

FED. SUPPLY CLASS

5325

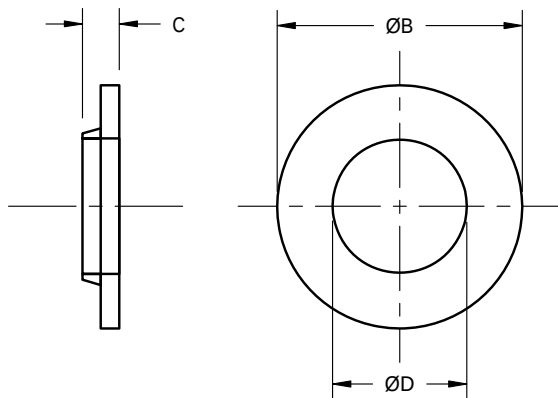


FIGURE 1 – PLAIN WASHER

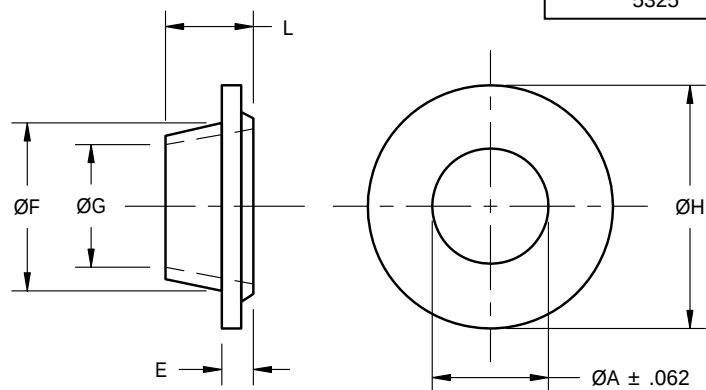


FIGURE 2 – PLAIN GROMMET

TABLE I – PLAIN GROMMET AND PLAIN WASHER DIMENSIONS

ASSY DASH NO.			DETAIL PART DASH NO.						TRADE SIZE NO.	ØA AFTER INSERTION	ØB ±.005	C ±.005	ØD ±.005	E ±.005	ØF ±.005	ØG ±.005	ØH ±.005	L ±.005
AL	BRASS		GROMMET			WASHER												
			AL	BRASS		AL	BRASS											
	NO FINISH	PLATED		NO FINISH	PLATED		NO FINISH	PLATED										
A20	B20	BP20	GA20	GB20	GBP20	WA20	WB20	WBP20	00	.156	.460	.029	.216	.035	.218	.176	.425	.170
A10	B10	BP10	GA10	GB10	GBP10	WA10	WB10	WBP10	0	.250	.546	.030	.286	.035	.290	.240	.545	.210
A1	B1	BP1	GA1	GB1	GBP1	WA1	WB1	WBP1	1	.312	.700	.041	.359	.035	.375	.286	.687	.220
A2	B2	BP2	GA2	GB2	GBP2	WA2	WB2	WBP2	2	.375	.835	.045	.453	.035	.475	.362	.815	.250
A3	B3	BP3	GA3	GB3	GBP3	WA3	WB3	WBP3	3	.438	.955	.050	.530	.050	.545	.433	.970	.345
A4	B4	BP4	GA4	GB4	GBP4	WA4	WB4	WBP4	4	.500	1.062	.050	.585	.046	.630	.486	1.050	.420
A5	B5	BP5	GA5	GB5	GBP5	WA5	WB5	WBP5	5	.625	1.205	.055	.740	.045	.785	.594	1.220	.375

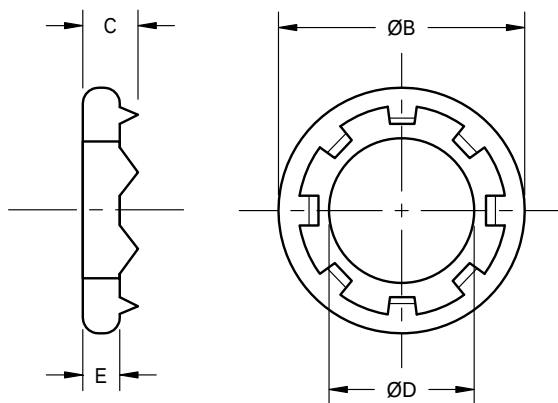


FIGURE 3 – SPUR WASHER

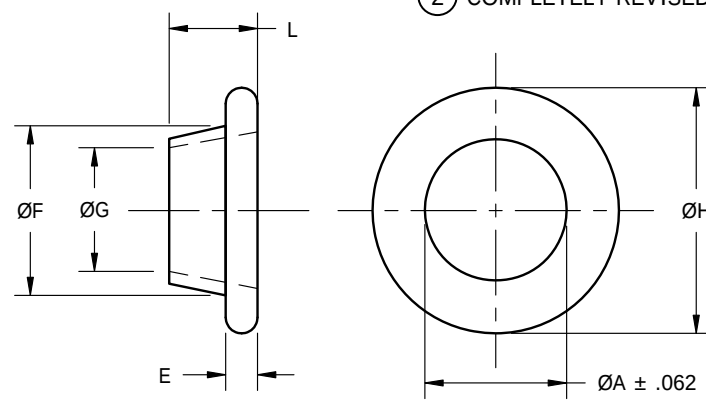


FIGURE 4 – ROLLED RIM GROMMET

② COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS20230, REVISION D. PART NUMBERS REMAIN MS20230.

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
NASM16491	

CUSTODIAN	
NATIONAL AEROSPACE STANDARDS COMMITTEE	
TITLE	
GROMMET, METALLIC, PLAIN AND ROLLED RIM, WITH WASHER, TYPE I AND TYPE III	

REVISION	2
CLASSIFICATION PART STANDARD	
NASM20230	
SHEET 1 OF 3	

TABLE II – ROLLED GROMMET AND SPUR WASHER DIMENSIONS

ASSY DASH NO.		DETAIL PART DASH NO.				TRADE SIZE NO.	ØA AFTER INSERTION	ØB ±.005	C ±.005	ØD ±.005	E ±.005	ØF ±.005	ØG ±.005	ØH ±.005	L ±.020
BRASS		GROMMET		WASHER											
		BRASS		BRASS											
NO FINISH	PLATED	NO FINISH	PLATED	NO FINISH	PLATED										
BS10	BPS10	GBS10	GBPS10	WBS10	WBPS10	0	.250	.645	.150	.345	.060	.375	.270	.670	.235
BS1	BPS1	GBS1	GBPS1	WBS1	WBPS1	1	.312	.790	.150	.455	.065	.480	.380	.790	.275
BS2	BPS2	GBS2	GBPS2	WBS2	WBPS2	2	.375	.890	.156	.512	.070	.532	.425	.890	.315
BS3	BPS3	GBS3	GBPS3	WBS3	WBPS3	3	.438	.970	.190	.537	.075	.545	.430	.970	.330
BS4	BPS4	GBS4	GBPS4	WBS4	WBPS4	4	.500	1.120	.205	.645	.080	.695	.560	1.120	.405
BS5	BPS5	GBS5	GBPS5	WBS5	WBPS5	5	.625	1.270	.225	.777	.085	.800	.600	1.285	.455

MATERIAL :

BRASS OR ALUMINUM: SEE PROCUREMENT SPECIFICATION.

FINISH:

ALUMINUM: ANODIZE IN ACCORDANCE WITH MIL-A-8625.

BRASS: NO FINISH.

CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.

NICKEL PLATE IN ACCORDANCE WITH AMS2403, .0002 MINIMUM THICKNESS.

CODE:

ADD DASH NUMBER FROM TABLES TO BASIC NUMBER FOR DETAIL PART OR ASSEMBLY.

AN ASSEMBLY SHALL CONSIST OF ONE GROMMET AND WASHER OF THE SAME MATERIAL AND FINISH.

ADD "N" TO END OF PLATED BRASS DASH NUMBERS ONLY FOR NICKEL PLATING.

EXAMPLE OF PART NUMBER:

MS20230A20 = SIZE 00, PLAIN GROMMET ASSEMBLY, ALUMINUM, ANODIZED, CONSISTING OF A MS20230GA20 GROMMET AND A MS20230WA20 WASHER.

MS20230GBPS2 = SIZE 2, ROLLED RIM GROMMET, BRASS, CADMIUM PLATED.

MS20230WBPS2 = SIZE 2, SPUR WASHER, BRASS, CADMIUM PLATED.

MS20230BPS2 = SIZE 2, ROLLED RIM GROMMET ASSEMBLY, BRASS, CADMIUM PLATED, CONSISTING OF A MS20230GBPS2 GROMMET AND A MS20230WBPS2 WASHER.

MS20230BPS2N = SIZE 2, ROLLED RIM GROMMET ASSEMBLY, BRASS, NICKEL PLATED, CONSISTING OF A MS20230GBPS2N GROMMET AND A MS20230WBPS2N WASHER.

NOTES:

- (1) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS +.010.
- (2) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.

REVISION

2

② COMPLETELY REVISED


ASME 2020
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