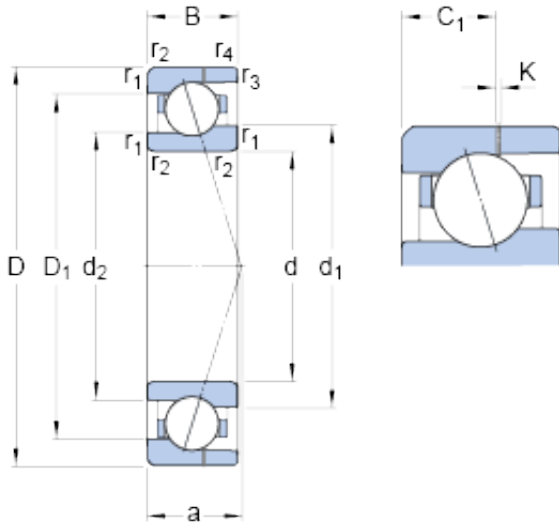




# BEARING DRIVESHAFT ANDERSON, INC.



17 mm x 30 mm x 7 mm SKF 71903 ACE/P4AH  
Angular contact ball bearing

Bearing No. 71903 ACE/P4AH

71903 ACE/P4AH 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 <sub>1</sub>	21.1 mm
d <sub>2</sub>	20.1 mm
D <sub>1</sub>	25.9 mm
K	0.5 mm
C <sub>1</sub>	4.35 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	9.6 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.	29.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	22 mm
Basic dynamic load rating - C	3.2 kN
Basic static load rating - C <sub>0</sub>	1.5 kN



## BEARING DRIVESHAFT ANDERSON, INC.

Fatigue load limit - $P_u$	0.063 kN
Limiting speed for grease lubrication	63000 r/min
Limiting speed for oil lubrication	95000 mm/min
Ball - $D_w$	3.969 mm
Ball - $z$	13
$G_{ref}$	0.2 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 - $G_A$	29 N
Preload class B - $G_B$	87 N
Preload class C - $G_C$	175 N
Calculation factor - $f$	1.05
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.07
Calculation factor - $f_{HC}$	1
Preload class A	35 N/micron
Preload class B	55 N/micron
Preload class C	71 N/micron
$d_1$	21.1 mm
$d_2$	20.1 mm



## BEARING DRIVESHAFT ANDERSON, INC.

$D_1$	25.9 mm
$C_1$	4.35 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	28 mm
$D_b$ max.	29.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	22 mm
Basic dynamic load rating C	3.19 kN
Basic static load rating $C_0$	1.46 kN
Fatigue load limit $P_u$	0.063 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter $D_w$	3.969 mm
Number of balls z	13
Reference grease quantity $G_{ref}$	0.2 cm <sup>3</sup>
Preload class A $G_A$	29 N
Static axial stiffness, preload class A	35 N/ $\mu$ m
Preload class B $G_B$	87 N
Static axial stiffness, preload class B	55 N/ $\mu$ m
Preload class C $G_C$	175 N
Static axial stiffness, preload class C	71 N/ $\mu$ m
Calculation factor f	1.05
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1



## BEARING DRIVESHAFT ANDERSON, INC.

Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.07
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	0.016 kg