

इंटरनेट

मानक

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IS 3468 (1991): Pipe nuts [PGD 31: Bolts, Nuts and Fasteners Accessories]



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“Knowledge is such a treasure which cannot be stolen”

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IS 3468 : 1991
(Reaffirmed 1996)

REAFFIRMED 20

भारतीय मानक
पाइप नट — विशिष्ट
(दूसरा पुनरीक्षण)
Indian Standard
PIPE NUTS — SPECIFICATION
(Second Revision)
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Price Group 1

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Bolts, Nuts and Fasteners Accessories Sectional Committee had been approved by the Light Mechanical Engineering Division Council.

This standard was originally published in 1966 and revised in 1975. Following major changes have been made in this revision:

- a) Reference to IS 554 : 1985 'Dimensions for pipe threads where pressure tight joints are required on the threads (*third revision*)' has been deleted since pipe nuts with such threads are not used.
- b) Width across flat dimension has been changed for sizes G 1/8, G 1/4, G 1/2 and G 5/8 from 19, 22, 32 and 32 mm to 18, 21, 34 and 34 mm respectively to be in line with IS 9519 : 1980 'Dimensions for width across flats for hexagonal head bolts and nuts'. These sizes with old across flat dimensions shall be gradually phased out of production and use.
- c) Contents of the standard have been revised and aligned with the latest versions of basic standards related to fasteners.

In preparation of this standard, assistance has been derived from DIN 431 : 1982 'Pipe nuts with thread in accordance with DIN ISO 228 Part 1' 'Pipe threads where pressure tight joints are not made on the threads: Part 1 Designation, dimensions and tolerances' issued by Deutsches Institut für Normung.

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, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

PIPE NUTS — SPECIFICATION

(Second Revision)

1 SCOPE

This standard covers the requirements for pipe nuts in the size range G 1/8 to G 6.

*IS No.**Title*

1367
(Part 14) : 1984 Technical supply conditions for threaded steel fasteners: Part 14 Stainless steel threaded fasteners (*second revision*)

2 REFERENCES

2.1 The following Indian standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
1367 (Part 1) : 1980	Technical supply conditions for threaded steel fasteners: Part 1 Introduction and general information (<i>second revision</i>)	1367 (Part 18) : 1979	Technical supply conditions for threaded steel fasteners: Part 18 Marking and mode of delivery (<i>second revision</i>)
1367 (Part 2) : 1979	Technical supply conditions for threaded steel fasteners: Part 2 Product grades and tolerances (<i>second revision</i>)	2614 : 1969	Methods for sampling of fasteners (<i>first revision</i>)
1367 (Part 7) : 1980	Technical supply conditions for threaded steel fasteners: Part 7 Mechanical properties and test methods for nuts without specified proof loads (<i>second revision</i>)	2643 (Part 1) : 1975	Dimensions for pipe threads for fastening purposes: Part 1 Basic profile and dimensions (<i>first revision</i>)
1367 (Part 10) : 1979	Technical supply conditions for threaded steel fasteners: Part 10 Surface discontinuities on nuts (<i>second revision</i>)	2643 (Part 2) : 1975	Dimensions for pipe threads for fastening purposes: Part 2 Tolerances (<i>first revision</i>)
		2643 (Part 3) : 1975	Dimensions for pipe threads for fastening purposes: Part 3 Limits of sizes (<i>first revision</i>)
		9519 : 1980	Dimensions for width across flats for hexagon head bolts and nuts

3 SPECIFICATION AND REFERENCE STANDARDS

Dimensions		Table 1		
Tolerances	Product grade	B		
	Indian Standard	IS 1367 (Part 2) : 1979		
Threads	Type	Pipe threads		
	Indian Standard	IS 2643 (Parts 1 to 3) : 1975		
Material		Steel	Stainless steel	Brass
Mechanical properties	Property Class	14 H	A2-50	Minimum tensile strength
	Indian Standard	IS 1367 (Part 7) : 1980	IS 1367 (Part 14) : 1984	300 MPa

4 DESIGNATION

4.1 The pipe nuts shall be designated by nomenclature, thread size and number of this standard.

4.1.1 A pipe nut of thread size G6 shall be designated as:

Pipe Nut G6 IS 3468

4.2 When the pipe nuts are manufactured from stainless steel or brass, the word 'stainless steel' or 'Brass' shall be added at the end of the designation.

4.2.1 A pipe nut of thread size G 3/8 and made from brass shall be designated as:

Pipe Nut G 3/8 — IS 3468 — Brass

5 SAMPLING

The sampling and criteria of acceptance shall be in accordance with IS 2614 : 1969.

6 GENERAL REQUIREMENTS

6.1 With respect to surface discontinuities, the pipe nuts shall conform to IS 1367 (Part 10) : 1979.

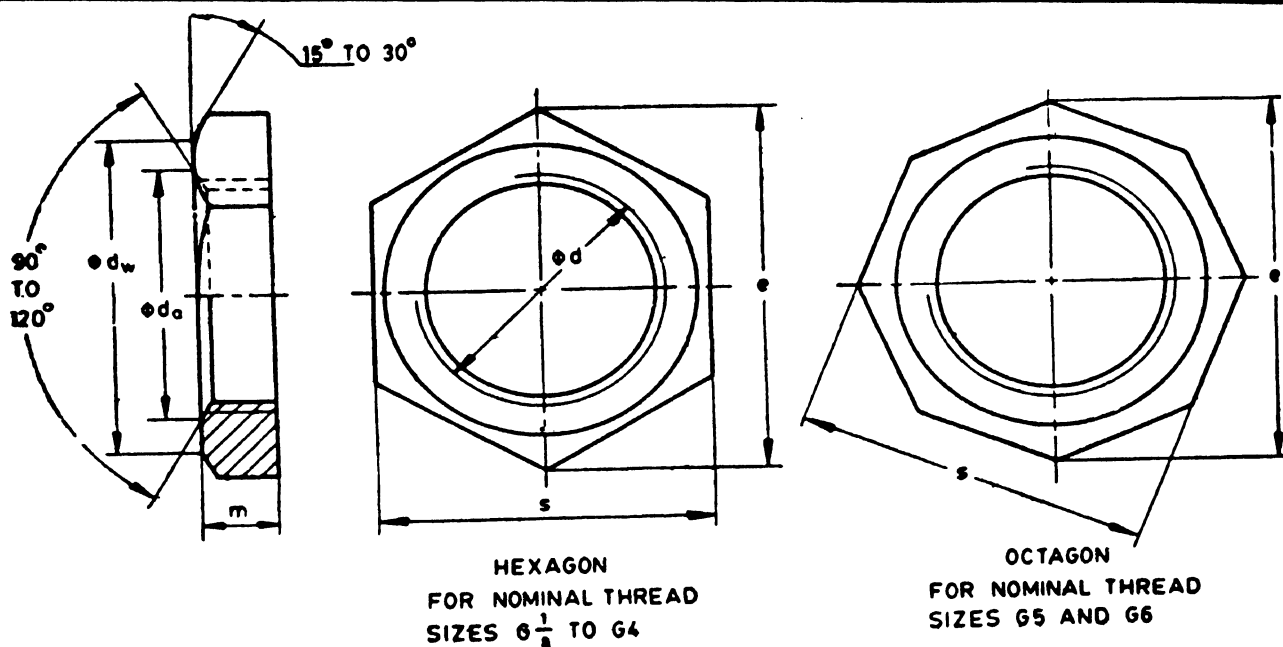
6.2 In respect of requirements not covered in this standard, the nuts shall conform to IS 1367 (Part 1) : 1980.

7 MARKING AND MODE OF DELIVERY

Marking of the pipe nuts and the mode of delivery shall be in accordance with IS 1367 (Part 18) : 1979.

Table 1 Dimensions for Pipe Nuts
(Clause 3)

All dimensions in millimetres.



Thread Size <i>d</i>	<i>d_a</i> Max	<i>d_w</i> Min	<i>e</i> Min	<i>m</i> (h15)		<i>s</i>	
				Max	Min	Max	Min
G 1/8	10.5	16.5	19.85	6	5.52	18	17.57
G 1/4	14.2	19.1	22.78	6	5.52	21	20.16
G 3/8	18	24.8	29.56	6	5.52	27	20.16
G 1/2	22.6	31.3	37.29	8	7.42	34	33
(G 5/8)	24.7	31.3	37.29	8	7.42	34	33
G 3/4	28.6	32.3	39.55	9	8.42	36	35
(G 7/8)	32.6	38	45.20	9	8.42	41	40
G 1	35.9	42.8	50.85	10	9.42	46	45
(G 1 1/8)	40.9	46.5	55.37	10	9.42	50	49
G 1 1/4	45.3	51.1	60.79	11	10.3	55	53.8
G 1 1/2	51.6	55.9	66.44	12	11.3	60	58.8
(G 1 3/4)	58	64.7	76.93	13	12.3	70	68.1
G 2	64.4	69.4	82.60	13	12.3	75	73.1
(G 2 1/4)	71	78.7	93.56	16	15.3	85	82.8
G 2 1/2	81.2	88.2	104.86	16	15.3	95	92.8
G 3	94.9	97.7	116.16	19	18.16	105	102.8
G 4	122	125.9	149.72	22	21.16	135	132.5
G 5	149.5	154.4	183.06	22	21.16	165	162.5
G 6	177	176.1	209.5	25	24.16	190	185.4

NOTE — Sizes shown within brackets are of second preference.

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