



REQ. SUP CLASS  
53GP

(A)

SEE VIEW D

(A) INACTIVE FOR DESIGN AFTER 29 Aug 1969  
NO SUPERSEDING MS STANDARD

(B) CANCELLED AFTER 15 SEPT 1981.  
NO SUPERSEDING STANDARD.

ENLARGED VIEW D

NOMINAL HEAD SIZE	MAXIMUM MATERIAL CONDITION			MINIMUM MATERIAL CONDITION			
	A DIA MAX	B DIA MAX	C DIA MAX	A DIA THEO	A DIA MIN	B DIA MIN	C DIA MIN
.1875	.218	.195	.197	.2100	.208	.177	.183
.2188	.254	.228	.229	.2460	.243	.208	.213
.2500	.290	.260	.262	.2818	.278	.237	.245
.2812	.326	.292	.294	.3175	.313	.268	.275
.3125	.361	.325	.326	.3533	.348	.299	.308
.3750	.434	.389	.392	.4261	.420	.359	.370
.4375	.507	.454	.458	.4977	.491	.419	.431
.5000	.580	.520	.524	.5693	.562	.481	.494
.5625	.651	.585	.588	.6420	.633	.541	.556
.6250	.724	.649	.654	.7136	.704	.602	.619
.6875	.797	.714	.720	.7852	.774	.664	.681
.7500	.868	.778	.784	.8568	.845	.724	.743
.8125	.940	.844	.849	.9295	.917	.785	.805
.8750	1.013	.908	.915	1.0011	.988	.846	.868
.9375	1.086	.973	.980	1.0739	1.059	.907	.931
1.0000	1.157	1.037	1.045	1.1455	1.130	.968	.993
1.0625	1.229	1.102	1.110	1.2170	1.200	1.028	1.055
1.1250	1.301	1.166	1.176	1.2898	1.272	1.090	1.118
1.1875	1.374	1.232	1.241	1.3614	1.343	1.151	1.181
1.2500	1.446	1.296	1.308	1.4341	1.415	1.211	1.242
1.3125	1.518	1.361	1.371	1.5057	1.485	1.273	1.306
1.3750	1.590	1.426	1.436	1.5773	1.556	1.334	1.369
1.4375	1.663	1.490	1.502	1.6501	1.628	1.394	1.430
1.5000	1.735	1.555	1.567	1.7217	1.698	1.456	1.494

NOTE: VARIATIONS AND ERRORS OF POSITION OF THE 12 POINTS ARE PERMITTED, PROVIDING THE ACTUAL PROFILE FALLS WITHIN THE MAX. AND MIN. BOUNDARIES SHOWN.

P.A. NAVY - AS Other Cust	TITLE WRENCHING CONFIGURATION, 12-POINT, DESIGN STANDARD FOR	MILITARY STANDARD MS90446(AS)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 1 OF 1