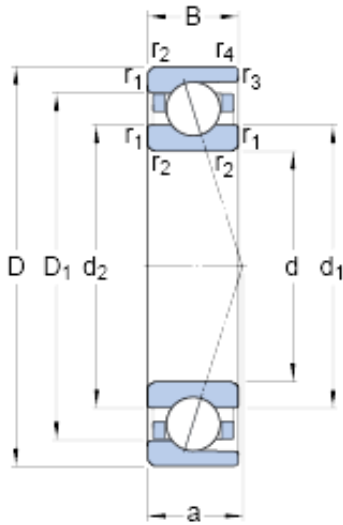




## BEARING de Mexico?S.A.



71903 CD/HCP4A Bearing 2D drawings and 3D CAD models

17 mm x 30 mm x 7 mm SKF 71903  
CD/HCP4A Angular contact ball bearings

Bearing No. 71903 CD/HCP4A

Size	30x17x7 mm
Bore Diameter	30 mm
Outer Diameter	17 mm
Width	7 mm
d	17 mm
D	30 mm
B	7 mm
d <sub>1</sub>	20.9 mm
d <sub>2</sub>	20.9 mm
D <sub>1</sub>	25.7 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	6.7 mm
d <sub>a</sub> - min.	19 mm
d <sub>b</sub> - min.	19 mm
D <sub>a</sub> - max.	28 mm
D <sub>b</sub> - max.	28.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	22.1 mm
Basic dynamic load rating - C	4.2 kN
Basic static load rating - C <sub>0</sub>	2.1 kN
Fatigue load limit - P <sub>u</sub>	0.088 kN
Limiting speed for grease	63000 r/min



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Lubrication	
Limiting speed for oil lubrication	90000 mm/min
Ball - $D_w$	3.969 mm
Ball - $z$	14
$G_{ref}$	0.24 cm <sup>3</sup>
Calculation factor - $f_0$	9.8
Preload class A - $G_A$	15 N
Preload class B - $G_B$	30 N
Preload class C - $G_C$	60 N
Preload class D - $G_D$	120 N
Calculation factor - $f$	1.05
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.18
Calculation factor - $f_{HC}$	1.04
Preload class A	18 N/micron
Preload class B	24 N/micron
Preload class C	34 N/micron
Preload class D	47 N/micron
$d_1$	20.9 mm
$d_2$	20.9 mm
$D_1$	25.7 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	28 mm



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$D_b$ max.	28.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	22.1 mm
Basic dynamic load rating C	4.16 kN
Basic static load rating $C_0$	2.08 kN
Fatigue load limit $P_u$	0.088 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	90000 r/min
Ball diameter $D_w$	3.969 mm
Number of balls z	14
Reference grease quantity $G_{ref}$	0.24 cm <sup>3</sup>
Preload class A $G_A$	15 N
Static axial stiffness, preload class A	18 N/ $\mu$ m
Preload class B $G_B$	30 N
Static axial stiffness, preload class B	24 N/ $\mu$ m
Preload class C $G_C$	60 N
Static axial stiffness, preload class C	34 N/ $\mu$ m
Preload class D $G_D$	120 N
Static axial stiffness, preload class D	47 N/ $\mu$ m
Calculation factor f	1.05
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.18
Calculation factor $f_{HC}$	1.04



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Calculation factor $f_0$	9.8
Mass bearing	0.015 kg