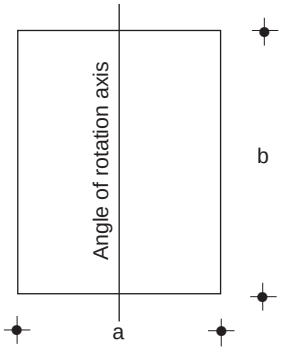


ESZ Type 200

t = 20 mm

with supervisory approval

Approval no. Z-16.32-408

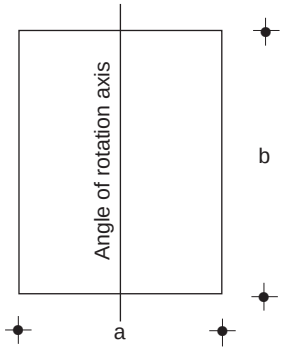
Design table

perm. F = KN (shown by the orange table)
perm. σ_m = N/mm² (shown by the blue table)
perm. α = 0* (no perm. scheduled torsion)

Intermediate dimensions may be interpolated

a = mm / b = mm	100	110	120	130	140	150	160	170	180	190	200	230	250	300	350	400	500
100	80 / 8	90.2	100.8	109.2	119.0	130.5	140.8	151.3	162.0	172.9	184.0	218.5	240.0	300.0	360.5	420.0	550.0
110	8.2	104.0 / 8.6	116.1	128.7	141.7	155.1	167.2	179.5	192.0	204.8	217.8	258.0	286.0	356.4	427.4	501.6	502.0
120	8.4	8.8	133.9 / 9.3	149.7	163.0	178.2	192.0	194.2	224.6	239.4	256.8	300.8	336.0	414.0	499.8	585.6	762.0
130	8.4	9.0	9.6	170.7 / 10.1	187.5	204.8	220.5	240.9	257.4	279.1	293.8	346.8	386.8	479.7	577.9	676.0	884.0
140	8.5	9.2	9.7	10.3	213.6 / 10.1	235.2	255.4	271.3	294.8	316.5	333.2	396.0	441.0	546.0	661.5	778.4	1.008.0
150	8.7	9.4	9.9	10.5	11.2	263.3 / 11.7	285.6	306.0	219.6	356.3	376.2	448.5	498.8	621.0	740.3	882.0	1.147.5
160	8.8	9.5	10.0	10.6	11.4	11.9	320 / 12.5	348.2	368.6	395.2	422.4	500.5	560.0	700.8	840.0	979.2	1.288.0
170	8.9	9.6	10.2	10.9	11.4	12.0	12.8	381.5 / 13.2	416.2	439.3	472.6	567.0	624.8	780.3	934.1	1.101.6	1.436.5
180	9.0	9.7	10.4	11.0	11.7	12.2	12.8	13.6	453.6 / 14.0	492.5	518.4	621.0	688.5	864.0	1.033.2	1.216.8	1.593.0
190	9.1	9.8	10.5	11.3	11.9	12.5	13.0	13.6	14.4	534.3 / 14.8	577.6	677.4	750.5	951.9	1.137.2	1.337.6	1.748.0
200	9.2	9.9	10.7	11.3	11.9	12.6	13.2	13.9	14.4	15.2	624.0 / 15.6	736.0	820.0	1.038.0	1.260.0	1.480.0	1.920.0
230	9.5	10.2	10.9	11.6	12.3	13.0	13.6	14.5	15.0	15.5	16.0	947 / 17.9	1.058.0	1.324.8	1.603.0	1.840.0	2.300.0
250	9.6	10.4	11.2	11.9	12.6	13.3	14.0	14.7	15.3	15.8	16.4	18.4	1.218.8 / 19.5	1.500.0	1.750.0	2.000.0	2.500.0
300	10.0	10.8	11.5	12.3	13.0	13.8	14.6	15.3	16.0	16.7	17.3	19.2	20.0	1.800.0 / 20.0	2.100.0	2.400.0	3.000.0
350	10.3	11.1	11.9	12.7	13.5	14.1	15.0	15.7	16.4	17.1	18.0	19.9	20.0	20.0	2.450.0 / 20.0	2.800.0	3.500.0
400	10.5	11.4	12.2	13.0	13.9	14.7	15.3	16.2	16.9	17.6	18.5	20.0	20.0	20.0	20.0	3.200.0 / 20.0	4.000.0
500	11.0	11.8	12.7	13.6	14.4	15.3	16.1	16.9	17.7	18.4	19.2	20.0	20.0	20.0	20.0	20.0	5.000.0 / 20.0

* = only for bearings subjected to pressure (criteria according to leaflet 339 Daf Stb)



ESZ Type 200

t = 20 mm

with supervisory approval

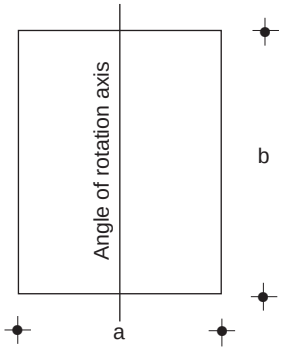
Approval no. Z-16.32-408

Design table

perm. F = KN (shown by the orange table)
perm. σ_m = N/mm² (shown by the blue table)
perm. α = 10‰ (angle of rotation axis at right angles to the smaller bearing side)

Intermediate dimensions may be interpolated

a = mm / b = mm	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	300	350	400	500
80	39.3 6.1	45.3	52.4	58.7	65.5	71.8	79.3	86.1	93.0	99.6	106.3	114.0	120.9	143.9	158.2	197.1	235.7	268.8	336.0
90	6.3	55.7 6.9	63.4	72.0	79.3	87.4	96.2	105.8	114.3	122.9	131.8	140.2	148.8	175.2	195.7	242.8	292.0	339.7	423.0
100	6.6	7.0	76.1 7.6	85.7	96.5	105.5	115.7	126.7	136.9	147.3	158.0	168.8	190.1	210.2	234.0	292.9	351.3	412.4	515.0
110	6.7	7.3	7.8	100.7 8.3	112.5	125.8	136.8	149.2	162.6	174.3	185.3	198.1	211.2	251.0	275.0	343.2	415.8	486.8	610.5
120	6.8	7.3	8.60	8.5	129.9 9.0	144.1	160.3	172.6	184.9	200.0	216.4	231.4	246.7	290.9	322.7	399.8	482.8	566.4	737.6
130	6.9	7.5	8.1	8.8	9.2	164.1 9.7	181.0	200.3	214.6	229.1	246.9	266.4	282.8	335.0	368.7	455.2	552.3	650.7	847.5
140	7.1	7.6	8.3	8.9	9.5	9.9	203.5 10.4	223.3	246.0	262.6	279.3	300.1	317.3	376.2	419.4	520.0	626.3	735.3	963.0
150	7.2	7.8	8.4	9.0	9.6	10.3	10.6	248.4 11.0	271.4	289.7	315.3	335.9	355.1	423.1	471.8	587.7	696.8	828.1	1.083.0
160	7.3	7.9	8.6	9.2	9.6	10.3	11.0	11.3	299.0 11.7	325.4	346.1	377.3	398.1	467.1	525.7	655.1	786.2	920.1	1.204.1
170	7.3	8.0	8.7	9.3	9.8	10.4	11.0	11.4	12.0	355.5 12.3	380.1	406.9	442.4	522.6	580.6	723.9	872.7	1.021.5	1.332.2
180	7.4	8.1	8.8	9.4	10.0	10.6	11.1	11.7	12.0	12.4	418.0 12.9	445.5	475.7	570.1	630.9	793.9	949.7	1.116.6	1.468.3
190	7.5	8.2	8.9	9.5	10.2	10.8	11.3	11.8	12.4	12.6	13.0	486.7 13.5	524.7	623.2	683.5	864.6	1.034.5	1.221.7	1.588.7
200	7.6	8.3	9.5	9.6	10.3	10.9	11.3	11.8	12.4	13.0	13.2	13.8	561.6 14.0	683.1	742.5	935.6	1.124.5	1.328.4	1.728.0
230	7.8	8.5	9.1	9.9	10.5	11.2	11.7	12.3	12.7	13.4	13.8	14.3	14.9	823.5 15.6	916.6	1.146.5	1.391.8	1.631.9	2.151.7
250	7.9	8.7	9.4	10.0	10.8	11.3	12.0	12.6	13.1	13.7	14.0	14.4	14.9	15.9	1.028.3 16.5	1.305.2	1.564.2	1.851.0	2.432.4
300	8.2	9.0	9.8	10.4	11.1	11.7	12.4	13.1	13.6	14.2	14.7	15.2	15.6	16.6	17.4	1.632.2 18.1	2.014.0	2.322.7	3.000.0
350	8.4	9.3	10.0	10.8	11.5	12.1	12.8	13.3	14.0	14.7	15.1	15.6	16.1	17.3	17.9	19.2	2.320.1 18.9	2.740.7	3.500.0
400	8.4	9.4	10.3	11.1	11.8	12.5	13.1	13.8	14.4	15.0	15.5	16.1	16.6	17.7	18.5	19.4	19.6	2.995.2 18.7	3.942.0
500	8.4	9.4	10.3	11.1	12.3	13.0	13.8	14.4	15.1	15.7	16.3	16.7	17.3	18.7	19.5	20.0	20.0	19.7	3.656.3 14.6



ESZ Type 200

t = 20 mm

with supervisory approval

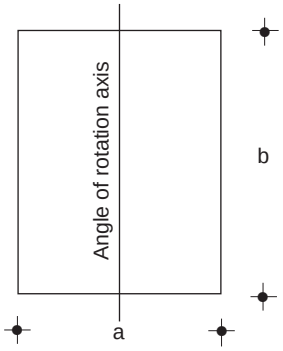
Approval no. Z-16.32-408

Design table

perm. F = KN (shown by the orange table)
perm. σ_m = N/mm² (shown by the blue table)
perm. α = 25‰ (angle of rotation axis at right angles to the smaller bearing side)

Intermediate dimensions may be interpolated

a = mm / b = mm	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	300	350	400	500
80	38.3 / 6.0	44.2	51.1	57.3	63.9	70.1	77.4	84.0	90.7	97.1	103.7	111.2	118.0	140.4	154.4	192.3	230.0	262.4	328.0
90	6.1	54.0 / 6.7	61.4	69.8	76.8	84.7	93.3	102.5	110.7	119.1	127.7	135.9	144.2	169.8	189.6	235.3	282.9	329.2	364.0
100	6.4	6.8	73.1 / 7.3	82.4	92.8	101.5	111.2	121.8	131.6	141.6	151.9	162.3	182.8	202. 1	225.0	281.6	337.8	396.6	495.0
110	6.5	7.0	7.5	96.0 / 7.9	107.2	120.0	130.4	142.2	155.0	166.1	176.7	188.9	201.3	239.2	262.1	327.2	396.4	464.1	577.5
120	6.7	7.1	7.7	8.1	122.7 / 8.5	136.1	151.4	162.9	174.5	188.8	204.3	218.5	232.9	274.6	304.7	377.4	455.8	534.6	696.3
130	6.7	7.2	7.8	8.4	8.7	153.3 / 9.1	169.0	187.0	200.4	213.9	230.6	248.8	264.1	312.9	344.3	425.1	515.8	607.6	791.4
140	6.9	7.4	7.9	8.5	9.0	9.3	187.8 / 9.6	206.1	227.0	242.3	257.7	276.9	292.8	347.1	387.0	479.9	577.9	678.5	888.6
150	7.0	7.6	8.1	8.6	9.0	9.63	9.8	226.2 / 10.1	247.1	263.8	287.1	305.8	323.4	385.2	429.6	535.1	634.5	754.1	986.1
160	7.1	7.7	8.2	8.8	9.1	9.6	10.1	10.3	268.4 / 10.5	292.0	310.6	338.6	357.2	419.2	471.7	587.9	705.6	825.8	1.080.6
170	7.1	7.8	8.3	8.9	9.3	9.7	10.2	10.3	10.7	314.0 / 10.9	335.7	359.4	390.7	461.6	512.8	639.4	770.8	902.2	1.176.6
180	7.2	7.9	8.4	8.9	9.5	9.9	10.2	10.6	10.8	11.0	362.8 / 11.2	386.6	412.8	494.8	547.5	688.9	824.1	969.0	1.274.2
190	7.3	7.9	8.5	9.0	9.6	10.1	10.4	10.7	11.1	11.1	11.3	414.3 / 11.5	446.6	530.4	581.8	735.9	880.6	1.039.9	1.352.3
200	7.4	8.0	9.1	9.2	9.7	10.2	10.5	10.8	11.2	11.5	11.5	11.8	468.0 / 11.7	569.3	618.8	779.6	937.1	1.107.0	1.440.0
230	7.6	8.2	8.8	9.5	10.0	10.5	10.8	11.2	11.4	11.8	12.0	12.1	12.4	635.3 / 12.0	707.1	884.4	1.073.6	1.258.8	1.659.8
250	7.7	8.4	9.0	9.5	10.2	10.6	11.1	11.5	11.8	12.1	12.2	12.2	12.4	12.3	742.7 / 11.9	942.6	1.129.7	1.336.8	1.756.7
300	8.0	8.7	9.4	9.9	10.5	10.9	11.4	11.9	12.2	12.5	12.8	12.9	13.0	12.8	12.6	921.4 / 10.2	1.137.0	1.311.2	1.727.6
350	8.2	9.0	9.7	10.3	10.9	11.3	11.8	12.1	12.6	13.1	13.1	13.2	13.4	13.3	12.9	10.8	783.8 / 6.4	925.9	1.216.6
400	8.2	9.1	9.9	10.5	11.1	11.7	12.1	12.6	12.9	13.3	13.5	13.7	13.8	13.7	13.4	10.9	6.6		
500	8.2	9.1	9.9	10.5	11.6	12.2	12.7	13.1	13.5	13.8	14.2	14.2	14.4	14.4	14.1	11.5	7.0		



ESZ Type 200

t = 20 mm

with supervisory approval

Approval no. Z-16.32-408

Design table

perm. F = KN (shown by the orange table)
perm. σ_m = N/mm² (shown by the blue table)
perm. α = 50‰ (angle of rotation axis at right angles to the smaller bearing side)

Intermediate dimensions may be interpolated

a = mm / b = mm	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	300	350	400	500
80	36.7 5.7	42.3	49.0	54.9	61.2	67.2	74.7	80.5	96.9	93.1	99.4	106.6	113.0	134.6	147.9	184.3	220.4	252.8	316.0
90	5.9	51.1 6.3	58.1	66.1	72.7	80.2	88.3	97.0	104.8	112.8	120.9	128.6	136.5	160.7	179.5	222.8	267.8	311.7	391.5
100	6.1	6.5	68.3 6.8	76.9	86.6	94.7	103.8	113.7	122.9	132.2	141.8	151.5	170.6	188.7	210.0	262.8	315.2	370.1	465.0
110	6.2	6.7	7.0	88.1 7.3	98.4	110.1	119.7	130.6	142.3	152.5	162.2	173.4	184.9	219.7	240.7	300.4	363.9	426.1	533.5
120	6.4	6.7	7.2	7.5	110.5 7.7	122.6	136.4	146.8	157.3	170.1	184.1	196.9	209.9	247.5	274.5	340.1	410.7	481.8	627.4
130	6.5	6.9	7.3	7.7	7.9	135.2 8.0	149.1	165.0	176.8	188.7	203.3	219.4	232.9	275.9	303.7	374.9	454.9	535.9	697.9
140	6.6	7.0	7.4	7.8	8.1	8.2	161.6 8.2	177.3	195.3	208.5	221.7	238.3	251.9	298.7	333.0	412.9	497.2	583.8	764.5
150	6.7	7.2	7.6	7.9	8.2	8.5	8.4	189.2 8.4	206.7	220.6	240.2	255.8	270.5	322.2	359.3	447.6	530.6	630.7	824.8
160	6.8	7.3	7.7	8.1	8.2	8.5	8.7	8.6	217.3 8.5	236.4	251.5	274.1	289.2	339.3	381.9	475.9	571.2	668.5	874.8
170	6.8	7.4	7.8	8.2	8.3	8.5	8.8	8.7	8.7	244.8 8.5	261.7	280.2	304.6	359.8	399.8	498.4	600.9	703.3	917.2
180	6.9	7.5	7.9	8.2	8.5	8.7	8.8	8.9	8.7	8.6	270.7 8.4	288.4	308.0	369.1	408.5	514.0	614.8	722.9	950.6
190	7.0	7.5	8.0	8.3	8.6	8.9	9.0	9.0	9.0	8.7	8.4	293.6 8.1	316.5	375.9	412.3	521.5	624.0	736.9	958.3
200	7.1	7.6	8.5	8.4	8.7	9.0	9.0	9.0	9.0	9.0	8.6	8.3	312.0 7.8	379.5	412.5	519.8	624.8	738.0	960.0
230	7.3	7.8	8.2	8.7	9.0	9.2	9.3	9.3	9.2	9.2	8.9	8.6	8.3	321.5 6.1	357.8	447.5	543.3	637.1	840.0
250	7.4	8.0	8.4	8.8	9.2	9.3	9.5	9.6	9.5	9.4	9.1	8.7	8.3	6.2	266.6 4.3	338.4	405.5	479.9	630.6
300	7.7	8.3	8.8	9.1	9.4	9.6	9.8	9.9	9.9	9.8	9.5	9.1	8.7	6.5	4.5				
350	7.9	8.5	9.0	9.5	9.8	10.0	10.1	10.1	10.2	10.1	9.8	9.4	8.9	6.7	4.6				
400	7.9	8.7	9.3	9.7	10.0	10.3	10.4	10.5	10.4	10.3	10.0	9.7	9.2	6.9	4.8				
500	7.9	8.7	9.3	9.7	10.5	10.7	10.9	11.0	10.9	10.8	10.6	10.1	9.6	7.3	5.0				

perm. F = KN

perm. σ_m = N/mm²