



# San Driveshaft Co., Ltd.



## 95 mm x 120 mm x 13 mm SKF 71819 ACD/P4 High Accuracy Precision Bearings

Bearing No. 71819 ACD/P4

71819 ACD/P4 Bearing 2D drawings and 3D CAD models

Size	120x95x13 mm
Bore Diameter	120 mm
Outer Diameter	95 mm
Width	13 mm
d	95 mm
D	120 mm
B	13 mm
d <sub>1</sub>	103.2 mm
d <sub>2</sub>	103.2 mm
D <sub>1</sub>	112.1 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	31.6 mm
d <sub>a</sub> - min.	99.6 mm
d <sub>b</sub> - min.	99.6 mm
D <sub>a</sub> - max.	115.4 mm
D <sub>b</sub> - max.	118 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	104.1 mm
Basic dynamic load rating - C	20.8 kN
Basic static load rating - C <sub>0</sub>	25.5 kN
Fatigue load limit - P <sub>u</sub>	1.1 kN
Limiting speed for grease	9500 r/min



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Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - $D_w$	7.144 mm
Ball - $z$	32
$G_{ref}$	3.1 cm <sup>3</sup>
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 - $G_A$	186 N
Preload class B - $G_B$	560 N
Preload class C - $G_C$	1120 N
Calculation factor - $f$	1.36
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
Preload class A	200 N/micron
Preload class B	316 N/micron
Preload class C	436 N/micron
$d_1$	103.2 mm
$d_2$	103.2 mm
$D_1$	112.1 mm
$r_{1,2}$ min.	1 mm



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$r_{3,4}$ min.	0.3 mm
$d_a$ min.	99.6 mm
$d_b$ min.	99.6 mm
$D_a$ max.	115.4 mm
$D_b$ max.	118 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	104.1 mm
Basic dynamic load rating C	20.8 kN
Basic static load rating $C_0$	25.5 kN
Fatigue load limit $P_u$	1.06 kN
Attainable speed for grease lubrication	9500 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	32
Reference grease quantity $G_{ref}$	3.1 cm <sup>3</sup>
Preload class A $G_A$	186 N
Static axial stiffness, preload class A	200 N/ $\mu$ m
Preload class B $G_B$	560 N
Static axial stiffness, preload class B	316 N/ $\mu$ m
Preload class C $G_C$	1120 N
Static axial stiffness, preload class C	436 N/ $\mu$ m
Calculation factor f	1.36
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



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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	0.29 kg