

	CORPORATE STANDARD	AA7169005 Rev. No. 04 PAGE 1 of 3
WASHERS, LOCK, MULTI-TOOTH, TYPE-B (INTERNAL), STEEL		
1 DESIGNATION A multi-tooth, lock washer of type-B of nominal size 5.1 mm and made of steel for right hand threads shall be designated as: 1.1 On drawings i) Material specification column: AA7169005 ii) Description column: WASHER LOCK MT B 5.1 - ST 1.2 On indents Washer Lock Multi-tooth B 5.1-ST: AA7169005 1.3 For issuing enquiries and on purchase orders While issuing enquiries and purchase orders, delete BHEL standard number from the above description and add the information given under clause 2. 2 COMPLIANCE WITH STANDARDS 2.1 Dimensions, Tolerances and General requirements As per IS:5371-1982, Type-B, Table-1 2.2 Material Spring steel Gr.:3 to 6 as specified in IS: 4072 2.3 Heat Treatment and Hardness Lock washers shall be suitably heat treated, so as to result in the finished washer having a hardness in the range of 42-49 HRC. 2.4 Surface Free from burrs-blued. 2.5 Finish Plated as specified in BHEL order.		
Revisions: As per clause 28.2.20 of MOM of WG-F		APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC (F)
Rev. No. 04	Amd. No.	Reaffirmed
Dt: 15-07-2010	Dt:	Year:
Prepared HEEP, Haridwar		Issued Corp. R&D
Dt. of 1 st Issue 01-01-1977		

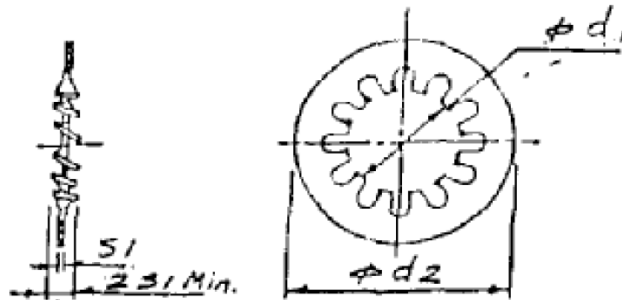
3 NOTE

- 3.1** For multi-tooth lock washer, Type-A (internal) refer to BHEL standard AA7169001.
- 3.2** Washers to this standard would be unplated. Divisions wishing to have plated washers would have to get them plated.
- 3.3** Weights given in this standard are for general reference only and are not for commercial transactions.
- 3.4** For general requirement of washers, refer BHEL standard AA0230408.
- 3.5** When fasteners are to be tested with in BHEL, the following sampling plan based on IS:6821 (Table-1) shall be followed for physical properties.

LOT SIZE	SAMPLE SIZE	ACCEPTANCE NOS
Up to 1000	5	0
1001-3000	8	0
3001-10000	13	0
10001-35000	20	0
Over 35000	32	1

4 REFERRED STANDARDS (Latest publications including amendment):

- 1) IS: 4072
- 2) IS: 6821
- 3) AA0230408
- 4) AA7169001



Note:

- 1) Corporate sub-code Nos. are shown in the Table-1.
- 2) Weights have been shown in kg per 1000 Nos
- 3) Sizes marked 'X' are only for Hex. head bolts

Table 1

All Dimensions are in mm

NOMINAL SIZE d ₁ H13	OUTSIDE DIAMETER d ₂ H14	THICKNESS S ₁	NUMBER OF TEETH	SUITABLE FOR SCREWS	SUB CODE	WEIGHT
1.7	3.6	0.3	6	M 1.6		
2.2	4.5	0.3	6	M 2		
2.7	5.5	0.4	6	M 2.5		
3.2	6	0.4	6	M 3		
4.3	8	0.5	8	M 4	018	0.04
5.1	9	0.5	8	M 5	026	0.06
5.3	10	0.6	8	M 5		
6.4	11	0.7	8	M 6	034	0.12
8.2	14	0.8	8	M 8	069	0.57
8.4	15	0.8	8	M 8		
10.5	18	0.9	9	M 10	042	0.43
12.5	20.5	1	10	M 12	050	0.61
16.5	26	1.2	12	M 16		
21	33	1.4	12	M 20		
25	38	1.5	14	M 24		
31	48	1.6	14	M 30		