

BUREAU OF INDIAN STANDARDS
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Doc No.: PGD 36 (24420)
IS 13614 (Part 1) : 2024
ISO 7241 : 2023

भारतीय मानक मसौदा

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Draft Indian Standard

Hydraulic Fluid Power — Dimensions and Requirements of Quick-Action Couplings
Part 1 Dimensions and Requirements

(Second Revision)

ICS 23.100.40

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Fluid Power Systems Sectional Committee, PGD 36

NATIONAL FOREWORD

This Indian Standard (Second Revision) which is identical with ISO 7241 : 2023 ‘Hydraulic fluid power — Dimensions and requirements of quick-action couplings’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Fluid Power Systems Sectional Committee and approval of the Production and General Engineering Division Council.

This standard was first published in 1995 and subsequently revised in 2021. The second revision of this standard has been undertaken to align with the latest version of ISO 7241. The major changes in this revision are as follows:

- a) Nominal size designations 20, 40, 50 have been replaced by 19, 38, 51 in accordance with ISO 4397;
- b) Impulse pressure test type has been added in accordance with IS 443 (Part 6);
- c) A mistake in Table 7 has been corrected (two values were inverted); and

d) Minor graphical updates have been made.

This Indian Standard is published in two parts. The other part in this series is:

Part 2 Test methods

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 3448 Industrial liquid lubricants — ISO viscosity classification	IS 9466 : 2020/ISO 3448 : 1975 Viscosity classification for industrial liquid lubricants	Identical
ISO 5598 Fluid power systems and components — Vocabulary	IS 10416 : 2024/ISO 5598 : 2020 Fluid power systems and components — Vocabulary (<i>third revision</i>)	Identical
ISO 5675 Agricultural tractors and machinery — General purpose quick-action hydraulic couplers	IS 13732 : 2023/ISO 5675 : 2021 Agricultural tractors and machinery — General purpose quick-action hydraulic couplers (<i>second revision</i>)	Identical
ISO 6803 Rubber or plastics hoses and hose assemblies — Hydraulic-pressure impulse test without flexing	IS 443 (Part 6) : 2022/ISO 6803 : 2017 Methods of test for rubber and plastics — Tubing, hoses and hose assemblies: Part 6 Rubber and plastics hoses and hose assemblies — Hydraulic pressure impulse test without flexing (<i>first revision</i>)	Identical

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

International Standard

Title

ISO 18869

Hydraulic fluid power — Test methods for couplings actuated with or without tools

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*). The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 7241 : 2023 or contact:

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