***भारतीय मानक***

***Indian Standard***

 **IS XXXX : 2024**

 **ISO 10071-1 : 2008**

 **दबाने के लिए उपकरण — बॉल-लॉक पंच**

 **भाग 1 *लघु*** ***सेवा* के लिए बॉल-लॉक पंच**

**Tools for Pressing — Ball-Lock Punches**

 **Part 1 Ball-Lock Punches for Light Duty**

 ICS 25.120.10

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**December 2024 Price Group X**

Metal Forming Machines Sectional Committee, PGD 04

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 10071-1 : 2008 ‘Tools for Pressing — Ball-Lock Punches Part 1: Ball-Lock Punches for Light Duty’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Metal Forming Machines Sectional Committee and approval of the Production and General Engineering Division Council.

This Standard specifies interchangeable dimensions and tolerances, in millimetres, for ball-lock punches for light duty. It is applicable to ball-lock punches with shank diameter sizes from 6 mm up to and including 32 mm, in round, square, rectangular and oblong shapes, for punching holes in steel sheets or other materials, the thickness of which is less than 3 mm.

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

Part 2: Ball-lock punches for heavy duty

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:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 2768-1 : 1989 General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications | IS 2102 (Part 1) : 1993/ ISO 2768-1 : 1989 General tolerances: Part 1 Tolerances for linear and angular dimensions without individual tolerance indications (*third revision*) | *Identical* |
| [ISO](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=34804) 8695 : 2010 Tools for pressing — Punches — Nomenclature and terminology | IS 15300 : 2016/ ISO 8695 : 2010 Tools for pressing — Punches — Nomenclature and terminology (*first revision*) | *Identical* |

The standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

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*)’.

**NATIONAL ANNEX A**

(*National Foreword*)

**A-1 BIS CERTIFICATION MARKING**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act,* 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the standard mark.