

**BUREAU OF INDIAN STANDARDS**  
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**Doc No.: PGD 36 (24560)**  
**ISO 19879 : 2021**

*भारतीय मानक मसौदा*

**तरल शक्ति और सामान्य उपयोग के लिए धातु की नली के संयोजक — द्रवचालित तरल  
शक्ति संयोजक यंत्र के लिए परिक्षण पद्धति  
(IS 15277 का पहला पुनरीक्षण )**

*Draft Indian Standard*

**Metallic Tube Connections for Fluid Power and General Use — Test  
Methods for Hydraulic Fluid Power Connections**

*(First Revision of IS 15277)*

ICS 23.040.60; 23.100.40

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Last date for receipt of comment is  
9 March 2024

Fluid Power Systems Sectional Committee, PGD 36

This Indian Standard (First Revision) which is identical with ISO 19879 : 2021 ‘Metallic tube connections for fluid power and general use — Test methods for hydraulic fluid power connections’ 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 originally published in 2002 by adoption of ISO 8434-5 : 1995. ISO 8434-5 has been superseded by ISO 19879 : 2005. The first revision of this standard has been undertaken to align it with the latest version of ISO 19879.

The major changes in this version as follows:

- a) The language used to describe the connector end, and of the proper method for selecting tubes for test assemblies has been clarified; and
- b) Repeated assembly test, leakage test, vibration test and overtightening tests have been added.
- c) Proof test, burst test, cyclic endurance test, vacuum test and cyclic endurance tests have been revised.

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 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 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 6605 Hydraulic fluid power — Test methods for hoses and hose assemblies	IS 17159 : 2019/ISO 6605 : 2017 Hydraulic fluid power — Hoses and hose assemblies — Test methods	Identical
ISO 6743-4 Lubricants, industrial oils and related products (class L) — Classification — Part 4: Family H (hydraulic systems)	IS 11159 (Part 5) : 2019/ISO 6743-4 : 1999 Lubricants, industrial oils and related products (Class L) — Classification: Part 5 Family H (Hydraulic systems) ( <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 10763

Hydraulic fluid power — Plain-end, seamless and welded precision steel tubes — Dimensions and nominal working pressures

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 19879 : 2021 or contact:

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