

53316

Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when configured correctly with a sphered seat washer or a machine component with a sphered surface.



- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enables interference fit
- Sphered housing washers can accommodate initial misalignment



Dimensions		
d	80 mm	Bore diameter
D	140 mm	Outside diameter
H	47.6 mm	Height
H ₁	52 mm	Height bearing including seat washer
d ₁	≈ 140 mm	Outside diameter shaft washer
D ₁	≈ 82 mm	Inner diameter housing washer
D ₂	110 mm	Inner diameter seat washer
D ₃	145 mm	Outside diameter seat washer
C	15 mm	Height seat washer
R	112 mm	Radius sphered housing washer
s	50 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
D_a	max. 110 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	13.7 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	0.79

Associated products

Seat washer	U 316
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit