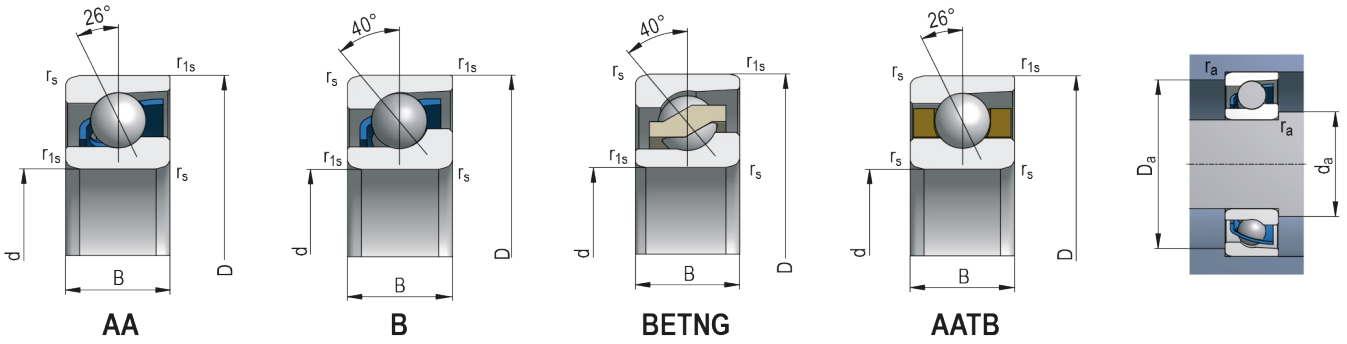
Single row angular contact ball bearings



Bearing Designation	7203AA

Dimensions (mm)

d	17
D	40
B	12
r_s min	0,6
r_{1s} min	

Abutment and Fillet Dimensions (mm)

d_a min	21
D_a max	36
r_a max	0,6

Basic Load Rating (kN)

C	11,08
C_0	6,14

Limiting Speed for Lubrication (min^{-1})

Grease	14000
Oil	19000

Weight [kg]	0,068

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Tolerance Class

Tolerance Class	Inner Ring									
	Cylindrical Bore									
	Δ_{dmp}		V_{dp}			V_{dmp}	K_{ia}	Δ_{B_s}		V_{B_s}
			Diameter Series							
			7,8,9	0,1	2,3,4					
	max	min	max	max	max	max	max	max	min	max
	µm									
P0	0	-8	10	8	6	6	10	0	-120	20
P6	0	-7	9	7	5	5	7	0	-120	20

Tolerance Class	Inner Ring									
	Tapered Bore 1:12					Tapered Bore 1:30				
	Δ_{dmp}		$\Delta_{d1mp} - \Delta_{dmp}$		V_{dp} [1]	Δ_{dmp}		$\Delta_{d1mp} - \Delta_{dmp}$		V_{dp} [1]
	max	min	max	min	max	max	min	max	min	max
	µm									
P0 = P6	-	-	-	-	-	-	-	-	-	-

Tolerance Class	Outer Ring								
	Δ_{Dmp}		V_{Dp}			bearings [2] with seals	V_{Dmp}	K_{ea}	Δ_{CS}, V_{CS}
			Diameter Series						
			7,8,9	0,1	2,3,4				
	max	min	max	max	max	max	max	max	
	µm								
P0	0	-11	14	11	8	16	8	20	Corresponds to Δ_{BS}, V_{BS} of the same bearing inner ring
P6	0	-9	11	9	7	13	7	10	

1) Valid in any bore radial plane

2) P0 - Valid only for bearings in diameter series 2, 3 and 4 * P6 - Valid only for bearings in diameter series 0, 1, 2, 3 and 4

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Tolerance Symbols and Their Meaning

d	nominal bore diameter
d_1	nominal diameter of larger theoretical tapered bore diameter
d_2	nominal diameter of the shaft washer of double direction thrust bearings
Δ_{ds}	deviation of single bore diameter from nominal
Δ_{dmp}	mean cylindrical bore diameter deviation in single radial plane (for tapered bore Δ_{dmp} is valid for theoretical bore diameter)
Δ_{d1mp}	deviation of mean larger theoretical diameter of tapered bore
Δ_{d2mp}	mean shaft washer bore diameter deviation of double direction thrust bearings in single radial plane
V_{dp}	single bore diameter variation in single radial plane
V_{dmp}	mean cylindrical bore diameter variation
V_{d2p}	shaft washer bore diameter variation of double direction thrust bearings in single radial plane
D	nominal outside diameter
Δ_{Ds}	deviation of single outside diameter from the nominal dimension
Δ_{Dmp}	mean outside cylindrical surface diameter deviation in single plane
V_{Dp}	single outside cylindrical surface diameter variation in single radial plane
V_{Dmp}	mean outside cylindrical surface diameter variation
B	inner ring nominal width
T	total nominal width of tapered roller bearings
T_1	nominal effective width of cup sub-unit
T_2	nominal effective width of cone sub-unit
H	rated width of unidirectional axial bearing
H_1	rated height of unidirectional ball axial bearing including the body ring
H_2	rated height of bidirectional axial bearing
H_3	rated height of bidirectional axial ball bearing including body rings
H_4	rated height of spherical-roller bearing
Δ_{Bs}	inner ring single width deviation
Δ_{Cs}	outer ring single width deviation
Δ_{Ts}	bearing single width deviation (total)
Δ_{T1s}	cone sub-unit effective width deviation
Δ_{T2s}	cup sub-unit effective width deviation
Δ_{Hs}	height deviation of single direction axial bearings from nominal value
Δ_{H1s}	height deviation of single direction axial ball bearings with sphered housing washer from nominal value
Δ_{H2s}	height deviation of double direction axial bearings from nominal value
Δ_{H3s}	height deviation of double direction axial ball bearings with sphered housing washer from nominal value
Δ_{H4s}	height deviation of axial spherical-roller bearing from the rated value
C	outer ring nominal width
V_{Bs}	inner ring single width variation
V_{Cs}	outer ring single width variation
K_{ia}	radial runout of assembled bearing inner ring
K_{ea}	radial runout of assembled bearing outer ring
S_i	shaft washer raceway axial runout
S_e	housing washer raceway axial runout
S_{ia}	inner ring flat seat face axial runout of assembled bearing
S_{ea}	outer ring flat seat face axial runout of assembled bearing
S_d	flat seat face axial runout
S_D	runout of outside cylindrical surface towards outer ring face
S_s	runout of supporting face towards seat face for single row tapered roller bearings