

Review activities: NAVY - AS  
USAF - B2

This standard is approved by the Department of Defense and is mandatory on all activities. Substitution for all engineering and design applications and for replacement shall be made from this document.

P.A. 82

Other Code  
NAVY - AS  
USAF - B2

PROCUREMENT SPECIFICATION  
NONE

TITLE

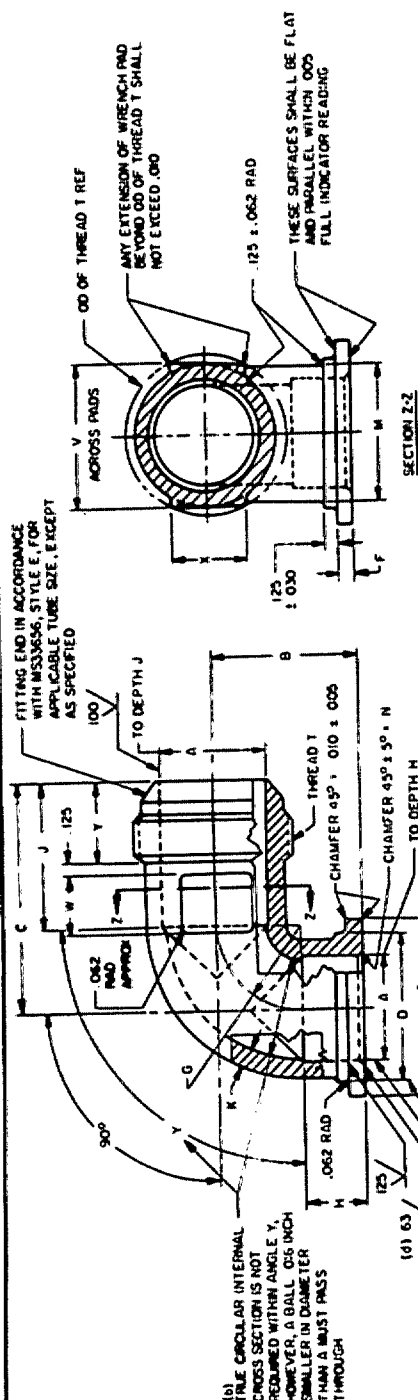
ELBOW, FLARED TUBE, FLANGED, SWIVEL, 90°

SUPERSEDES: AN762

DD FORM 672-1

(coordination)

EDITION OF 1 SEP 57 MAY BE USED



DASH NO	TUBING OD	THREAD T REF	(C) A	B	C	IC1D	IC1E	F	G	H	J	K		M	N	V	W	X	Y	WEIGHT MAX		
												MIN	MAX							AL	STEEL	
STEEL	AL	ALLOY																				
-12	-012		.509	1.56	1.930	9.18	1.250	5.94	5.94	5.62	1.406	125	.84	.922	.649	.89	500	.562	724	12	34	
-16	-016		.844	1.281	2.125	1.88	1.500	156	719	6.25	1.900	141	1.76	1.172	.904	1.156	562	625	771	18	50	
-20	-020		1.078	1.500	2.375	1.500	1.844		875	6.88	1.648	156	2.21	1.484	1.130	1.438	625	750	810	32	90	
-20-24	-020-24																					
-24	-024		1.312	1.688	2.688	1.750	2.125		1.000	7.50	2.062	172	2.34	1.734	1.372	1.710	.680		943	45	126	
-32	-032		1.781	2.062	3.375	2.375	2.750	188	1.312	7.50	2.562	203	3.22	2.309	1.841	2.250	.750	.938	1,193	102	2,86	
-40	-040		2.281	2.375	3.500	2.875	3.261		1.562	8.12	1.938	234	3.33	2.809	2.341	2.812	.875	1,000	949	137	3,84	
-48	-048		2.781	2.625	3.875	3.375	3.750		1.812	8.082	2.062	250	3.44	3.389	2.841	3.344	1.000	1,047	1,047	182	5,10	

(b) NOT TO BE USED UNLESS APPROVED BY PROLOGGING ACTIVITY  
(b) INTERNAL FLOW PRESSURE AROUND BEND SHALL BE SMOOTH AND FREE FROM PROJECTIONS  
(c) DIAMETERS A, D, AND E SHALL BE CONCENTRIC WITH EACH OTHER WITHIN .000 FULL INDICATOR READING.  
(d) ANULAR TOOL MARKS UP TO .003 MAXIMUM IS PERMITTED.  
(e) REDUCTION BY FORMING SHALL NOT EXCEED .003 MAXIMUM IS PERMITTED.  
(f) POROSITY TEST: FINISHED CASTINGS SHALL NOT LEAK WHEN SUBJECTED TO 100-PSI AIR PRESSURE AND SUBMERGED IN WATER FOR 3 MINUTES MINIMUM.  
(g) FOR TUBE SIZES EXCEEDING 1 INCH: MAXIMUM OPERATING TEMPERATURE 775° F. MAXIMUM PRESSURE 1500 PSI.  
(h) FOR TUBE SIZES EXCEEDING 1 INCH: MAXIMUM OPERATING TEMPERATURE 775° F. MAXIMUM PRESSURE 500 PSI.  
(i) ALUMINUM-ALLOY FORGING: QQ-A-387(204) CLASS 5 OR 1. OPTIONAL MATERIAL: PERMANENT MOLD ALUMINUM ALLOY BAR STOCK, QQ-A-225(9) (2024).

STEEL: FORMING: QQ-A-387(1137) OR (1041)  
UNLESS OTHERWISE SPECIFIED, SURFACE FINISH: SHALL NOT EXCEED 100 MICRONS INCHES RMS. SEE USAS B 44.1  
FINISH: ALUMINUM-ALLOY: ANGLE: 2. DYE LIGHT BLUE  
STEEL: CHAMFER: 45° ± 5° ± .005, CLASS 3, DYE BLACK  
FITTINGS SHALL BE PERMANENTLY MARKED WITH MS PART NO. ON AN UNFINISHED SURFACE.  
FOR NORMAL USE ON FUEL AND OIL SYSTEMS  
BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLOOSED UNDER USAGE.  
DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCES DECIMALS ± .125.  
THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OFF THE ISSUE IN EFFECT ON DATE OF REVOLUTIONS FOR BMD.

FED. SUP CLASS  
4730

MILITARY STANDARD

MS20762

SHEET 1 OF 1

APPROVED 9 Aug 57 REVISED 11 DEC 70