

30208 R

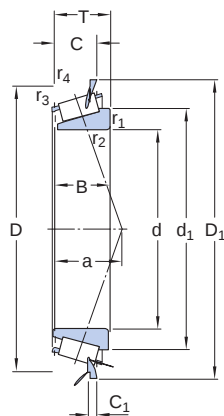


Single row tapered roller bearings with flanged outer rings are easy to locate axially in the housing. Because housing shoulders are not required, the housing bore can be manufactured more easily and cost-effectively. The bearings can accommodate combined radial and axial loads and provide low friction during operation. By combining two tapered roller bearings, a rigid bearing arrangement can be achieved.

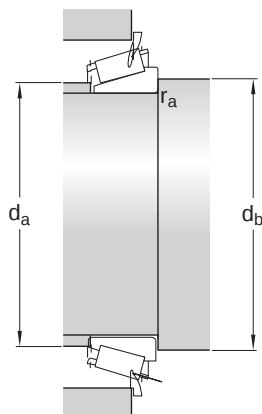
- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components
- Flange on the outer ring for easy location in the housing

Dimension series

3DB



Dimensions		
d	40 mm	Bore diameter
D	80 mm	Outside diameter
T	19.75 mm	Total width
d ₁	≈ 57.55 mm	Shoulder diameter of inner ring
D ₁	85 mm	Diameter of flange
B	18 mm	Width of inner ring
C	16 mm	Width of outer ring
C ₁	4 mm	Width of flange
r _{1,2}	min. 1.5 mm	Chamfer dimension of inner ring
r _{3,4}	min. 1.5 mm	Chamfer dimension of outer ring
a	16.094 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
r_a	max. 1.5 mm	Radius of shaft fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	75.8 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances:
 bearings: Normal and CL7C, CLN
 inch bearings: Normal and CL, deviating width

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit