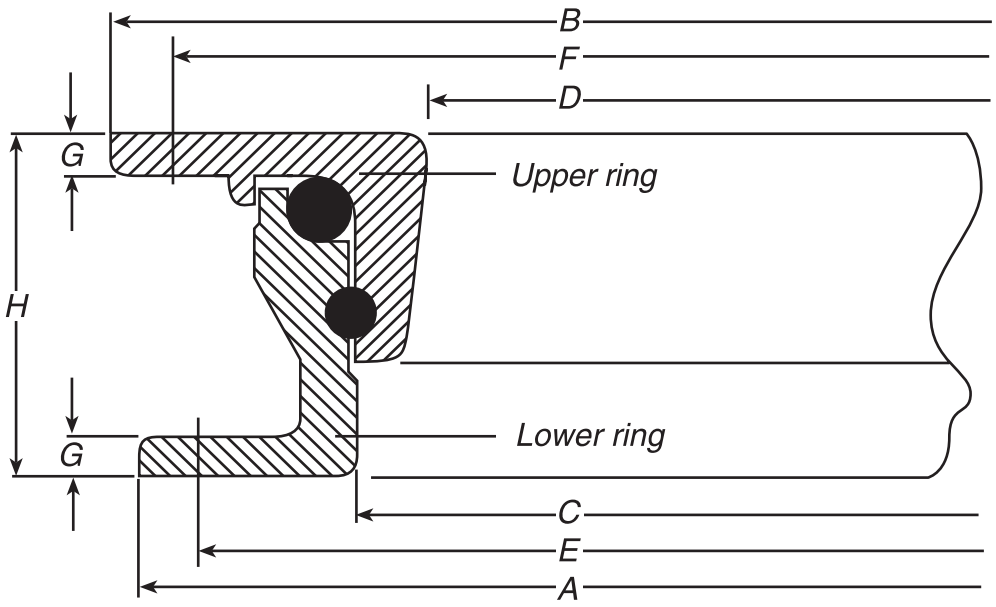
Double Row Ballrace

Model: DK 90/14



Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight approx. kg	Axial load t
DK 90/14	987	1000	871	834	952	966	10	90	72	14

***Note: This ballrace comes undrilled.**

- **Typical Application:**
  Dairy Tankers
  Sludge Tankers
  Tri axle Tipping Trailers

  D-value 162.4 kN
- **BPW turntables are equipped with supporting and retaining ball races between the upper and lower rings.**
- **The axial forces on the turntables are accepted vertically via the large supporting ball bearings.**
- **The horizontal tensile and compressive forces incurred are accepted by the smaller retaining ball bearings.**
- **The moment forces resulting from braking and centrifugal forces, are mutually accepted by the supporting and retaining ball bearings.**
- **The retaining ball bearings connect the upper and lower turntable rings.**
- **The design principle ensures maximum reliability because the active axial and radial forces are distributed between the two ball races of BPW turntables.**
- **The ball races are permanently protected against dirt and dust by a multi-lip seal.**

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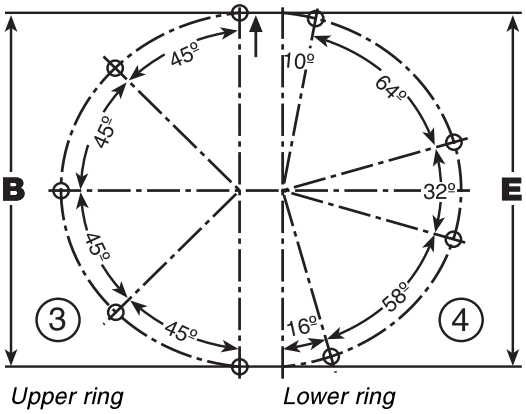
Double Row Ballrace

8 Hole



Drilling Pattern for DK90/14

Design and fitting instructions

- The max. axial load (see table) is the static axial load acting on the turntable. This value is valid in the direction of force only for vehicles with speeds up to 105 km/h. A 25% increase of axial load is permissible for vehicles with speeds up to 30 km/h. The code number, manufacturing details, type of turntable and the permissible axial load are stamped into the type plate.

- The support construction of the lower and upper rings must be levelling and has to be free of torsion because otherwise deformation can occur during use which will endanger the operational dependability. The unevenness of the supporting surfaces should not exceed 1 mm. Larger uneven areas must be compensated. The supporting surface, when divided into at least 4 surface areas of equal size around the circumference, must support at least 50% of the turntable flanges.

- After being bolted together, the turntable flanges must be additionally secured at the top and bottom by at least 4 welded plates (stoppers). This prevents displacement so that the active forces are not solely absorbed by the connecting bolts.

- We recommend the installation of drilled turntables. If retro-drilling work is necessary, drilling chippings and cooling fluids must not be allowed to penetrate the ball races.

- **As the turntables are only slightly lubricated when supplied, they must be lubricated with BPW special longlife grease ECO-Li 91 (lithium complex grease) via the grease nipples prior to initial operation.**

- turntables are not suitable for applications where multiple rotational movements in excess of 360° occur.

Service and maintenance

- The turntable bearing is to be lubricated via the grease nipples with special longlife grease ECO-Li 91 (lithium complex grease) every 25,000 km, but at least after every 3 months (or after every 2 - 3 weeks under extreme operational conditions). The grease must not be mixed with other (calcium-base or sodium-base) lubricants.

- All screw connections are to be inspected at regular intervals for tightness and tightened if necessary.

- Wear Limits
  Radial play - max. of 2.0mm
  Axial play - max. of 3.0mm

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