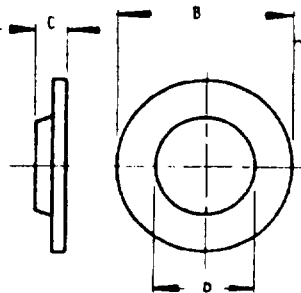


UNES SYMBOLS

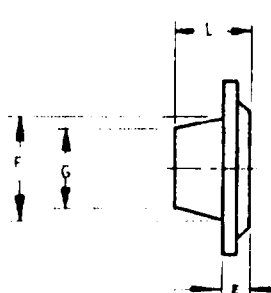
REVIEW SYMBOLS:
NAVY - AS
USAF - 02

Review/Use information is current as of the 45 document
For future coordination of changes to this document draft circulation
should be based on the information in the current DODISS.

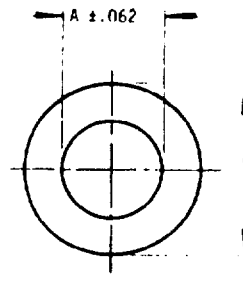
APPROVED FOR PUBLIC RELEASE. DISTRIBUTION IS UNLIMITED.
Standard is approved by the Department of the Air Force
and the Naval Air Systems Command and is mandatory for use by these
activities. All other military activities are required to employ
this standard where suitable.



PLAIN WASHER



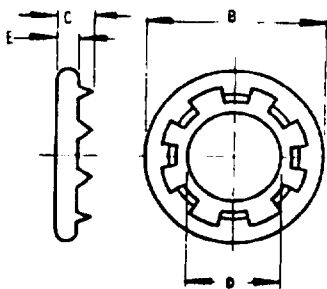
PLAIN GROMMET



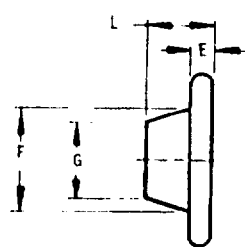
PLAIN GROMMET

FED. SUP CLASS
5325

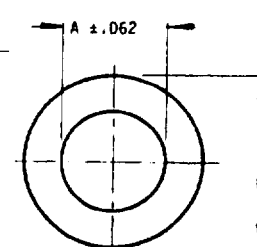
ASSY DASH NO.			DETAILED PART NO.						TRADE SIZE NO.	A DIA AFTER INSERTION	B +.005 DIA	C +.005	D +.005 DIA	E +.005	F +.005 OD	G +.005 ID	H +.005 OD	L +.005
AL	BRASS		GROMMET		WASHER													
	PLAIN	PLATED	AL	BRASS	AL	BRASS												
				PLAIN	PLATED		PLAIN	PLATED										
A20	B20	BP20	GA20	GB20	GBP20	WA20	WB20	WBP20	00	.156	.460	.029	.218	.035	.218	.176	.425	.170
A10	B10	BP10	GA10	GB10	GBP10	WA10	WB10	WBP10	0	.250	.546	.030	.286		.290	.240	.545	.210
A1	B1	BP1	GA1	GB1	GBP1	WA1	WB1	WBP1	1	.312	.700	.041	.359		.375	.286	.687	.220
A2	B2	BP2	GA2	GB2	GBP2	WA2	WB2	WBP2	2	.375	.835	.045	.453		.475	.362	.815	.250
A3	B3	BP3	GA3	GB3	GBP3	WA3	WB3	WBP3	3	.438	.955	.050	.530		.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



SPUR WASHER



SPUR GROMMET



ROLLED RIM GROMMET

ASSY DASH NO.		DETAILED PART NO.				TRADE SIZE NO.	A DIA AFTER INSERTION	B +.005 OD	C +.005	D +.005 ID	E +.005	F +.005 OD	G +.005 ID	H +.005 OD	L +.020
		GROMMET		WASHER											
BRASS		BRASS		BRASS											
PLAIN	PLATED	PLAIN	PLATED	PLAIN	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		.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, CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2 ONLY WHEN SPECIFIED.

EXAMPLES OF PART NUMBERS: MS20230A20 - NO. 00 SIZE, PLAIN GROMMET ASSEMBLY, ALUMINUM.

MS20230BPS10 - NO. 0 SIZE, SPUR GROMMET ASSEMBLY, BRASS, CADMIUM PLATED.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010.

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

INTERCHANGEABILITY RELATION WITH AN230 GROMMETS: MS20230 GROMMETS AND AN230 GROMMETS OF LIKE DASH NUMBERS ARE UNIVERSALLY, FUNCTIONALLY, AND DIMENSIONALLY INTERCHANGEABLE.

① REINSTATE

AFTER 28 MARCH 1969

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

① CANCELED AFTER 14 OCTOBER 1966 - USE MIL-G-16491.

P.A. NAVY - AS Other Com USAF - 02	TITLE GROMMETS, METALLIC, PLAIN AND SPUR, WITH WASHERS, TYPE I AND TYPE III	MILITARY STANDARD	
		MS20230(ASG)	
PROCUREMENT SPECIFICATION MIL-G-16491	SUPERSEDES: AN230	SHEET	OF

APPROVED 19 AUG 57
REVIEWED 7 OCT 59
① JAN 64
① OCT 66
① 28 MAR 69