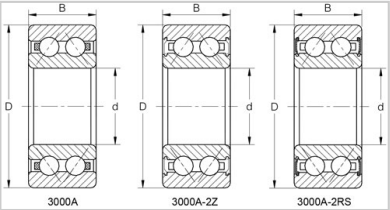
Angular Contact Ball Bearing

Double Row Angular Contact Ball Bearings-12

Principal Dimensions	
d	**12**
D	28
B	**12**
Designation	3001A
Basic Load Ratings	
Dynamic Cr	6.1
Static Cor	3.7
Limited Speed	
Grease	17000
Oil	22000
Weight ≈	0.025



Double row angular contact ball bearings

Features

The sealing system of a double row angular contact ball bearings - which correspond, in structure and function, to a pair of single-row angular contact ball bearings in a back to back (“O”) arrangement - provide an excellent protection against the ingress of dirt and ensures an optimum service life.

Double row angular contact ball bearings are units with solid inner and outer rings and ball and cage assemblies with polyamide or sheet steel cages. Their construction is similar to a pair of single row angular contact ball bearings in an O arrangement but they

are narrower to a certain extent.

The bearings are available in open and sealed designs.

Due to the manufacturing processes used, open bearings can have turned recesses in the outer ring for seals or shields. Sealed bearings are maintenance-free and therefore allow particularly economical bearing arrangements.

Due to the raceway geometry and the two rows of balls, the bearing can support forces in both radial and axial directions.

They are therefore particularly suitable for use in pumps and agricultural machinery. Furthermore, double row angular contact ball bearings are used in applications including conveying equipment,

packaging equipment, elevators and compressors.

The angular adjustment facility of angular contact ball bearings is very limited. The adjustment angle should not exceed 2?.

Product Features

• Shields 2ZR: sheet steel discs

• Seals 2RS: made of nitrile rubber reinforced with an embedded steel disc.

Benefits

• Contact seals providing excellent protection against the ingress of contamination, reducing wear on the raceways and ball surface, reducing noise, vibration and the risk of lubricant failure

• Designed to accomodate radial and axial forces in both directions

• Capacity to accept moment loading

• Other bearing variants available on request

• Outer and inner ring: diameter, width, threads etc.

• Contour options: crowned, gothic etc.

• Special seals