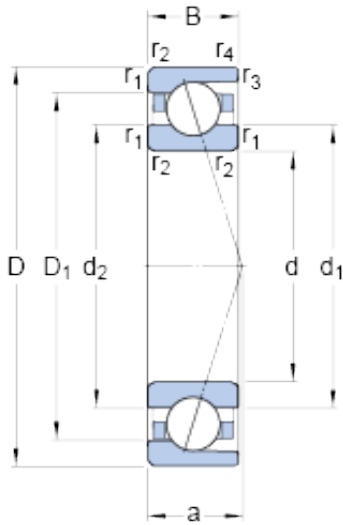




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71814 ACD/HCP4 Bearing 2D drawings and 3D CAD models

70 mm x 90 mm x 10 mm SKF 71814 ACD/HCP4 angular contact ball bearings

Bearing No. 71814 ACD/HCP4

Size	90x70x10 mm
Bore Diameter	90 mm
Outer Diameter	70 mm
Width	10 mm
d	70 mm
D	90 mm
B	10 mm
d ₁	76.7 mm
d ₂	76.7 mm
D ₁	83.5 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	23.7 mm
d _a - min.	73.2 mm
d _b - min.	73.2 mm
D _a - max.	86.8 mm
D _b - max.	88 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	77.4 mm
Basic dynamic load rating - C	13 kN
Basic static load rating - C ₀	15 kN
Fatigue load limit - P _u	0.64 kN
Limiting speed for grease	15000 r/min



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Lubrication	
Limiting speed for oil lubrication	24000 mm/min
Ball - D_w	5.556 mm
Ball - z	31
G_{ref}	1.4 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	117 N
Preload class B - G_B	350 N
Preload class C - G_C	700 N
Calculation factor - f	1.32
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.17
Calculation factor - f_{HC}	1.02
Preload class A	169 N/micron
Preload class B	268 N/micron
Preload class C	368 N/micron
d_1	76.7 mm
d_2	76.7 mm
D_1	83.5 mm
$r_{1,2}$ min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	73.2 mm
d_b min.	73.2 mm
D_a max.	86.8 mm
D_b max.	88 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	77.4 mm
Basic dynamic load rating C	13 kN
Basic static load rating C_0	15 kN
Fatigue load limit P_u	0.64 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	31
Reference grease quantity G_{ref}	1.4 cm ³
Preload class A G_A	117 N
Static axial stiffness, preload class A	169 N/ μ m
Preload class B G_B	350 N
Static axial stiffness, preload class B	268 N/ μ m
Preload class C G_C	700 N
Static axial stiffness, preload class C	368 N/ μ m
Calculation factor f	1.32
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.17
Calculation factor f_{HC}	1.02



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Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.12 kg