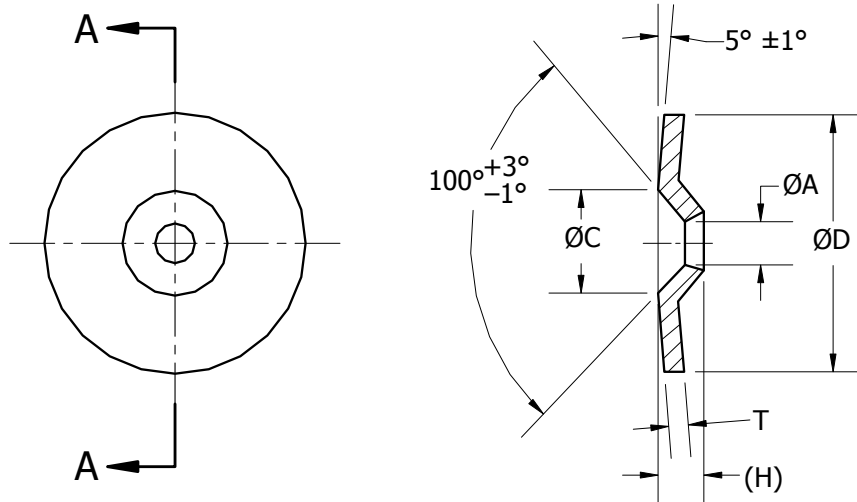


FED. SUPPLY CLASS

5310



SECTION A - A

TABLE I – DIMENSIONS

NA0140 (CARBON STEEL)	NA0141 (CRES)	NA0142 (ALUMINUM ALLOY 5052)	NA0143 (ALUMINUM ALLOY 2024)	NA0144 (TITANIUM)	BOLT SIZE (REF)	ØA +0,80 -0,00	ØD +0,00 -0,80	ØC +0,30 -0,00	(H)	T
		E030			3	3,28	9,00	6,00	1,29	0,20
L030	L030		L030	L030					1,45	0,40
-030	-030		-030	-030					1,60	0,60
		E040			4	4,28	12,00	8,00	1,71	0,20
L040	L040		L040	L040					1,87	0,40
-040	-040		-040	-040					2,02	0,60
		E050			5	5,35	15,00	10,00	2,10	0,20
L050	L050		L050	L050					2,26	0,40
-050	-050		-050	-050					2,41	0,60
		E060			6	6,50	18,00	12,00	2,46	0,20
L060	L060		L060	L060					2,61	0,40
-060	-060		-060	-060					2,77	0,60
		E080			8	8,50	24,00	16,00	3,30	0,20
L080	L080		L080	L080					3,46	0,40
-080	-080		-080	-080					3,61	0,60
		E100			10	10,57	30,00	20,00	4,11	0,20
L100	L100		L100	L100					4,26	0,40
-100	-100		-100	-100					4,42	0,60
		E120			12	12,64	36,00	24,00	4,92	0,20
L120	L120		L120	L120					5,07	0,40
-120	-120		-120	-120					5,23	0,60

① COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NONE	TITLE WASHER, DIMPLED, 100°, METRIC	CLASSIFICATION PART STANDARD NA0140 THRU NA0144



Documents

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MATERIAL:

CARBON STEEL: 1095 (UNS G10950) PER AMS5121, ~~MIL-S-7947~~, CONDITION 1 OR 2.
 ALUMINUM ALLOY: 2024-0 (UNS A92024), T3 OR T4 ALCLAD PER ~~QQ-A-250/5~~ AMS-QQ-A-250/5.
 5052-0 (UNS A95052) PER ~~QQ-A-250/8~~ AMS-QQ-A-250/8.
 CRES: A286 (UNS S66286) PER AMS5525.
 TITANIUM: (UNS R50700) COMMERCIALLY PURE PER ~~AMS-T-9046~~, TYPE I, COMPOSITION B CP-1 PER
 AMS4901.

HEAT TREATMENT:

CARBON STEEL: 42-47 HRC.
 ALUMINUM ALLOY: 2024-0, SOLUTION TREAT AND AGE TO T62 OR T72.
 2024-T3 AND T4, RE-SOLUTION TREAT AND AGE TO T62 OR T72.
 5052-0, NONE.
 CRES: PRECIPITATION HEAT TREAT TO 965 MPa MINIMUM ULTIMATE TENSILE STRENGTH.
 TITANIUM: NONE.

FINISH:

CARBON STEEL: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 (8-14 µm THICK). WITHIN 4
 HOURS AFTER PLATING, BAKE AT 191 ± 14 °C FOR 23 HOURS.
 ALUMINUM ALLOY: 2024, ANODIZE PER MIL-A-8625.
 5052, ANODIZE PER MIL-A-8625 OR CHEMICALLY TREAT PER MIL-DTL-5541, DYE
 GREEN.
 CRES: PASSIVATE PER AMS2700, METHOD 1, CLASS 4.
 TITANIUM: NONE.

CODE:

BASIC NUMBER DESIGNATES MATERIAL.
 DASH NUMBER INDICATES NOMINAL SIZE IN 1/10TH MILLIMETER INCREMENTS.

EXAMPLE OF PART NUMBER:

NA0141 E 030 = 0,20 mm THICK CRES DIMPLED WASHER FOR USE WITH 3 mm SCREW.

USE WITH THIS SIZE SCREW (EX: 0,030 = 3mm SCREW)

LETTER "E" PREFIX TO DASH NUMBER FOR 0,20 mm THICKNESS.
 LETTER "L" PREFIX TO DASH NUMBER FOR 0,40 mm THICKNESS.
 DASH "-" PREFIX TO DASH NUMBER FOR 0,60 mm THICKNESS.

NA0140 = CARBON STEEL
 NA0141 = CRES
 NA0142 = 5052 ALUMINUM ALLOY
 NA0143 = 2024 ALUMINUM ALLOY
 NA0144 = TITANIUM

REVISION

1

NA0140 THRU NA0144
 SHEET 2

① COMPLETELY REVISED



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