25	1,474 - 1,500	25,000 - 25,052	28,000 - 28,021	1,30 / 1,55	1,20 / 1,50	24,959 - 24,980	0,80	0,40
30	34	45	20 30	1,969 - 2,000	30,000 - 30,062	34,000 - 34,025	1,80 / 2,05	1,70 / 2,00	29,959 - 29,980	1,00	0,60
35	39	50	20 35	1,969 - 2,000	35,000 - 35,062	39,000 - 39,025	1,80 / 2,05	1,70 / 2,00	34,959 - 34,980	1,00	0,60
40	44	55	25 40	1,969 - 2,000	40,000 - 40,062	44,000 - 44,025	1,80 / 2,05	1,70 / 2,00	39,950 - 39,975	1,00	0,60
45	50	60	30 45	2,463 - 2,500	45,000 - 45,074	50,000 - 50,025	2,30 / 2,55	2,20 / 2,50	44,950 - 44,975	1,20	0,80
50	55	65	30 50	2,463 - 2,500	50,000 - 50,074	55,000 - 55,030	2,30 / 2,55	2,20 / 2,50	49,950 - 49,975	1,20	0,80
55	60	70	30 50	2,463 - 2,500	55,000 - 55,074	60,000 - 60,030	2,30 / 2,55	2,20 / 2,50	54,940 - 54,970	1,20	0,80
60	65	75	30 60	2,463 - 2,500	60,000 - 60,074	65,000 - 65,030	2,30 / 2,55	2,20 / 2,50	59,940 - 59,970	1,20	0,80

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SB-30 TYPE F DIMENSIONS AND TOLERANCE

applicable for materials: SB-30, SB-31

MEASURE	D.f.	L	THICKNESS	Ø D.i.	HOUSING/ SEAT Ø (H7)	L_1	R	Ø SHAFT (f7)	Si	Se
D.i. D.e.	±0,25	±0,25	Min. - Max.	Min. - Max.	Min. - Max.	0 / -0.20	0 / -0.20	Min. - Max.	(mm)	(mm)
65 - 70	80	30 / 60	2,463 - 2,500	65,000 - 65,074	70,000 - 70,030	2,30 / 2,55	2,20 / 2,50	64,940 - 64,970	1,20	0,80
70 - 75	85	40 / 70	2,463 - 2,500	70,000 - 70,074	75,000 - 75,030	2,30 / 2,55	2,20 / 2,50	69,940 - 69,970	1,20	0,80
75 - 80	90	40 / 70	2,463 - 2,500	75,000 - 75,074	80,000 - 80,030	2,30 / 2,55	2,20 / 2,50	74,940 - 74,970	1,20	0,80
80 - 85	100	40 / 80	2,463 - 2,500	80,000 - 80,074	85,000 - 85,035	2,30 / 2,55	2,20 / 2,50	79,929 - 79,964	1,40	0,50
90 - 95	110	50 / 90	2,457 - 2,500	90,000 - 90,086	95,000 - 95,035	2,30 / 2,55	2,20 / 2,50	89,929 - 89,964	1,40	0,50
100 - 105	120	50 / 90	2,457 - 2,500	100,000 - 100,086	105,000 - 105,035	2,30 / 2,55	2,20 / 2,50	99,929 - 99,964	1,40	0,50
110 - 115	130	50 / 90	2,457 - 2,500	110,000 - 110,086	115,000 - 115,035	2,30 / 2,55	2,20 / 2,50	109,929 - 109,964	1,40	0,50
120 - 125	140	50 / 90	2,457 - 2,500	120,000 - 120,086	125,000 - 125,040	2,30 / 2,55	2,20 / 2,50	119,929 - 119,964	1,40	0,50
130 - 135	155	60 / 90	2,450 - 2,500	130,000 - 130,100	135,000 - 135,040	2,30 / 2,55	2,20 / 2,50	129,917 - 129,957	1,40	0,50
140 - 145	165	60 / 90	2,450 - 2,500	140,000 - 140,100	145,000 - 145,040	2,30 / 2,55	2,20 / 2,50	139,917 - 139,957	1,40	0,50
150 - 155	180	60 / 90	2,450 - 2,500	150,000 - 150,100	155,000 - 155,040	2,30 / 2,55	2,20 / 2,50	149,917 - 149,957	1,40	0,50
160 - 165	190	60 / 90	2,450 - 2,500	160,000 - 160,100	165,000 - 165,040	2,30 / 2,55	2,20 / 2,50	159,917 - 159,957	1,40	0,50
170 - 175	200	60 / 90	2,450 - 2,500	170,000 - 170,100	175,000 - 175,040	2,30 / 2,55	2,20 / 2,50	169,917 - 169,957	1,40	0,50
180 - 185	215	60 / 90	2,443 - 2,500	180,000 - 180,114	185,000 - 185,046	2,30 / 2,55	2,20 / 2,50	179,917 - 179,957	1,40	0,50
190 - 195	225	60 / 90	2,443 - 2,500	190,000 - 190,114	195,000 - 195,046	2,30 / 2,55	2,20 / 2,50	189,904 - 189,950	1,40	0,50
200 - 205	235	60 / 90	2,443 - 2,500	200,000 - 200,114	205,000 - 205,046	2,30 / 2,55	2,20 / 2,50	199,904 - 199,950	1,40	0,50
225 - 230	260	60 / 90	2,443 - 2,500	225,000 - 225,114	230,000 - 230,046	2,30 / 2,55	2,20 / 2,50	224,904 - 224,950	1,40	0,50
250 - 255	290	60 / 90	2,443 - 2,500	250,000 - 250,114	255,000 - 255,052	2,30 / 2,55	2,20 / 2,50	249,904 - 249,950	1,40	0,50
265 - 270	305	60 / 90	2,443 - 2,500	265,000 - 265,114	270,000 - 270,052	2,30 / 2,55	2,20 / 2,50	264,892 - 264,944	1,40	0,50
285 - 290	325	60 / 90	2,443 - 2,500	285,000 - 285,114	290,000 - 290,052	2,30 / 2,55	2,20 / 2,50	284,892 - 284,944	1,40	0,50
300 - 305	340	60 / 90	2,443 - 2,500	300,000 - 300,114	305,000 - 305,052	2,30 / 2,55	2,20 / 2,50	299,892 - 299,944	1,40	0,50

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