

INCH-POUND

MIL-DTL-12133/1D
19 October 2015
SUPERSEDING
MIL-W-12133/1C
17 June 1994

DETAIL SPECIFICATION SHEET

WASHER, SPRING TENSION, BELLEVILLE SPRING, SPRING STEEL

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and procurement specification MIL-DTL-12133.

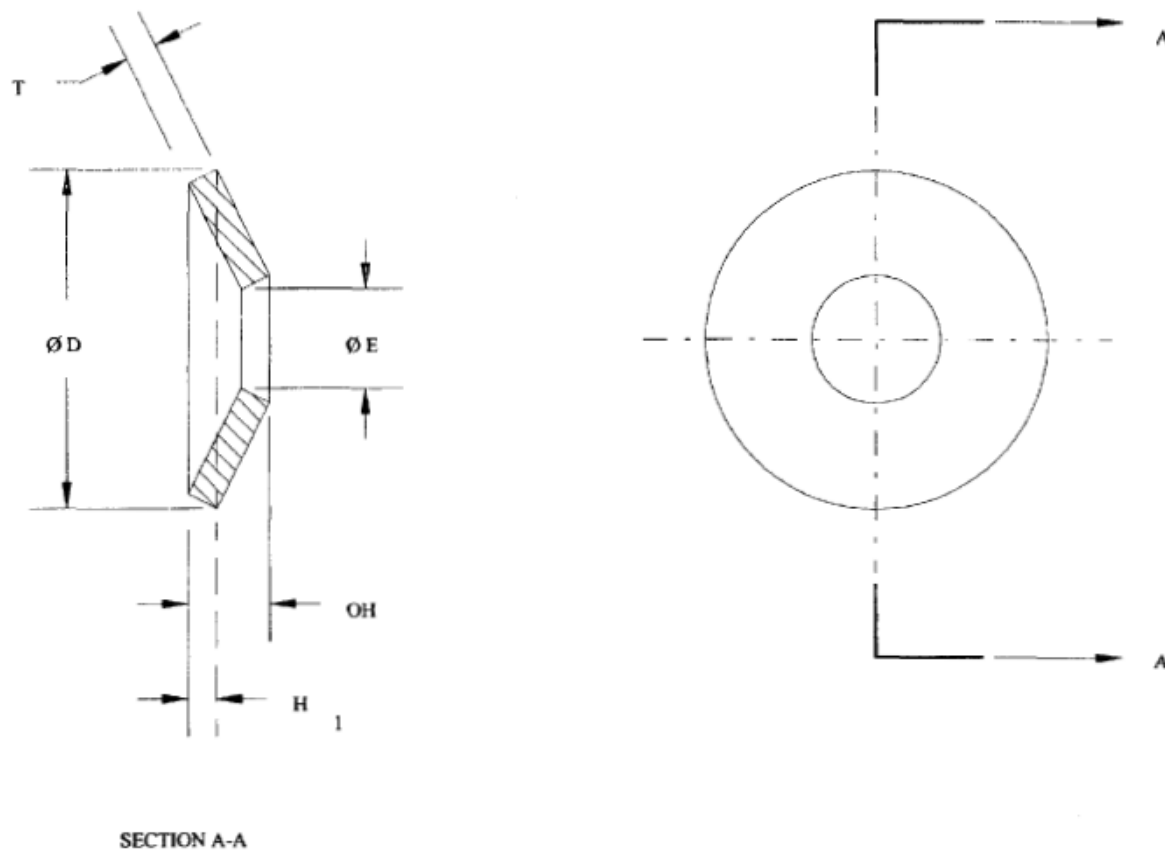


FIGURE 1. WASHER, SPRING TENSION, BELLEVILLE SPRING, SPRING STEEL.

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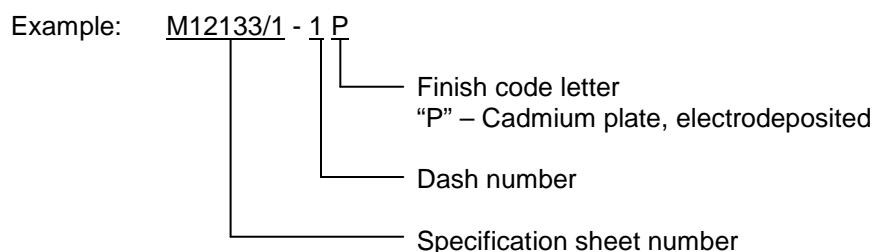
TABLE I. DASH NUMBERS AND DIMENSIONS.

Dash No.	Ø D		Ø E		T Thickness		OH Free Height		H1 Test Deflection (Ref)	Load At H1 (Lbs) ± 10%	Bolt Diameter (Ref)
	OD	Tol +.000	ID	Tol -.000	Nom	Tol	OD	Tol			
62	.250	-.015	.125	+.015	.009	±.001	.017	±.003	.006	14	.112
1	.250	-.015	.125	+.015	.013	±.001	.020	±.003	.005	37	.112
69	.315	-.015	.125	+.010	.012	±.001	.022	±.003	.0072	26	.112
60	.281	-.015	.138	+.015	.015	±.001	.023	±.003	.006	53	.138
2	.312	-.015	.156	+.015	.017	±.001	.025	±.003	.006	63	.138
61	.343	-.015	.164	+.015	.016	±.001	.023	±.003	.005	35	.164
63	.375	-.015	.195	+.015	.020	±.001	.030	±.003	.008	96	.190
3	.375	-.015	.195	+.015	.015	±.001	.027	±.003	.009	49	.190
4	.500	-.020	.258	+.020	.020	±.001	.035	±.003	.011	78	.250
64	.500	-.020	.258	+.020	.018	±.001	.034	±.003	.012	64	.250
5	.625	-.020	.317	+.020	.032	±.002	.051	±.005	.014	252	.313
65	.750	-.020	.382	+.020	.028	±.002	.050	±.005	.017	144	.375
6	.750	-.020	.382	+.020	.032	±.002	.054	±.005	.016	203	.375
66	.750	-.020	.382	+.020	.040	±.002	.059	±.005	.014	334	.438
68	.875	-.020	.442	+.010	.045	±.002	.067	±.005	.011	286	.438
7	1.000	-.025	.445	+.025	.035	±.002	.067	±.005	.024	218	.438
67	1.000	-.025	.505	+.025	.050	±.002	.075	±.005	.019	493	.500
8	1.000	-.025	.512	+.025	.039	±.002	.075	±.005	.027	369	.500
9	1.102	-.025	.512	+.025	.049	±.002	.083	±.005	.025	503	.500
10	1.375	-.030	.637	+.025	.059	±.002	.102	±.008	.032	724	.625
11	1.500	-.030	.761	+.030	.059	±.002	.114	±.008	.041	861	.750
12	1.500	-.030	.761	+.030	.078	±.002	.121	±.008	.032	1431	.750
13	1.750	-.030	.880	+.030	.085	±.003	.128	±.008	.032	1333	.875
14	2.000	-.040	1.016	+.030	.079	±.003	.138	±.008	.044	1184	1.000
15	2.375	-.040	1.016	+.030	.098	±.003	.177	±.008	.059	2020	1.000

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REQUIREMENTS:

1. Material. Spring steel (see MIL-DTL-12133).
2. Protective coating and surface treatment. Cadmium plate, mechanically or electrodeposited, mechanically deposited zinc, or plain, as applicable (see requirement 3 herein) in accordance with MIL-DTL-12133.
3. Part number: The part number consists of the letter "M", the basic number of this specification sheet, followed by a dash number taken from Table I and a finish code letter, "P" for Cadmium plate (electrodeposited), "M" for Cadmium plate (mechanically deposited), "Z" for Zinc (mechanically deposited), or No Code for Plain.



M12133/1-1P Indicates – Washer, Spring Tension, Belleville Spring, Spring Steel, .250 OD, .125 ID, .013 thick, .020 free height; Cadmium plate, electrodeposited.

NOTES:

1. All dimensions are in inches. See Table I herein for tabulated data.
2. CHANGES FROM PREVIOUS ISSUE. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

MILITARY INTEREST

Custodians:

Army - AR
Navy - OS
Air Force - 99

Preparing activity:

DLA - IS

(Project 5310-2015-006)

Review activities:

Army - CR, MI
Navy – AS, MC, YD
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.