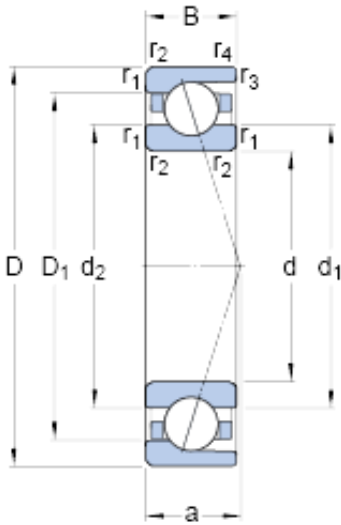




# NTN Bearing Rolamentos do Brasil Ltda.



9 mm x 26 mm x 8 mm skf 729 ACD/P4A Super-precision Angular contact ball bearings

Bearing No. 729 ACD/P4A

729 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	26x9x8 mm
Bore Diameter	26 mm
Outer Diameter	9 mm
Width	8 mm
d	9 mm
D	26 mm
B	8 mm
d <sub>1</sub>	15.1 mm
d <sub>2</sub>	15.1 mm
D <sub>1</sub>	20.9 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	8.3 mm
d <sub>a</sub> - min.	11.4 mm
d <sub>b</sub> - min.	11.4 mm
D <sub>a</sub> - max.	23.6 mm
D <sub>b</sub> - max.	24.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	16.3 mm
Basic dynamic load rating - C	4 kN
Basic static load rating - C <sub>0</sub>	1.6 kN
Fatigue load limit - P <sub>u</sub>	0.067 kN
Limiting speed for grease	60000 r/min



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Lubrication	
Limiting speed for oil lubrication	90000 mm/min
Ball - $D_w$	4.762 mm
Ball - $z$	9
$G_{ref}$	0.258 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 - $G_A$	25 N
Preload class B - $G_B$	50 N
Preload class C - $G_C$	100 N
Preload class D - $G_D$	200 N
Calculation factor - $f$	1.02
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.02
Calculation factor - $f_{2D}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	32 N/micron
Preload class B	41 N/micron
Preload class C	54 N/micron
Preload class D	71 N/micron



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$d_1$	15.1 mm
$d_2$	15.1 mm
$D_1$	20.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	11.4 mm
$d_b$ min.	11.4 mm
$D_a$ max.	23.6 mm
$D_b$ max.	24.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	16.3 mm
Basic dynamic load rating C	3.97 kN
Basic static load rating $C_0$	1.6 kN
Fatigue load limit $P_u$	0.067 kN
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	90000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	9
Reference grease quantity $G_{ref}$	0.258 cm <sup>3</sup>
Preload class A $G_A$	25 N
Static axial stiffness, preload class A	32 N/ $\mu$ m
Preload class B $G_B$	50 N
Static axial stiffness, preload class B	41 N/ $\mu$ m
Preload class C $G_C$	100 N
Static axial stiffness, preload class C	54 N/ $\mu$ m
Preload class D $G_D$	200 N
Static axial stiffness, preload class D	71 N/ $\mu$ m



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class D	
Calculation factor f	1.02
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.02
Calculation factor $f_{2D}$	1.05
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	0.02 kg