

## Single Row Angular Contact Ball Bearings

7900 Series-7901DT,7901DF,7901DB,7901C



## Bearing Numbers

Single row	<b>7901C</b>
DB	<b>7901DB</b>
DF	<b>7901DF</b>
DT	<b>7901DT</b>

## Principal dimensions(mm)

d	12
D	24
B	6
r(min)	0.3
r1(min)	0.15

## Basic load ratings(N)

Cr	3350
Cor	1860

## Basic load ratings(kgf)

Cr	340
Cor	189

## Value

fo	14.7
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## Limiting Speed (rpm)

Grease	45000
Oil	63000

## Distance of action point(mm)

a	5.4
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## Abutment and fillet dimensions

da(min)	14.5
Da(max)	21.5
ra(max)	0.3

## Weight

(kg)	0.011
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## Basic load ratings(duplex bearing) (N)

Cr	5450
Cor	3700

## Basic load ratings(duplex bearing) (kgf)

Cr	555
Cor	380

## Limiting Speed(duplex bearing) (rpm)

Grease	36000
Oil	50000

## Distance of action point (duplex bearing)(a0)

back-to-back	10.8
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## arrangement

face-to-face	1.2
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## arrangement

## Installation dimensions(duplex bearing)

db(min)	ago
Db(max)	22.8
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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