

DECLARATION OF CONFORMANCE

ZVL bearings are produced in conformity to the catalogue data, to the drawings approved by customers and with following standards:

1) BEARING BOUNDARY DIMENSIONS AND TOLERANCES

Radial bearings (except tapered rolling bearings):

ISO 15	Rolling bearings. Radial bearings. Boundary dimensions, general plan
ISO 1132-1	Rolling bearings. Tolerances. Terms and definitions
ISO 492	Rolling bearings. Radial bearings. Tolerances
ISO 246	Rolling bearings. Cylindrical roller bearings, separate thrust collars. Boundary dimensions
ISO 464	Rolling bearings. Radial bearings with locating snap ring. Dimensions and tolerances
ISO 9628	Insert bearings and eccentric locking collars
STN ISO 582	Rolling bearings. Chamfer dimensions. Maximum values
STN 02 4612	Rolling bearings. Technical requirements
STN 02 4630	Rolling bearings. Single row ball bearings
STN 02 4640	Rolling bearings. Deep groove ball bearings
STN 02 4645	Rolling bearings. Single row angular contact ball bearings
STN 02 4650	Tilting double row ball bearings
STN 02 4665	Angular contact ball bearings double row
STN 02 4670	Rolling bearings. Single row cylindrical roller bearings
STN 02 4705	Rolling bearings. Double row spherical roller bearings

Thrust bearings:

ISO 104	Rolling bearings. Thrust bearings. Boundary dimensions, general plan
ISO 199	Rolling bearings. Thrust bearings. Tolerances
STN 02 4730	Thrust ball bearings. Single and double direction
STN 02 4760	Rolling bearings. Spherical thrust roller bearings – single direction

Sliding bearings:

STN ISO 12240-1	Spherical plain bearings. Part 1: Radial spherical plain bearings
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Bearing accessories:

ISO 2982-1	Rolling bearings.- Accessories - Part 1: Dimensions for adapter sleeve assemblies and withdrawal sleeves
ISO 2982-2	Rolling bearings – Accessories - Part 2: Dimensions for locknuts and locking devices

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ZVL SLOVAKIA, a.s. registered in Commercial Register of District Court in Žilina,
section: Sa, insert No. 295/L

ZVL SLOVAKIA, a.s.
Na stanicu 22, 010 09 Žilina, SR

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2) BEARING INTERNAL CLEARANCE

ISO 5753-1 Rolling bearings. Internal clearance – Part 1: Radial internal clearance for radial bearings
ISO 5753-2 Rolling bearings. Internal clearance – Part 2: Axial internal clearance for four-point contact ball bearings

3) BEARING COMPONENTS MATERIALS

Rings and rolling elements:

STN EN ISO 683-17 Heat-treated steels, alloy steels and free cutting steel.
Part 17: Ball and roller bearing steels

Cages:

STN EN 1982 Copper and copper alloys – ingots and castings
DIN 1623 Cold rolled strip and sheet. Technical delivery conditions. General structural steels
STN EN 10025-2 Hot rolled products of structural steels.
Part 2: Technical delivery conditions for non- alloy structural steels

4) BEARING LOAD RATINGS

ISO 76 Rolling bearings. Static load ratings
ISO 281 Rolling bearings. Dynamic load ratings and rating life
ISO/TR 1281-1 Rolling bearings. Explanatory notes on ISO 281
Part 1: Basic dynamic load rating and basic rating life

ISO/TR 1281-2 Rolling bearings. Explanatory notes on ISO 281.
Part 2: Modified rating life calculation, based on systems approach to fatigue stresses
ISO/TS 16281 Rolling bearings. Methods for calculating the modified reference rating life for universally loaded bearings

In Žilina, 14.08.2020



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