

**BUREAU OF INDIAN STANDARDS**

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Doc No.: PGD 36 (24562)

IS 13614 (Part 2) : 2024

ISO 18869 : 2017

भारतीय मानक मसौदा

द्रवचालित तरल शक्ति — □□□□□-□□□□□ युग्मन  
भाग 2 परीक्षण विधियाँ

(पहला पुनरीक्षण)

*Draft Indian Standard*

**Hydraulic Fluid Power — Quick-Action Couplings  
Part 2 Test methods**

**(First Revision)**

ICS 23.100.01

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Last date for receipt of comment is  
9 March 2024

Fluid Power Systems Sectional Committee, PGD 36

NATIONAL FOREWORD

This Indian Standard (Part 2) (First Revision) which is identical with ISO 18869 : 2017 'Hydraulic fluid power — Test methods for couplings actuated with or without tools' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Fluid Power System Sectional Committee and approval of the Production and General Engineering Division Council.

This standard was originally published in 1993 by adoption of ISO 7241-2 : 1993. ISO 7241-2 has been superseded by ISO 18869 : 2017. The first revision of this standard has been undertaken to align it with ISO 18869 : 2017.

The major changes in this revision are as follows:

- The scope of the standard has been expanded;
- Fluid loss, specific temperature test and overtightening test for screw have been added;  
and
- Pressure impulse test has been revised.

This standard is published in 2 parts. Other part in this series is:

Part 1      Dimensions and requirements

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 48-2 Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)	IS 3400 (Part 2/Sec 2) : 2023/ISO 48-2 : 2018 Methods of test for rubber, vulcanized or thermoplastic: Part 2 Determination of hardness, Section 2 Hardness between 10 IRHD and 100 IRHD	Identical
ISO 3448 Industrial liquid lubricants — ISO viscosity classification	IS 9466 : 2020/ISO 3448 : 1975 Viscosity classification for industrial liquid lubricants	Identical
ISO 3601-3 Fluid power systems — O-rings — Part 3: Quality acceptance criteria	IS 17547 : 2021/ISO 3601-3 : 2005 Specification for vaccine freezer or combined vaccine freezer and water-pack freezer compression cycle — General requirements and testing methods	Identical
ISO 4411 Hydraulic fluid power — Valves Determination of pressure differential/flow characteristics	IS 13534 : 1992/ISO 4411 : 2019 Hydraulic fluid power — Valves — Determination of pressure differential/flow characteristics	Identical
ISO 5598 Fluid power systems and components — Vocabulary	IS 10416 : 2024/ISO 5598 : 2020 Fluid power systems identical and components — Vocabulary ( <i>third revision</i> )	Identical
ISO 6508-1 Metallic materials — Rockwell hardness test — Part 1: Test method	IS 1586 (Part 1) : 2018/ISO 6508-1 : 2016 Metallic materials — Rockwell hardness test: Part 1 Test method ( <i>fifth revision</i> )	Identical

ISO 6803 Rubber and plastics hoses and hose assemblies — Hydraulic-pressure impulse test without flexing	IS 443 (Part 6) : 2019/ISO 6803 : 2017 Methods of test for rubber and plastics hoses: Part 6 Hydraulic pressure impulse test without flexing	Identical
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The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard

<i>International Standard</i>	<i>Title</i>
ISO 6802	Rubber and plastics hoses and hose assemblies with wire reinforcements — Hydraulic impulse test with flexing
ISO 9227	Corrosion tests in artificial atmospheres — Salt spray tests

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done 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 18869 : 2017 or contact:

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