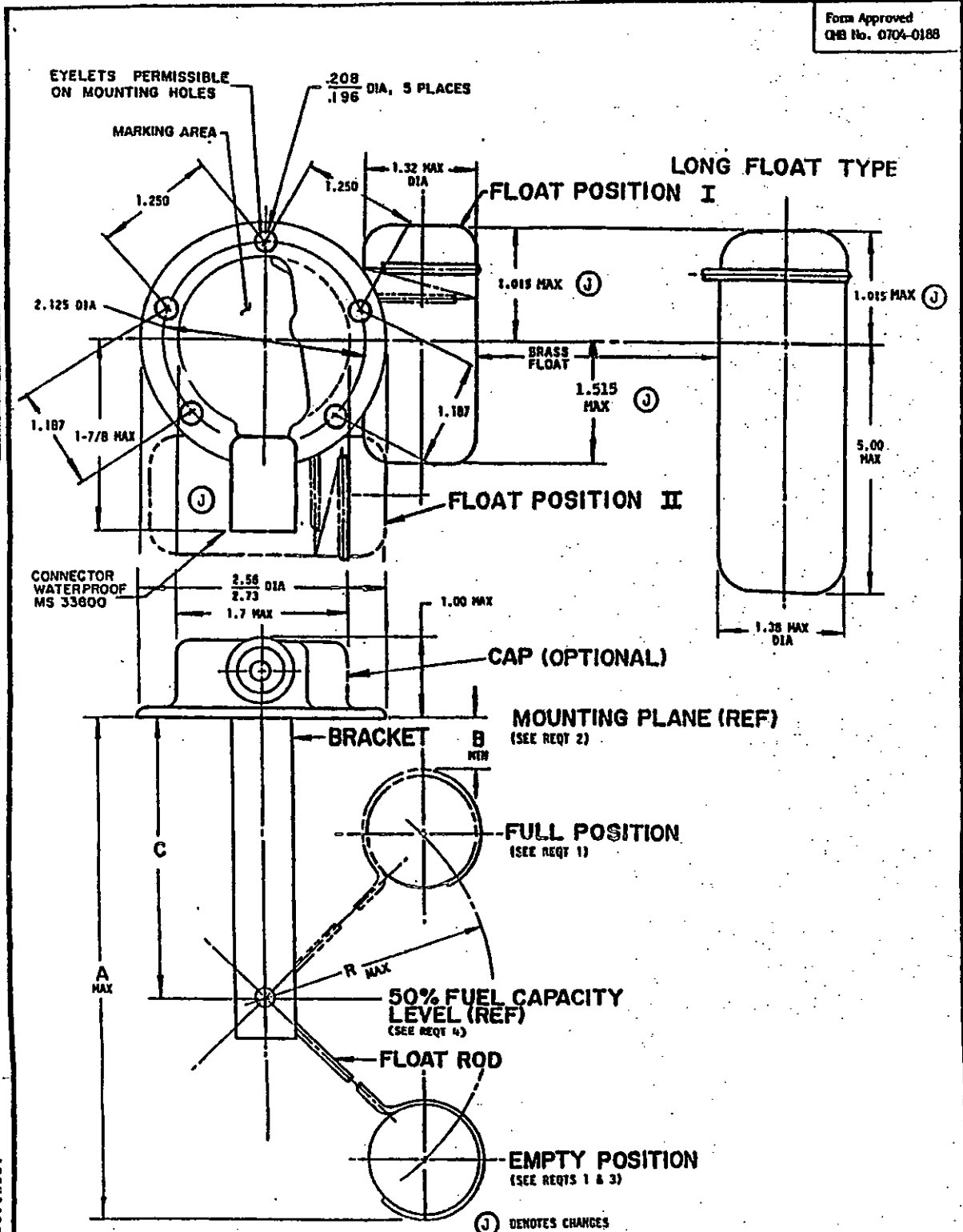


Form Approved  
OMB No. 0704-0188

The requirements for acquiring the product(s) described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the DoDISS specified in the solicitation MIL-I-10986

This specification is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.



<p>PREPARING ACTIVITY: ARMY-AT CUSTODIANS: ARMY- AT NAVY- DLA- AIR FORCE- DLA- REVIEW: DLA-GS USER: ARMY-ME; AF-80 PROJECT NUMBER: 6680-A229</p>	<p>MILITARY SPECIFICATION SHEET TITLE: TRANSMITTER, LIQUID QUANTITY, FLOAT TYPE, ENGINE FUEL</p>	<p>SPECIFICATION SHEET NUMBER: MS500040J(AT) 1 MARCH 1991 SUPERSEDING: MS500040H(AT) 29 JULY 1988 ANSC-WA PSC- 6680</p>
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The requirements for acquiring the product(s) described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the DoD ISS specified in the solicitation: MIL-I-10986

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MS PART NUMBER	FORMER PART NUMBER	DIMENSIONS			H	FLOAT POSITION	FLOAT TYPE
		A MAX	B MIN	C			
MS500040-1	10872707	7.23	.13	$\frac{3.96}{3.48}$	3.93	I	REGULAR
MS500040-2	8376496 7526038	7.67	.39	$\frac{3.96}{3.48}$	4.15	I	REGULAR
MS500040-3	8376496	10.28	.47	$\frac{8.42}{5.11}$	6.61	II	REGULAR
MS500040-4	10942801	11.94	.47	$\frac{5.50}{5.20}$	6.50	II	REGULAR
MS500040-5	7034597	16.56	.29	$\frac{8.21}{7.90}$	9.32	I	REGULAR
MS500040-6	8376491	16.90	.19	$\frac{8.21}{7.90}$	10.35	I	REGULAR
MS500040-7	10921745	17.15	2.35	$\frac{9.77}{9.71}$	9.03	II	REGULAR
MS500040-8	7064625	33.50	1.40	$\frac{14.79}{14.49}$	21.07	I	LONG
MS500040-9	8737838	14.59	.53	$\frac{7.40}{7.00}$	8.67	I	REGULAR
MS500040-10	12332788	11.65	3.19	$\frac{7.47}{7.41}$	4.47	I	REGULAR

## REQUIREMENTS:

- WHEN TESTED IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION, RESISTANCE CALIBRATION MEASUREMENTS SHALL BE 0.00 TO 0.50 OHMS AT EMPTY POSITION, AND 29.50 TO 31.50 OHMS AT FULL POSITION.
- ANY PORTION OF THE ASSEMBLY AS SHOWN BELOW THE INDICATED MOUNTING PLANE (REF) SHALL PASS THROUGH AN OPENING OF 1.562 INCHES IN DIAMETER.
- FOR NEW DESIGN APPLICATIONS, A FUEL RESERVE OF 10 PERCENT OF THE APPLICABLE FUEL TANK CAPACITY SHALL REMAIN WHEN THE FLOAT FIRST REACHES THE EMPTY POSITION AS SHOWN WITH FUEL TANK LEVEL DECLINING.
- FOR NEW DESIGN APPLICATIONS, THE FLOAT LEVER FULCRUM, LOCATION OF WHICH IS DETERMINED BY DIMENSION "C", SHALL BE ESTABLISHED IN LINE WITH THE 50 PERCENT FUEL CAPACITY LEVEL (REF) OF THE APPLICABLE FUEL TANK.
- THE MS PART NUMBER AND MANUFACTURER'S IDENTIFICATION SHALL BE MARKED ON BODY OF TRANSMITTER IN ACCORDANCE WITH MIL-STD-130.
- TRANSMITTER SHALL HAVE A STEADY AND CONTINUOUS OUTPUT FOR ALL FLOAT POSITIONS AND SHALL TRACK LINEARLY WITH THE FLOAT POSITION.
- ALL STEEL PARTS, EXCEPT STAINLESS STEEL, SHALL BE ZINC OR CADMIUM PLATED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- MATERIAL, FLOAT: BRASS, INCL-LEADED SHEET OR STYMP COPPER ALLOY NUMBER 260 OR 268; ANNEALED TEMPER, SPECIFICATION QQ-B-613 OR ASTM B36.
- THE USE OF RECYCLED MATERIALS WHICH MEET THE REQUIREMENTS OF THE APPLICABLE MATERIAL SPECIFICATIONS WITHOUT JEOPARDIZING THE INTENDED USE OF THE ITEM SHALL BE ENCOURAGED.

## NOTES:

- UNIT 2 (TRANSMITTERS) TYPE 1 (LIQUID QUANTITY) CLASS I (FLOAT TYPE) OF PROCUREMENT SPECIFICATION.
- FOR ASSOCIATED INDICATOR, LIQUID QUANTITY - 24 VOLT DC ENGINE FUEL SEE MS24544.
- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, TOLERANCES ARE  $\pm .016$  ON DECIMALS,  $\pm 1/32$  ON FRACTIONS.
- THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON, BY DIMENSIONS, NOTATIONS, AND REFERENCED DOCUMENTS.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS.

PREPARING ACTIVITY: ARMY-AT	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER:
CUSTODIANS: ARMY- NAVY- AIR FORCE- DLA-	TITLE:	MS500040J(AT)
REVIEW: DLA-6S	TRANSMITTER, LIQUID QUANTITY,	1 MARCH 1991
USER: ARMY-ME; AF-80	FLOAT TYPE, ENGINE FUEL	SUPERSEDED BY: MS500040H(AT)
PROJECT NUMBER: 6680-A229		29 JULY 1988
		AHSC-HA FSC- 6680
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