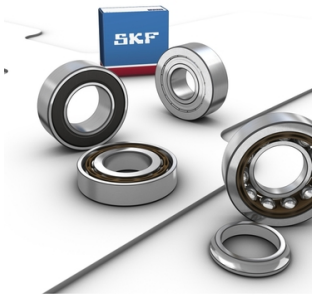

SKF Double row angular contact ball bearing Series: 33

Angular contact ball bearings have raceways in the inner and outer rings that are displaced relative to each other in the direction of the bearing axis. This means that they 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 with increasing contact angle . 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 load is transmitted from one raceway to another, and a line perpendicular to the bearing axis. Angular contact ball bearings are manufactured in a wide variety of designs and sizes. The most commonly used designs are:

- single row angular contact ball bearings
- double row angular contact ball bearings
- four-point contact ball bearings

Double row angular contact ball bearing

Double row angular contact ball bearings correspond in design to two single row angular contact ball bearings arranged back-to-back, but take up less axial space. They can accommodate radial loads as well as axial loads acting in both directions. They provide stiff bearing arrangements and are able to accommodate tilting moments. The bearings are available in a basic open and a sealed design. Basic design bearings of the 32 and 33 series have a 30° contact angle, have an optimized internal geometry to provide high radial and axial load carrying capacity and quiet operation. The bearings are also available capped with a contact seal or shield. Bearings capped on both sides are lubricated for life and are considered virtually maintenance free.

Characteristics

Series: 33
With sealing: No

Application

- Recommended in: Chemical

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
3302 ATN9	15	42	19	30	Plastic	3302TN9-SKF
3303 ATN9	17	47	22.2	30	Plastic	3303TN9-SKF
3304 A	20	52	22.2	30	Steel	3304-SKF
3305 ATN9/C3	25	62	25.4	30	Plastic	3305C3-SKF
3305 ATN9	25	62	25.4	30	Plastic	3305TN9-SKF
3305 A	25	62	25.4	30	Steel	3305-SKF
3305 ANR	25	62	25.4	30	Steel	3305ANR-SKF
3306 ATN9/C3	30	72	30.2	30	Plastic	3306TN9C3-SKF
3306 ATN9	30	72	30.2	30	Plastic	3306TN9-SKF
3306 A/C3	30	72	30.2	30	Steel	3306C3-SKF
3307 ATN9/C3	35	80	34.9	30	Plastic	3307TN9C3-SKF
3307 A/C3	35	80	34.9	30	Steel	3307C3-SKF
3307 A	35	80	34.9	30	Steel	3307-SKF
3308 ATN9	40	90	36.5	30	Plastic	3308TN9-SKF
3308 ATN9/C3	40	90	36.5	30	Plastic	3308C3-SKF
3308 A	40	90	36.5	30	Steel	3308-SKF
3308 A/C3	40	90	36.5	30	Steel	3308JC3-SKF
3309 A/C3	45	100	39.7	30	Steel	3309C3-SKF
3309 A	45	100	39.7	30	Steel	3309-SKF
3309 ANR/C3	45	106.5	39.7	30	Steel	3309ANRC3-SKF
3310 ATN9/C3	50	110	44.4	30	Plastic	3310TN9C3-SKF
3310 A	50	110	44.4	30	Steel	3310-SKF

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
3310 A/C3	50	110	44.4	30	Steel	3310C3-SKF
3310 ANR	50	116.6	44.4	30	Steel	3310NR-SKF
3310 ANR/C3	50	116.6	44.4	30	Steel	3310ANRC3-SKF
3311 A/C3	55	120	49.2	30	Steel	3311C3-SKF
3311 A	55	120	49.2	30	Steel	3311-SKF
3312 A/C3	60	130	54	30	Steel	3312C3-SKF
3312 A	60	130	54	30	Steel	3312-SKF
3313 A/C3	65	140	58.7	30	Steel	3313C3-SKF
3314 A/C3	70	150	63.5	30	Steel	3314C3-SKF
3314 A	70	150	63.5	30	Steel	3314-SKF
3315 A/C3	75	160	68.3	30	Steel	3315C3-SKF
3315 A	75	160	68.3	30	Steel	3315-SKF
3316 A	80	170	68.3	30	Steel	3316-SKF
3318 A	90	190	73	30	Steel	3318-SKF

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