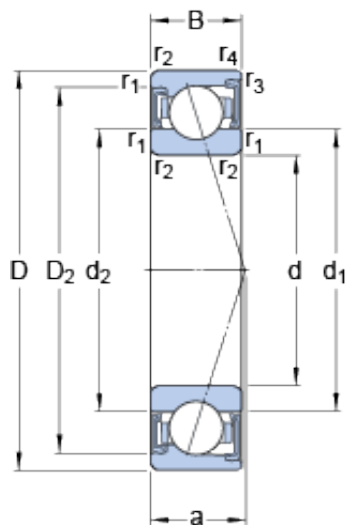




ISOSTATIC BEARING LIMITED

S71903 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71903 CD/P4A



S71903 CD/P4A Bearing 2D drawings and 3D CAD models

Size	30x17x7 mm
Bore Diameter	30 mm
Outer Diameter	17 mm
Width	7 mm
d	17 mm
D	30 mm
B	7 mm
d ₁	20.9 mm
d ₂	20.9 mm
D ₂	27.8 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	6.7 mm
d _a - min.	19 mm
d _a - max.	20.5 mm
d _b - min.	19 mm
d _b - max.	20.5 mm
D _a - max.	28 mm
D _b - max.	28.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
Basic dynamic load rating - C	4.2 kN
Basic static load rating - C ₀	2.1 kN
Fatigue load limit - P _u	0.088 kN



ISOSTATIC BEARING LIMITED

Limiting speed for grease lubrication	50000 r/min
Ball - D_w	3.969 mm
Ball - z	14
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}	1.04
Calculation factor - f_{2C}	1.09
Calculation factor - f_{2D}	1.15
Calculation factor - f_{HC}	1
Preload class A	16 N/micron
Preload class B	22 N/micron
Preload class C	30 N/micron
Preload class D	43 N/micron
d_1	20.9 mm
d_2	20.9 mm
D_2	27.8 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	19 mm
d_a max.	20.5 mm
d_b min.	19 mm
d_b max.	20.5 mm
D_a max.	28 mm
D_b max.	28.6 mm



ISOSTATIC BEARING LIMITED

r_a max.	0.3 mm
r_b max.	0.2 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	50000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	14
Preload class A G_A	15 N
Static axial stiffness, preload class A	16 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	22 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	30 N/ μ m
Preload class D G_D	120 N
Static axial stiffness, preload class D	43 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	9.8
Mass bearing	0.017 kg