

Single Row Angular Contact Ball Bearings

7900 Series-7903DT,7903DF,7903DB,7903A5



Bearing Numbers

Single row	7903A5
DB	7903DB
DF	7903DF
DT	7903DT

Principal dimensions(mm)

d	17
D	30
B	7
r(min)	0.3
r1(min)	0.15

Basic load ratings(N)

Cr	4750
Cor	2800

Basic load ratings(kgf)

Cr	485
Cor	286

Value

f ₀	15.1
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Limiting Speed (rpm)

Grease	30000
Oil	40000

Distance of action point(mm)

a	9
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Abutment and fillet dimensions

d _a (min)	19.5
D _a (max)	27.5
r _a (max)	0.3

Weight

(kg)	0.017
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Basic load ratings(duplex bearing) (N)

Cr	7750
Cor	5600

Basic load ratings(duplex bearing) (kgf)

Cr	790
Cor	570

Limiting Speed(duplex bearing) (rpm)

Grease	24000
Oil	32000

Distance of action point (duplex bearing)(a₀)

back-to-back arrangement	18
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face-to-face arrangement	4
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Installation dimensions(duplex bearing)

db(min)	-
Db(max)	28.8
rb(max)	0.15

Angular contact ball bearings have inner and outer ring raceways that are displaced relative to each other in the direction of the bearing axis. This means that these bearings are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads.

The axial load carrying capacity of angular contact ball bearings increases as the contact angle increases. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the combined load is transmitted from one raceway to another, and a line perpendicular to the bearing axis

The most commonly used designs are:

single row angular contact ball bearings

double row angular contact ball bearings

four-point contact ball bearings

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