INCH-POUND
MS51516B
17 March 2016
SUPERSEDING
MS51516A
17 January 1979

DETAIL SPECIFICATION SHEET

TEE, BULKHEAD ON RUN
37 DEGREE FLARED

This specification is approved for use by all Departments and Agencies of the Department of Defense.

Inactive for new design after 17 August 1999. For new design, use SAE-J514.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-18866.

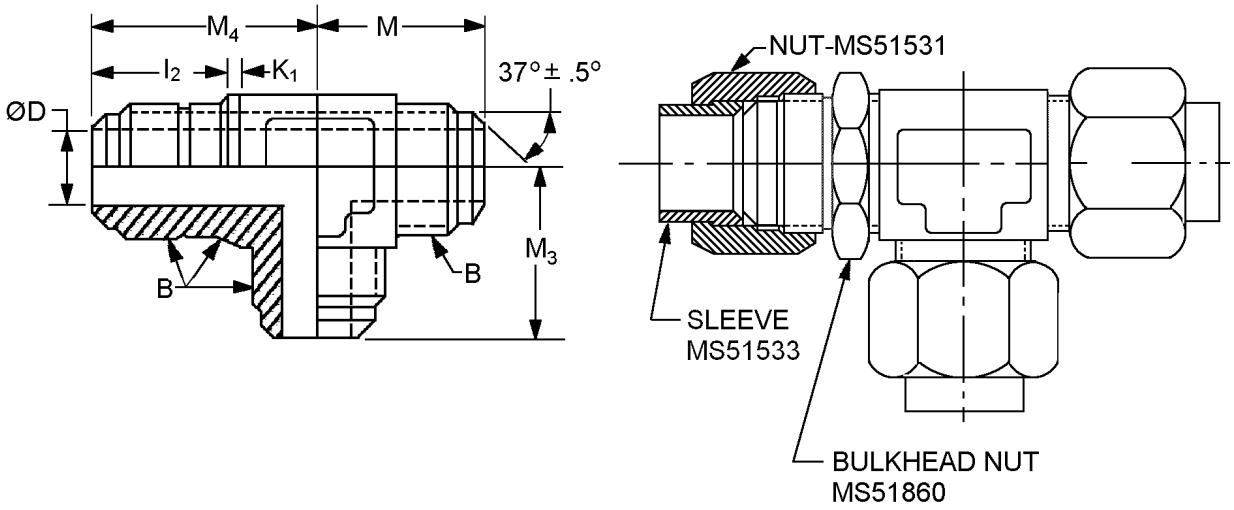


FIGURE 1. Tee, bulkhead on run.

Suffix designator		Tube OD nom.	B Straight thread	D diameter	
Assembly (see note 4)	Body			Basic inches (mm)	Tolerance inches (mm)
A2	B2	.1250 (3.175)	.3125-24 UNF-2A	.062 (1.57)	±.003 (0.08)
A3	B3	.1875 (4.763)	.3750-24 UNF-2A	.125 (3.18)	
A4	B4	.2500 (6.350)	.4375-20 UNF-2A	.172 (4.37)	
A5	B5	.3125 (7.936)	.5000-20 UNF-2A	.234 (5.94)	
A6	B6	.3750 (9.525)	.5625-18 UNF-2A	.297 (7.54)	±.004 (0.10)
A8	B8	.5000 (12.700)	.7500-16 UNF-2A	.391 (9.93)	
A10	B10	.6250 (15.875)	.8750-14 UNF-2A	.484 (12.29)	
A12	B12	.7500 (19.050)	1.0625-12 UN-2A	.609 (15.47)	±.005 (0.13)
A16	B16	1.0000 (25.400)	1.3125-12 UN-2A	.844 (21.44)	±.007 (0.18)
A20	B20	1.2500 (31.750)	1.6250-12 UN-2A	1.078 (27.38)	+.008 -.005 (+0.20 -0.13)
A24	B24	1.5000 (38.100)	1.8750-12 UN-2A	1.312 (33.32)	
A32	B32	2.0000 (	2.500-12 UN-2A	1.781 (45.24)	+.010 -.005 (+0.25 -.013)

Suffix designator		l_2 inches (mm) ±.030 (0.76)	K_1 inches (mm) ±.020 (0.51)	M_3 inches (mm) ±.020 (0.51)	M_4 inches (mm) ±.030 (0.76)
Assembly	Body				
A2	B2	.920 (23.37)	.094 (2.39)	.840 (21.34)	1.420 (36.07)
A3	B3	.920 (23.37)	.094 (2.39)	.910 (23.11)	1.450 (36.83)
A4	B4	1.020 (25.91)	.094 (2.39)	.970 (24.64)	1.590 (40.39)
A5	B5	1.020 (25.91)	.094 (2.39)	1.030 (26.16)	1.620 (41.15)
A6	B6	1.090 (27.69)	.094 (2.39)	1.090 (27.69)	1.810 (40.89)
A8	B8	1.250 (31.75)	.125 (3.18)	1.360 (34.54)	2.110 (53.59)
A10	B10	1.390 (35.31)	.125 (3.18)	1.560 (39.62)	2.390 (60.71)
A12	B12	1.560 (39.62)	.125 (3.18)	1.780 (45.21)	2.670 (67.82)
A16	B16	1.560 (39.62)	.125 (3.18)	1.940 (49.28)	2.800 (71.12)
A20	B20	1.610 (40.89)	.125 (3.18)	2.170 (55.12)	3.120 (79.25)
A24	B24	1.620 (41.15)	.125 (3.18)	2.340 (59.44)	3.420 (86.87)
A32	B32	1.910 (48.51)	.125 (3.18)	2.890 (73.41)	4.110 (104.39)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break all sharp edges and remove all burrs and slivers.
4. Assemblies are only furnished to this specification (body, nuts, and sleeves). Bodies are not to be stocked stored or issued.
5. Dimensions and tolerances not shown shall be in accordance with SAE-J514 for 37° flared fittings.
6. The drawing is for identification purposes only and is not intended to restrict designs and shapes not dimensioned.

FIGURE 1. Tee, bulkhead on run. - Continued.

REQUIREMENTS:

Fittings shall be as specified on figure 1 and tables I and II.

Materials shall be in accordance with MIL-DTL-18866 and table I.

TABLE I. Materials.

Material	Form	Specification	Alloy
Carbon steel	Bar	SAE-J403	1117, 1126, 1140, 1213, 1215, or 12L14
	Forgings		
Chrome-molybdenum steel	Bars	SAE-AMS6370	4130
	Forgings	SAE-AMS6382	
		SAE-AMS6370	
Corrosion resistant steel	Bars and forgings	ASTM A276/A276M	304, 304L, 316, or 321
		ASTM A564/A564M	XM-12 (15-5 PH) UNS S15500 or 630 (17-4 PH) UNS S17400
		SAE-AMS5639	UNS S30400
		SAE-AMS5645	UNS S32100
		SAE-AMS5647	UNS S30403
		SAE-AMS5743	UNS S35500
	Bar	ASTM A582/A582M	UNS S30300
Nickel-copper alloy	Bar	ASTM B164 QQ-N-281	UNS N04400
High-chromium nickel alloy	Bar	ASTM B166	UNS N06690
	Forgings	ASTM B564	
Titanium 1/	Bars	SAE-AMS4928	6AI-4V annealed
	Forgings		

1/ Titanium shall not be used in oxygen or potable water systems.

Finish. Finishes shall be as specified in table II. All platings shall be capable of meeting a minimum of 96 hours salt spray test in accordance with ASTM B117. The fittings shall show no evidence of corrosion after 96 hours of salt spray. Fluid passages, other openings and internal threads shall not be subject to the plating thickness requirement and may have bare areas provided they are protected with a light film of oil.

TABLE II. Material and finish identification codes.

PIN code material/plating finish	Material	Plating finish
Blank	Steel	Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 2 or SAE-AMS-QQ-P-416, type II, class 2. 1/
H	Steel	Zinc-Aluminum in accordance with ASTM F1136/F1136M, grade 3, NC.
J	Steel	Zinc-nickel in accordance with SAE-AMS2417, type 2, grade B. 3/
M	Nickel-copper alloy UNS N04400	No additional finish.
N	High-chromium nickel alloy UNS N06690	No additional finish.
P	Steel	Zinc phosphate finish in accordance MIL-DTL-16232 type Z, class 4. 2/
R	Steel	Zinc plating in accordance with ASTM B633; type VI, Fe/Zn 12. 5/
S	Corrosion resistant steel	No additional finish. Passivation in accordance with SAE-AMS2700, method 1, type 6 or 7.
T	Titanium	Anodize in accordance with SAE-AMS2488 type 2. 4/
TF	Titanium	Fluoride phosphate in accordance with SAE-AMS2486. 4/
Z	Steel	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 12, or ASTM B695, type II, class 12. 5/
ZC	Steel	Zinc may be any zinc plating from PIN codes H, J, and R with a colored chromate coating 5/

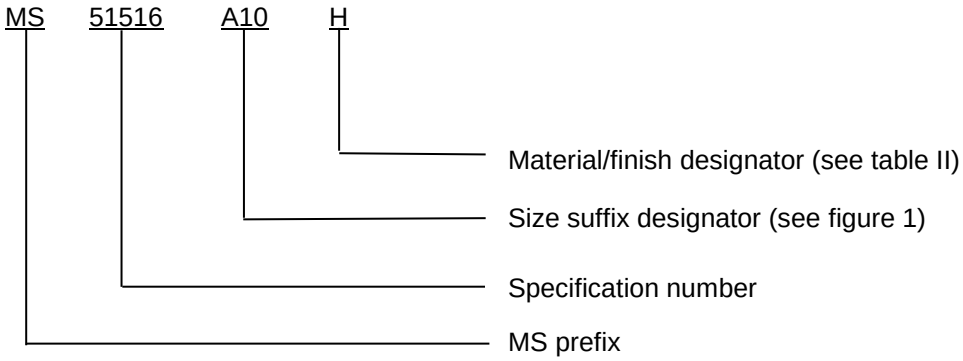
1/ Embrittlement test need not be run. Cadmium shall not be used in oxygen or potable water systems.
2/ Hexavalent chromium free. Finish shall be ROHS compliant.
3/ The zinc-nickel alloy plate shall contain 12% to 16% nickel. The coating thickness shall be 315µ inches (8µm) minimum coating thickness.
4/ A pretreatment, a modification of the fluoride treatment, or a post treatment shall be applied so the final color of the fittings shall be similar to FED-STD-595 colors 36076 through 36293.
5/ Not for use in aircraft. Requires approval from the Program Officer for all applications.

Trivalent wrenchability. When the finish has been damaged due to poor wrenchability, the surface of the connector shall be touched up using one of the brush plating processes below as appropriate to primary finish. The term “trivalent wrenchability” is used to evaluate the ability of the finish to withstand abrasion from an excessive amount of wrenching.

a. Brush plating of hard chromium by electrodeposition shall be in accordance with SAE-AMS-2451/5.
b. Brush plating of medium-hardness, low stress nickel by electrodeposition shall be in accordance with SAE-AMS-2451/9.

Maximum operating pressure. Maximum operating pressure shall be in accordance with SAE-J514.

PIN: The PIN consists of the letters “MS”, the specification number, a letter and number for tee size, and a letter for material finish designator.



PIN example: MS51516A10H indicates a tee, bulkhead on run, .6250 inch (15.875 mm), steel zinc-aluminum plating.

Cadmium is not recommended. To the users of this document, it is recommended that the use of carbon steel material with cadmium plating be used only when other materials and finishes specified in this document cannot meet performance requirements.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Referenced documents shall be of the issue in effect on date of invitations for bid.

Table III provides a detailed cross-reference of inactive MS51516 PIN’s and for new design SAE-J514 PIN’s.

MS51516 parts have straight threads in accordance with ASME B1.1 the SAE parts have straight threads in accordance with SAE-J425.

Plating “P” SAE allows a range of nickel from 6% to 20%. Below 12%, ZnNi is not much better than zinc plating, which is less expensive and easier to apply. Above 16%, ZnNi becomes more cathodic and no longer acts as a sacrificial coating - if a high nickel coating is damaged the steel beneath the coating will corrode at an accelerated rate.

Users are cautioned to evaluate replacement parts for their particular application.

CAUTION: The superseding information is valid as of the date of this specification and may be superseded by subsequent revisions of the superseding document.

TABLE III. MS51516 to SAE-J514 cross reference.

Inactive for new design MS51516- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51516A2	MS51516B2	1/8	Not available	Not available
MS51516A2H	MS51516B2H	1/8	Not available	Not available
MS51516A2J	MS51516B2J	1/8	Not available	Not available
MS51516A2M	MS51516B2M	1/8	J514-2-2-2-070958MA	J514-2-2-2-070958MB
MS51516A2N	MS51516B2N	1/8	J514-2-2-2-070958NA	J514-2-2-2-070958NB
MS51516A2P	MS51516B2P	1/8	J514-2-2-2-070958PA	J514-2-2-2-070958PB
MS51516A2R	MS51516B2R	1/8	Not available	Not available
MS51516A2PS	MS51516B2S	1/8	J514-2-2-2-070958SA	J514-2-2-2-070958SB
MS51516A2T	MS51516B2T	1/8	J514-2-2-2-070958TA	J514-2-2-2-070958TB
MS51516A2TF	MS51516B2TF	1/8	Not available	Not available
MS51516A2Z	MS51516B2Z	1/8	J514-2-2-2-070958ZA	J514-2-2-2-070958ZB
MS51516A2ZC	MS51516B2ZC	1/8	Not available	Not available
MS51516A3	MS51516B3	3/16	Not available	Not available
MS51516A3H	MS51516B3H	3/16	Not available	Not available
MS51516A3J	MS51516B3J	3/16	Not available	Not available
MS51516A3M	MS51516B3M	3/16	J514-3-3-3-070958MA	J514-3-3-3-070958MB
MS51516A3N	MS51516B3N	3/16	J514-3-3-3-070958NA	J514-3-3-3-070958NB
MS51516A3P	MS51516B3P	3/16	J514-3-3-3-070958PA	J514-3-3-3-070958PB
MS51516A3R	MS51516B3R	3/16	Not available	Not available
MS51516A3S	MS51516B3PS	3/16	J514-3-3-3-070958SA	J514-3-3-3-070958SB
MS51516A3T	MS51516B3T	3/16	J514-3-3-3-070958TA	J514-3-3-3-070958TB
MS51516A3TF	MS51516B3TF	3/16	Not available	Not available
MS51516A3Z	MS51516B3Z	3/16	J514-3-3-3-070958ZA	J514-3-3-3-070958ZB
MS51516A3ZC	MS51516B3ZC	3/16	Not available	Not available
MS51516A4	MS51516B4	1/4	Not available	Not available
MS51516A4H	MS51516B4HJ	1/4	Not available	Not available
MS51516A4J	MS51516B4J	1/4	Not available	Not available
MS51516A4M	MS51516B4M	1/4	J514-4-4-4-070958MA	J514-4-4-4-070958MB
MS51516A4N	MS51516B4N	1/4	J514-4-4-4-070958NA	J514-4-4-4-070958NB
MS51516A4P	MS51516B4P	1/4	J514-4-4-4-070958PA	J514-4-4-4-070958PB
MS51516A4R	MS51516B4R	1/4	Not available	Not available
MS51516A4S	MS51516B4S	1/4	J514-4-4-4-070958SA	J514-4-4-4-070958SB
MS51516A4T	MS51516B4T	1/4	J514-4-4-4-070958TA	J514-4-4-4-070958TB
MS51516A4TF	MS51516B4TF	1/4	Not available	Not available
MS51516A4Z	MS51516B4Z	1/4	J514-4-4-4-070958ZA	J514-4-4-4-070958ZB
MS51516A4ZC	MS51516B4ZC	1/4	Not available	Not available

TABLE III. MS51516 to SAE-J514 cross reference - Continued.

Inactive for new design MS51516- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51516A5	MS51516B5	5/16	Not available	Not available
MS51516A5H	MS51516B5H	5/16	Not available	Not available
MS51516A5J	MS51516B5J	5/16	Not available	Not available
MS51516A5M	MS51516B5M	5/16	J514-5-5-5-070958MA	J514-5-5-5-070958MB
MS51516A5N	MS51516B5N	5/16	J514-5-5-5-070958NA	J514-5-5-5-070958NB
MS51516A5P	MS51516B5P	5/16	J514-5-5-5-070958PA	J514-5-5-5-070958PB
MS51516A5R	MS51516B5R	5/16	Not available	Not available
MS51516A5S	MS51516B5S	5/16	J514-5-5-5-070958SA	J514-5-5-5-070958SB
MS51516A5T	MS51516B5T	5/16	J514-5-5-5-070958TA	J514-5-5-5-070958TB
MS51516A5TF	MS51516B5TF	5/16	Not available	Not available
MS51516A5Z	MS51516B5Z	5/16	J514-5-5-5-070958ZA	J514-5-5-5-070958ZB
MS51516A5ZC	MS51516B5ZC	5/16	Not available	Not available
MS51516A6	MS51516B6	3/8	Not available	Not available
MS51516A6H	MS51516B6H	3/8	Not available	Not available
MS51516A6J	MS51516B6J	3/8	Not available	Not available
MS51516A6M	MS51516B6M	3/8	J514-6-6-6-070958MA	J514-6-6-6-070958MB
MS51516A6N	MS51516B6N	3/8	J514-6-6-6-070958NA	J514-6-6-6-070958NB
MS51516A6P	MS51516B6P	3/8	J514-6-6-6-070958PA	J514-6-6-6-070958PB
MS51516A6R	MS51516B6R	3/8	Not available	Not available
MS51516A6S	MS51516B6S	3/8	J514-6-6-6-070958SA	J514-6-6-6-070958SB
MS51516A6T	MS51516B6T	3/8	J514-6-6-6-070958TA	J514-6-6-6-070958TB
MS51516A6TF	MS51516B6TF	3/8	Not available	Not available
MS51516A6Z	MS51516B6Z	3/8	J514-6-6-6-070958ZA	J514-6-6-6-070958ZB
MS51516A6ZC	MS51516B6ZC	3/8	Not available	Not available
MS51516A8	MS51516B8	1/2	Not available	Not available
MS51516A8H	MS51516B8H	1/2	Not available	Not available
MS51516A8J	MS51516B8J	1/2	Not available	Not available
MS51516A8M	MS51516B8M	1/2	J514-8-8-8-070958MA	J514-8-8-8-070958MB
MS51516A8N	MS51516B8N	1/2	J514-8-8-8-070958NA	J514-8-8-8-070958NB
MS51516A8P	MS51516B8P	1/2	J514-8-8-8-070958PA	J514-8-8-8-070958PB
MS51516A8R	MS51516B8R	1/2	Not available	Not available
MS51516A8S	MS51516B8S	1/2	J514-8-8-8-070958SA	J514-8-8-8-070958SB
MS51516A8T	MS51516B8T	1/2	J514-8-8-8-070958TA	J514-8-8-8-070958TB
MS51516A8TF	MS51516B8TF	1/2	Not available	Not available
MS51516A8Z	MS51516B8Z	1/2	J514-8-8-8-070958ZA	J514-8-8-8-070958ZB
MS51516A8ZC	MS51516B8ZC	1/2	Not available	Not available

TABLE III. MS51516 to SAE-J514 cross reference - Continued.

Inactive for new design MS51516- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51516A10	MS51516B10	5/8	Not available	Not available
MS51516A10H	MS51516B10H	5/8	Not available	Not available
MS51516A10J	MS51516B10J	5/8	Not available	Not available
MS51516A10M	MS51516B10M	5/8	J514-10-10-10-070958MA	J514-10-10-10-070958MB
MS51516A10N	MS51516B10N	5/8	J514-10-10-10-070958NA	J514-10-10-10-070958NB
MS51516A10P	MS51516B10P	5/8	J514-10-10-10-070958PA	J514-10-10-10-070958PB
MS51516A10R	MS51516B10R	5/8	Not available	Not available
MS51516A10S	MS51516B10S	5/8	J514-10-10-10-070958SA	J514-10-10-10-070958SB
MS51516A10T	MS51516B10T	5/8	J514-10-10-10-070958TA	J514-10-10-10-070958TB
MS51516A10TF	MS51516B10TF	5/8	Not available	Not available
MS51516A10Z	MS51516B10Z	5/8	J514-10-10-10-070958ZA	J514-10-10-10-070958ZB
MS51516A10ZC	MS51516B10ZC	5/8	Not available	Not available
MS51516A12	MS51516B12	3/4	Not available	Not available
MS51516A12H	MS51516B12H	3/4	Not available	Not available
MS51516A12J	MS51516B12J	3/4	Not available	Not available
MS51516A12M	MS51516B12M	3/4	J514-12-12-12-070958MA	J514-12-12-12-070958MB
MS51516A12N	MS51516B12N	3/4	J514-12-12-12-070958NA	J514-12-12-12-070958NB
MS51516A12P	MS51516B12P	3/4	J514-12-12-12-070958PA	J514-12-12-12-070958PB
MS51516A12R	MS51516B12R	3/4	Not available	Not available
MS51516A12S	MS51516B12S	3/4	J514-12-12-12-070958SA	J514-12-12-12-070958SB
MS51516A12T	MS51516B12T	3/4	J514-12-12-12-070958TA	J514-12-12-12-070958TB
MS51516A12TF	MS51516B12TF	3/4	Not available	Not available
MS51516A12Z	MS51516B12Z	3/4	J514-12-12-12-070958ZA	J514-12-12-12-070958ZB
MS51516A12ZC	MS51516B12ZC	3/4	Not available	Not available
MS51516A16	MS51516B16	1	Not available	Not available
MS51516A16H	MS51516B16H	1	Not available	Not available
MS51516A16J	MS51516B16J	1	Not available	Not available
MS51516A16M	MS51516B16M	1	J514-16-16-16-070958MA	J514-16-16-16-070958MB
MS51516A16N	MS51516B16N	1	J514-16-16-16-070958NA	J514-16-16-16-070958NB
MS51516A16P	MS51516B16P	1	J514-16-16-16-070958PA	J514-16-16-16-070958PB
MS51516A16R	MS51516B16R	1	Not available	Not available
MS51516A16S	MS51516B16S	1	J514-16-16-16-070958SA	J514-16-16-16-070958SB
MS51516A16T	MS51516B16T	1	J514-16-16-16-070958TA	J514-16-16-16-070958TB
MS51516A16TF	MS51516B16TF	1	Not available	Not available
MS51516A16Z	MS51516B16Z	1	J514-16-16-16-070958ZA	J514-16-16-16-070958ZB
MS51516A16ZC	MS51516B16ZC	1	Not available	Not available

TABLE III. MS51516 to SAE-J514 cross reference - Continued.

Inactive for new design MS51516- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51516A20	MS51516B20	1 1/4	Not available	Not available
MS51516A20H	MS51516B20H	1 1/4	Not available	Not available
MS51516A20J	MS51516B20J	1 1/4	Not available	Not available
MS51516A20M	MS51516B20M	1 1/4	J514-20-20-20-070958MA	J514-20-20-20-070958MB
MS51516A20N	MS51516B20N	1 1/4	J514-20-20-20-070958NA	J514-20-20-20-070958NB
MS51516A20P	MS51516B20P	1 1/4	J514-20-2020-0709589PA	J514-20-20-20-070958PB
MS51516A20R	MS51516B20R	1 1/4	Not available	Not available
MS51516A20S	MS51516B20S	1 1/4	J514-20-2020-0709589SA	J514-20-20-20-070958SB
MS51516A20T	MS51516B20T	1 1/4	J514-20-20-20-070958TA	J514-20-20-20-070958TB
MS51516A20TF	MS51516B20TF	1 1/4	Not available	Not available
MS51516A20Z	MS51516B20Z	1 1/4	J514-20-20-20-070958ZA	J514-20-20-20-070958ZB
MS51516A20ZC	MS51516B20ZC	1 1/4	Not available	Not available
MS51516A24	MS51516B24	1 1/2	Not available	Not available
MS51516A24H	MS51516B24H	1 1/2	Not available	Not available
MS51516A24J	MS51516B24J	1 1/2	Not available	Not available
MS51516A24M	MS51516B24M	1 1/2	J514-24-24-24-070958MA	J514-24-24-24-070958MB
MS51516A24N	MS51516B24N	1 1/2	J514-24-24-24-070958NA	J514-24-24-24-070958NB
MS51516A24P	MS51516B24P	1 1/2	J514-24-24-24-070958PA	J514-24-24-24-070958PB
MS51516A24R	MS51516B24R	1 1/2	Not available	Not available
MS51516A24S	MS51516B24S	1 1/2	J514-24-24-24-070958SA	J514-24-24-24-070958SB
MS51516A24T	MS51516B24T	1 1/2	J514-24-24-24-070958TA	J514-24-24-24-070958TB
MS51516A24TF	MS51516B24TF	1 1/2	Not available	Not available
MS51516A24Z	MS51516B24Z	1 1/2	J514-24-24-24-070958ZA	J514-24-24-24-070958ZB
MS51516A24ZC	MS51516B24ZC	1 1/2	Not available	Not available
MS51516A32	MS51516B32	2	Not available	Not available
MS51516A32H	MS51516B32H	2	Not available	Not available
MS51516A32J	MS51516B32J	2	Not available	Not available
MS51516A32M	MS51516B32M	2	J514-32-32-32-070958MA	J514-32-32-32-070958MB
MS51516A32N	MS51516B32N	2	J514-32-32-32-070958NA	J514-32-32-32-070958NB
MS51516A32P	MS51516B32P	2	J514-32-32-32-070958PA	J514-32-32-32-070958PB
MS51516A32R	MS51516B32R	2	Not available	Not available
MS51516A32S	MS51516B32S	2	J514-32-32-32-070958SA	J514-32-32-32-070958SB
MS51516A32T	MS51516B32T	2	J514-32-32-32-070958TA	J514-32-32-32-070958TB
MS51516A32TF	MS51516B32TF	2	Not available	Not available
MS51516A32Z	MS51516B32Z	2	J514-32-32-32-070958ZA	J514-32-32-32-070958ZB
MS51516A32ZC	MS51516B32ZC	2	Not available	Not available

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-18866, this document references the following:

FED-STD-595/36076	FED-STD-595/36293	ASTM B564	SAE-AMS5639
FED-STD-595/36081	MIL-DTL-16232	ASTM B633	SAE-AMS5645
FED-STD-595/36099	MS51531	ASTM B695	SAE-AMS5647
FED-STD-595/36118	MS51533	ASTM F1136/F1136M	SAE-AMS5743
FED-STD-595/36134	MS51860	SAE-AMS-C-81562	SAE-AMS6370
FED-STD-595/36152	QQ-N-281	SAE-AMS-QQ-P-416	SAE-AMS6382
FED-STD-595/36170	ASME B1.1	SAE-AMS2417	SAE-J403
FED-STD-595/36173	ASTM A276/A276M	SAE-AMS2451/5	SAE-J514
FED-STD-595/36176	ASTM A564/A564M	SAE-AMS2451/9	SAE-J425
FED-STD-595/36231	ASTM A582/A582M	SAE-AMS2486	
FED-STD-595/36251	ASTM B117	SAE-AMS2488	
FED-STD-595/36270	ASTM B164	SAE-AMS2700	
FED-STD-595/36280	ASTM B166	SAE-AMS4928	

CONCLUDING MATERIAL

Custodians:
Army - AR
Navy - OS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2016-016)

Review activities:
Army - AT, MI
Navy - CG, MC, SA, SH
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.