



PLANT STANDARD

HPBP TIRUCHIRAPALLI

BPS: 41408

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Based on IS: 2016-1967

PUNCHED WASHERS - TYPE A

1.0 SCOPE

Covers the requirements for punched washers Type A in the size range 1.8 to 78 mm.

2.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and tolerances	Table 1 of this standard	
Material	Suitable Steel	
Finish	Natural finish	
Sampling and Acceptability	Indian Standard	IS: 6821 and IS: 5369
General requirements	Washers shall comply with IS: 2016 in respect of requirements not covered in this standard.	

2.1 Referred Standards (Only the current versions are applicable).

IS: 2016 Specification for plain washers

IS: 5369 General requirements for plain washers and lock washers

IS: 6821 Methods for sampling non-threaded fasteners

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REVISIONS

DATE

APPROVED

STANDARDS SECTION
ENGINEERING AND DEVELOPMENT CENTRE
HPBP TIRUCHIRAPALLI

PREPARED

HPBP TIRUCHY

ISSUED
STANDARDS
ENGG

DATE

DEC 1986



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3.0 DESIGNATION

A punched washer to this standard for bolt/screw size M6 shall be designated as:

3.1 On Drawings:

- i) Material Specification column: IS: 2016-A
- ii) Description column : WASHER PNCHD A 6
- iii) Drawing Number column : 4140806000
- iv) Material code column : 4140800006

3.2 Ordering Description

For placing indents, issuing enquiries and on purchase orders, the ordering description given below shall be followed.

Punched Washer A 6.6* IS: 2016 - Steel

4.0 ADDITIONAL INFORMATION

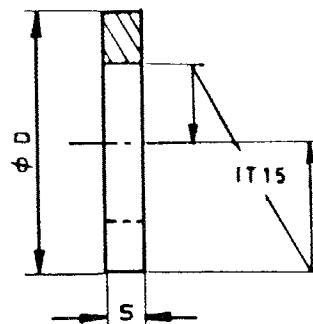
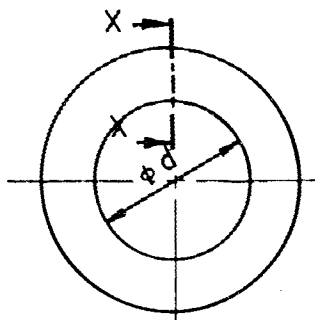
- 4.1 These washers can be used for Product Grade C of general purpose bolts and screws.
- *4.2 While preparing ordering description, the actual hole size (corresponding to bolt/screw size) shall be filled in referring from Table.
- 4.3 Copies of this standard shall be enclosed alongwith the purchase orders for size 56mm and 72 mm.

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TABLE 1 - DIMENSIONS FOR PUNCHED WASHERS



SECTION XX

(All dimensions are in millimetres)

Size d	D Nom	s Nom	For bolt/ screw size	Weight
1.8	4	0.4	M1.6	0.1
2.4	5	0.4	M2	
3.4	7	0.5	M3	
4.5	9	0.8	M4	
5.5	10	1.0	M5	
6.6	12.5	1.6	M6	1.1
9.0	17	1.6	M8	2.1
11	21	2.0	M10	3.9
14	24	2.5	M12	5.9
18	30	3.15	M16	11.1
22	37	3.15	M20	17.1
26	44	4.0	M24	31.0
(30)	50	4.0	(M27)	39.4
33	56	4.0	M30	50.4
(36)	60	5.0	(M33)	71.0
39	66	5.0	M36	87.3
(42)	72	6.0	(M39)	126.0
45	78	6.0	M42	284.0
(48)	85	8.0	(M45)	
52	92	8.0	M48	
61	105	9.0	M56	
78	122	10.0	M72	

NOTE:

- Sizes in brackets are non-preferred.
- Weights are given in kg per 1000 numbers only-
- For stocked sizes refer BPScomponents booklet.