

ISO 24652:2023-09 (E)

Spherical plain bearings - Spherical plain bearings rod ends for hydraulic fluid power cylinders

Contents		Page
Foreword.....		iv
Introduction.....		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Symbols		2
5 Design		3
6 Dimensions		10
6.1 General.....		10
6.2 Spherical plain bearings rod end, welded type.....		11
6.3 Spherical plain bearings rod end, threaded type.....		13
7 Technical requirements		18
7.1 Material and heat treatment.....		18
7.1.1 Inner ring and outer ring.....		18
7.1.2 Rod end housing.....		18
7.1.3 Hexagon socket head cap screws.....		18
7.2 Tolerances.....		18
7.2.1 Rod end inner ring.....		18
7.2.2 Deviation of centre height Δ_{h1s} and Δ_{h2s}		19
7.2.3 Tolerance class for thread.....		20
7.3 Radial internal clearances.....		20
7.4 Surface roughness.....		21
7.5 Surface treatments.....		21
7.6 Rotation and oscillation flexibility.....		21
7.7 Load ratings and life.....		21
Annex A (informative) Symbols/identification codes		22
Annex B (informative) Fixation by retaining rings		23
Annex C (informative) Mounting example — Spherical plain bearing rod end on hydraulic fluid power cylinders		28
Annex D (informative) Surfaces — Features		30
Bibliography		32