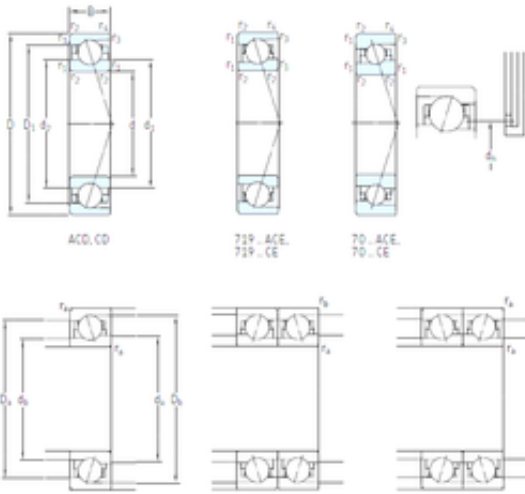




# Air Suspension Bearing Co., Ltd



70 mm x 90 mm x 10 mm SKF 71814 ACD/P4 angular contact ball bearings

Bearing No. 71814 ACD/P4

71814 ACD/P4 Bearing 2D drawings and 3D CAD models

Size	70x90x10 mm
Bore Diameter	70 mm
Outer Diameter	90 mm
Width	10 mm
d	70 mm
D	90 mm
B	10 mm
C	10 mm
d1	76,7 mm
d2	76,7 mm
r1 min.	0,6 mm
r2 min.	0,6 mm
r3 min.	0,3 mm
r4 min.	0,3 mm
D1	83,5 mm
D2	– mm
da min.	73,2 mm
Da max.	86,8 mm
db min	73,2 mm
ra max.	0,6 mm
rb max.	0,3 mm
dh	77,4 mm
Db max	88 mm
Weight	0,13 Kg
Basic dynamic load rating (C)	13 kN



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Basic static load rating (C0)	15 kN
(Grease) Lubrication Speed	13 000 r/min
(Oil) Lubrication Speed	19 000 r/min
Fatigue load limit (Pu)	0,64
d <sub>1</sub>	76.7 mm
d <sub>2</sub>	76.7 mm
D <sub>1</sub>	83.5 mm
r <sub>1,2</sub> min.	0.6 mm
r <sub>3,4</sub> min.	0.3 mm
a	23.7 mm
d <sub>a</sub> min.	73.2 mm
d <sub>b</sub> min.	73.2 mm
D <sub>a</sub> max.	86.8 mm
D <sub>b</sub> max.	88 mm
r <sub>a</sub> max.	0.6 mm
r <sub>b</sub> max.	0.3 mm
d <sub>n</sub>	77.4 mm
Basic dynamic load rating C	13 kN
Basic static load rating C <sub>0</sub>	15 kN
Fatigue load limit P <sub>u</sub>	0.64 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter D <sub>w</sub>	5.556 mm
Number of balls z	31
Reference grease quantity G <sub>ref</sub>	1.4 cm <sup>3</sup>
Preload class A G <sub>A</sub>	117 N
Static axial stiffness, preload class A	152 N/ μ m
Preload class B G <sub>B</sub>	350 N
Static axial stiffness, preload class B	241 N/ μ m



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Preload class C $G_C$	700 N
Static axial stiffness, preload class C	332 N/ $\mu$ m
Calculation factor $f$	1.32
Calculation factor $f_1$	0.97
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.08
Calculation factor $f_{2C}$	1.15
Calculation factor $f_{HC}$	1
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	0.13 kg