



OIL & GAS
**BEARINGS FOR
STRATEGIC APPLICATIONS**

Solutions for Drilling & Refining



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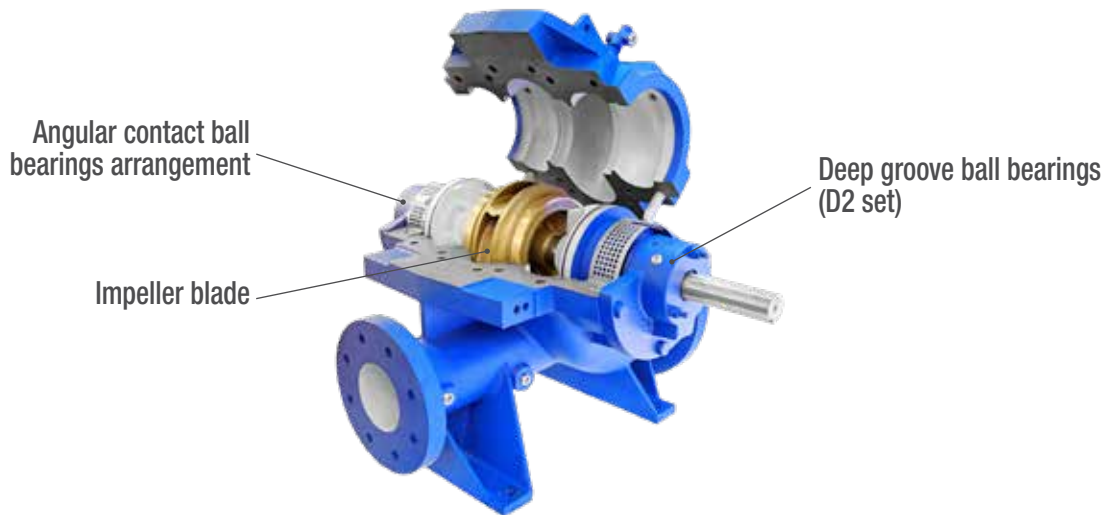
With You

DOWNSTREAM

Pumps and compressors are typical applications from the refining stage.

Bearings used correspond to specific standards.

BEARINGS FOR REFINING PUMPS



API610

The standard for petroleum refining process pump defined by American Petroleum Institute.

The conditions for use and specification of bearings are defined

BEARING LIFE	Bearing “system” life (not for individual bearings) should be <ul style="list-style-type: none"> • over 25000h (Continuous operations) • 16000h (Maximum radial and axial loads and rated speed)
ROTATION	dm N < 500,000 dm [mm]... (bore diameter + Outer diameter)/2 N [min ⁻¹]... Rotational speed
LUBRICATION	Oil lubrication * The housing shall be equipped with an oil leveler.

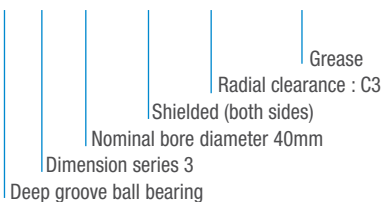


DEEP GROOVE BALL BEARINGS DGBB

- Radial clearance : C3 (Larger than normal clearance)
- Metal cage

DGBB DESIGNATION (example)

6 3 08 ZZ C3 / 5K

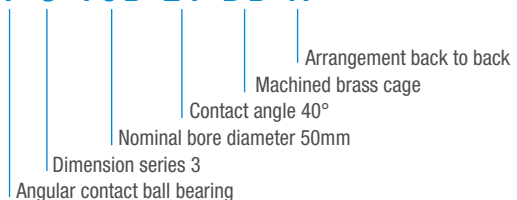


ANGULAR CONTACT BALL BEARING ACBB

- Contact angle 40° (For axial load)
- Arrangement: back to back
- Machined brass cage

ACBB DESIGNATION (example)

7 3 10B L1 DB ..



LONGER LIFE (TMB / TAB BEARINGS)

NTN-SNR RECOMMENDATION

Bearing dimensions are the same as those of standard deep groove ball bearings, but the bearings have special heat treatment that considerably extends life. These bearings are especially effective in countering short life due to the effects of infiltration by dust and other foreign matter.

P/NS FOR EXAMPLE : **6206 / TMB206 / TAB206**

Features are as follows:

- Load rating and speed limit are the same as standard bearings.
- TMB 62 series bearings used instead of standard 63 series bearings enabling lighter, more compact designs.
- **TAB bearings have a 5x longer life in polluted oil compared to standard bearings and 2x longer than TMB bearings.**

CONTAMINATED LUBRICATION >> **TMB**

CONTAMINATED LUBRICATION AND PEELING* >> **TAB**



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