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"जानने का अधिकार, जीने का अधिकार"
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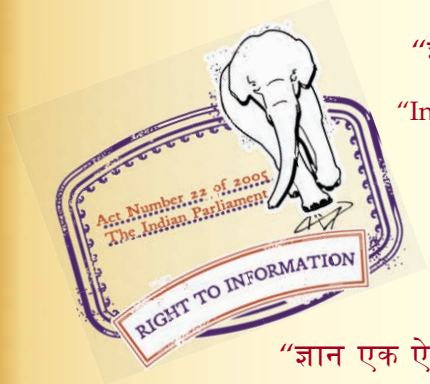
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 11670 (1993): Technical Drawings - Abbreviations and Symbols for Use in Technical Drawings [PGD 24: Drawings]



"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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IS 11670 : 1993
(Reaffirmed 1999)

भारतीय मानक

तकनीकी ड्राइंग — तकनीकी ड्राइंगों में प्रयोग के लिये संक्षिप्त रूप और चिन्ह

(पहला पुनरीक्षण)

Indian Standard

TECHNICAL DRAWINGS — ABBREVIATIONS AND SYMBOLS FOR USE IN TECHNICAL DRAWINGS

(First Revision)

UDC 744·43 : 003·083

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

October 1993

Price Group 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards after the draft finalized by Drawings Sectional Committee had been approved by the Light Mechanical Engineering Division Council.

This standard was first published in 1986. This revision is based on further experience gained in the field of technical drawings both at the national and international level. In this revision some more commonly accepted symbols and abbreviations have been incorporated and a few have been deleted to harmonize this standard with the standards of other developed countries. The deleted words are Across corners, Bearing, Centre to centre, Circumference, Ground level and Manufacture/ing. Symbols and abbreviations which are covered in other standards have not been covered in this standard.

In the preparation of this standard considerable assistance has been derived from BS 308 : Part 1 : 1984 Engineering drawing practice Part 1 Recommendations for general principles issued by the British Standards Institution.

Indian Standard

TECHNICAL DRAWINGS — ABBREVIATIONS AND SYMBOLS FOR USE IN TECHNICAL DRAWINGS

(First Revision)

1 SCOPE

1.1 Covers commonly used abbreviations and symbols for use in technical drawings.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	*Title*
1890 : 1983	Quantities, units and symbols (Parts 0 to 13)
8000 : 1985	Geometrical tolerancing on technical drawings (Parts 1 to 4)
10719 : 1983	Method of indicating surface texture on technical drawings
10720 : 1983	Technical drawings for structural metal works
10722 : 1983	Graphical symbols for elements of kinematic diagrams (Parts 1 to 4)
11158 : 1984	Proportions and dimensions of symbols for geometrical tolerancing in technical drawing
11669 : 1986	General principles of dimensioning on technical drawings

3 TERMINOLOGY

3.1 Abbreviations

Abridged, truncated or contractioned words or group of words.

4 GENERAL

4.1 Abbreviations and symbols are used on drawings to conserve space and time and yet to give precise and clear description. Only commonly used and recommended abbreviations and symbols should be used (*see* Table 1). Others should be avoided and the intended meaning expressed in words. Abbreviations and symbols used by a particular engineering discipline or in a particular industry should only be used with care and reference should be made to the appropriate Indian Standard defining such symbols.

4.2 Abbreviations and symbols are the same in the singular and plural. Full stops are not used except where abbreviation mark a word (i.e. No. in Table 1). Capital letters are shown and are preferred as being more likely to remain legible when microfilmed and reproduced.

4.3 When using abbreviations and symbols in engineering drawings, the following points are to be born in mind:

a) They should be used sparingly only when space saving in a drawing is essential.

b) Short words, such as 'day', 'unit' and 'time' should preferably be written in full.

c) Sometimes one and the same letter symbol may represent more than one term or quantity. In such cases it is advisable not to use such symbols to mean two different terms in one and the same drawing. If it becomes unavoidable, the symbols may be provided with suitable subscript.

Table 1 Recommended Abbreviations

(*Clause* 4.1)

Term	Abbreviation	Term	Abbreviation
Across flats	AF	Maximum	MAX
Alternation	ALT	Maximum material condition	MMC
Approved	APPD	Mechanical	MECH
Approximate	APPROX	Minimum	MIN
Arrangement	ARRGT	Miscellaneous	MISC
Assembly	ASSY	Nominal	NOM
Auxiliary	AUX	North	N
Cast iron	CI	Not to scale	NTS
Centres	CRS	Number	NO
Centre line		Opposite	OPP
on a view	℄	Outside diameter	OD
in a note		Pitch circle diameter	PCD
	CL	Quantity	QTY
Centre of gravity	CG	Quality	QLY
Chamfered, chamfer (in a note)	CHAM	Radius (preceding a dimension)	R
		Radius (in a note)	RAD
Cheese head	CH HD	Reference	REF
Checked	CHKD	Required	REQD
Continued	CONTD	Right hand	RH
Constant	CONST	Round head	RD HD
Counterbore	CBORE	Screw (or screwed)	SCR
Countersunk	CSK	Serial number	SL NO.
Countersunk head	CSK HD	Sheet (referring to drawing sheet)	SH
Cylinder or cylindrical	CYL	Sketch (prefix to a drawing No.)	SK
Diameter (in a note)	DIA	South	S
Diameter	⌀	Specification	SPEC
(preceding a dimension)		Spherical	SPHERE
Dimension	DIM	Spherical diameter (only preceding a dimension)	S ⌀
Drawing	DRG		
East	E	Spherical radius (only preceding a dimension)	SR
Equi-Spaced or Equally spaced	EQUI SP	Spotface	SFACE
External	EXT	Square (in a note)	SQ
Etcetra	etc	Square	□ or ⌧
Figure	FIG.	(preceding a dimension)	
Full indicated movement	FIM	Standard	STD
General	GEN	Symmetrical (in a note)	SYM
Hexagon or hexagonal	HEX	Temperature (in a note)	TEMP
Hexagon head	HEX HD	Thread (in a note)	THD
Horizontal	HORZ	Through (in a note)	THRU
Hydraulic	HYD	Thick	THK
Head	HD		
Indian Standard	IS	Taper on diameter or, width	⌲
Inspection/ed	INSP		
Inside diameter	ID	Tolerance	Tol
Insulation or insulated	INSUL	Typical/typically	TYP
Internal	INT	Undercut	UCUT
Least material condition	LMC	Volume	VOL
Left hand	LH	Weight	WT
Long	LG	West	W
Machine	MC	With reference to or	WRT
Material	MATL	with respect to	

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Doc : No. LM 02 (0075)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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