INTERNATIONAL STANDARD

ISO 7803

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Commercial road vehicles — Steering ball joints

Véhicules routiers utilitaires - Rotules de direction

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 7803:1987 https://standards.iteh.ai/catalog/standards/sist/aa79635a-d20d-4605-8a9b-d76771ae8cda/iso-7803-1987

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7803 was prepared by Technical Committee ISO/TC 22, Road vehicles. (standards.iteh.ai)

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

| Standards | Standard | Standa

Commercial road vehicles — Steering ball joints

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1 Scope and field of application

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This International Standard specifies the main dimensions of steering ball joints for commercial vehicles.

The ball joint is considered as being a single piece with its 3783-1287 hus this International Standard covers the ball-socket assembly.

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2 Dimensions

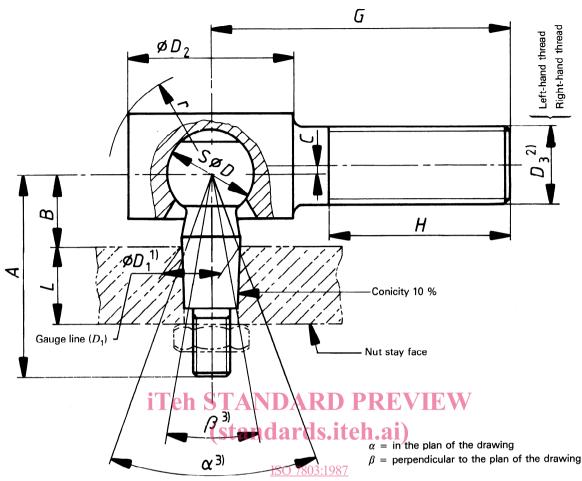
For dimensions, see the figure and table.

3 Designation

Example for the designation of a ball joint of nominal size $S \phi D = 30$ mm, where the angles $\alpha = 40^{\circ}$ and $\beta = 20^{\circ}$:

Ball joint ISO 7803 - 30 - 40 × 20

ISO 7803: 1987 (E)



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Dimensions in millimetres

Nominal size S ϕD	A max.	В	C max.	D ₁ 1) h9 *	D_2 max.	D ₃ ²⁾	<i>G</i> ±2	H min.	<i>L</i> h11	r max.	α ³⁾ min.	β ³⁾ min.
27	66	24	3	20	50	M24×1,5	95	60	24	32	40°	20°
30	71	26	3	22	58	M28 × 1,5	105	65	26	37		
35	81	30	3	26	67	M30×1,5	115	75	30	42		
40	91	34	3	30	74	M30×1,5	120	80	34	47		
50	109	40	3	38	85	M38×1,5	135	85	42	54		

Bore H8.

UDC 629.11.014.52: 629.114.4

Descriptors: road vehicles, commercial road vehicles, ball joints, dimensions, designation.

Price based on 2 pages

¹⁾ To ensure satisfactory operation of the taper drive, it is necessary for the manufacturers to provide such tolerances that the contact between the male and female cones starts from the major diameter and extends to at least 60 % of the contact area.

²⁾ The stud D_3 is available with either right-hand thread or left-hand thread. For ball joints with left-hand thread, the designation should be supplemented by the letters LH.

³⁾ The vehicle manufacturer — on consultation with the ball joint manufacturer — may specify different angles.