

Single Row Angular Contact Ball Bearings

7900 Series-7906DT,7906DF,7906DB,7906A5



Bearing Numbers

Single row	7906A5
DB	7906DB
DF	7906DF
DT	7906DT

Principal dimensions(mm)

d	30
D	47
B	9
r(min)	0.3
r1(min)	0.15

Basic load ratings(N)

Cr	7850
Cor	5950

Basic load ratings(kgf)

Cr	800
Cor	605

Value

fo	16.1
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Limiting Speed (rpm)

Grease	18000
Oil	24000

Distance of action point(mm)

a	13.5
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Abutment and fillet dimensions

da(min)	32.5
Da(max)	44.5
ra(max)	0.3

Weight

(kg)	0.049
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Basic load ratings(duplex bearing) (N)

Cr	12800
Cor	11900

Basic load ratings(duplex bearing) (kgf)

Cr	1300
Cor	1210

Limiting Speed(duplex bearing) (rpm)

Grease	14000
Oil	19000

Distance of action point (duplex bearing)(a0)

back-to-back	27
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arrangement

face-to-face	9
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arrangement

Installation dimensions(duplex bearing)

db(min)	ago
Db(max)	45.8
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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