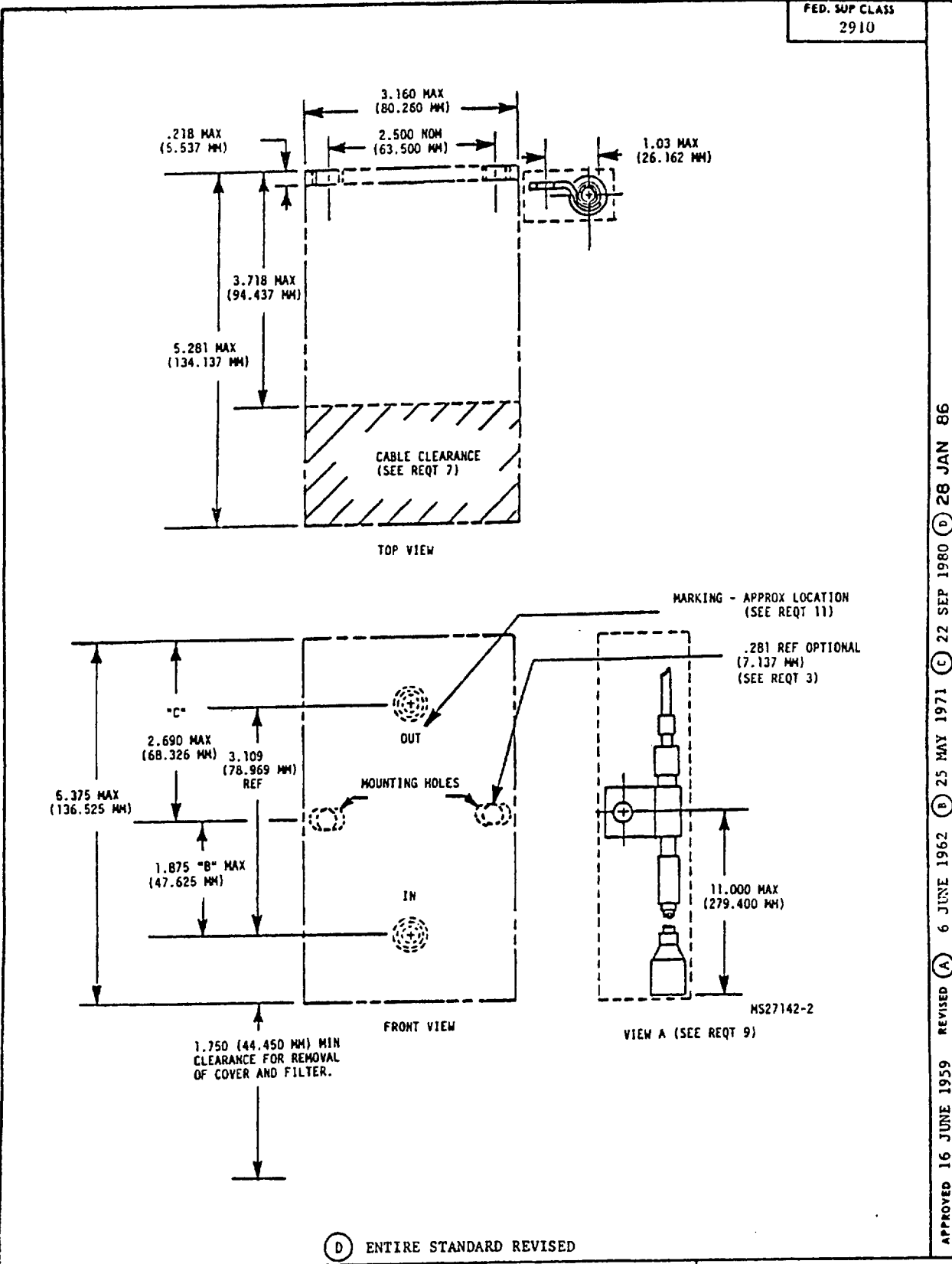


REVIEWER ACTIVITIES: ARMY-ME, MI; DLA-CS AF-82  
 USER ACTIVITIES: NAVY-MC

FED. SUP CLASS  
 2910

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 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



(D) ENTIRE STANDARD REVISED

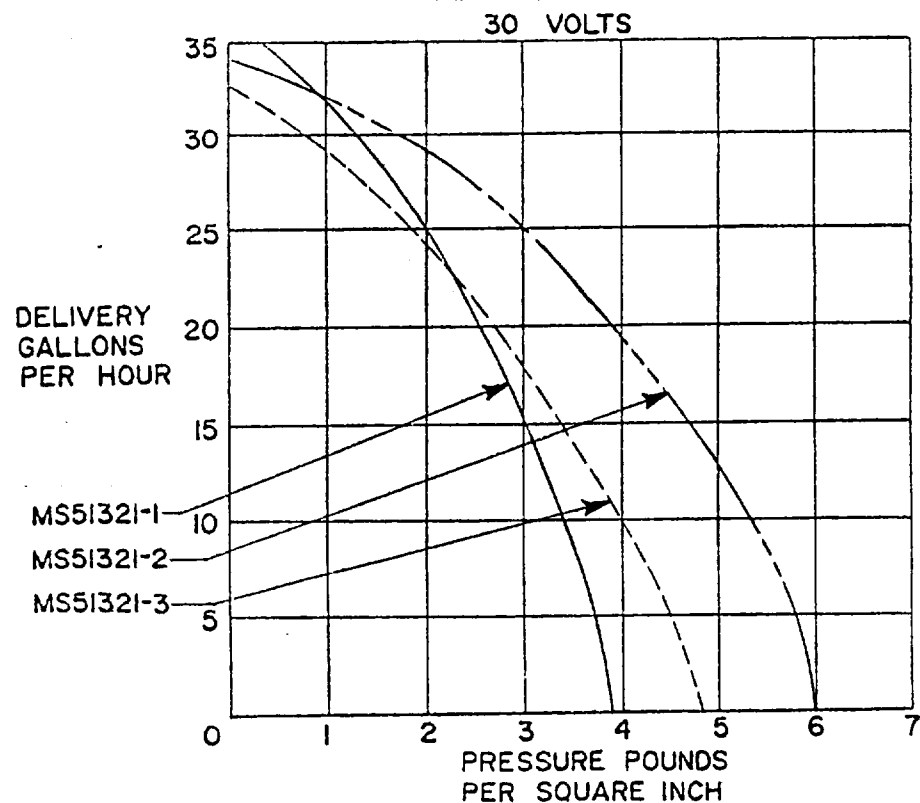
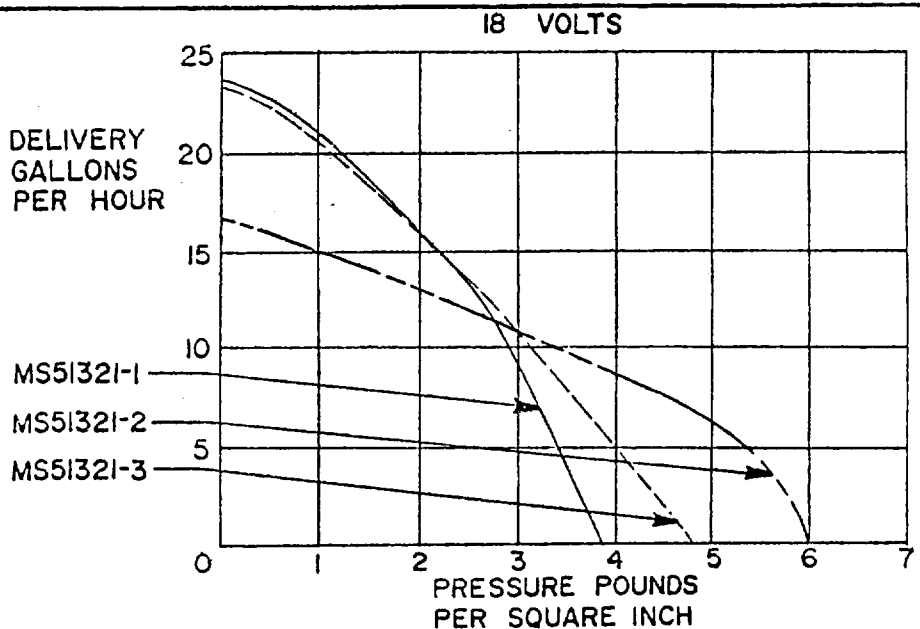
P. A. ARMY-AT Other Cost AF-99	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
		PUMP, FUEL, ELECTRICAL - 24 VOLT D.C., 25 G.P.H. CAPACITY	MS51321
PROCUREMENT SPECIFICATION MIL-P-45328	SUPERSEDES:	SHEET	OF 3

APPROVED 16 JUNE 1959 REVISED (A) 6 JUNE 1962 (B) 25 MAY 1971 (C) 22 SEP 1980 (D) 28 JAN 86

REVIEWER ACTIVITIES: ARMY-ME, MI; DLA-CS  
 USER ACTIVITIES: NAVY-MC  
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MS PART NO	FORMER PART NO	MAX. OUTPUT-PSI	INLET/OUTLET THREAD
MS51321-1	7392887	4-1/2 <sup>+1/4</sup> <sub>-1/2</sub>	1/8-27 NPTF FEMALE
MS51321-2	10910278	7:1	1/4-18 NPTF MALE
MS51321-3	10861299	5-1/2 <sup>+1/4</sup> <sub>-1/2</sub>	1/4-18 NPTF MALE

P. A. ARMY-AT Other Cost AF-99	INTERNATIONAL INTEREST	TITLE <b>PUMP, FUEL, ELECTRICAL - 24 VOLT D.C., 25 G.P.H. CAPACITY</b>	MILITARY STANDARD <b>MS51321</b>
PROCUREMENT SPECIFICATION NIL-P-45328	SUPERSEDES:	SHEET <b>2</b> OF <b>3</b>	

APPROVED 16 JUNE 1959 REVISED FOR CHANGES SEE SHEETS 1, 2 AND 3 28 JAN 86

NAVY-JIC  
USER ACTIVITIES  
ARMY-ME, MI; DLA-CS  
AF-82  
REVIEW ACTIVITIES

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REQUIREMENTS:

1. PUMP OUTPUT SHALL MEET MINIMUM REQUIREMENTS SPECIFIED ON APPLICABLE PERFORMANCE CURVES.
2. MOUNTING LOCATION SHALL BE CENTRAL WITH INLET/OUTLET LOCATION WITHIN "B" DIMENSION. MOUNTING LOCATION SHALL BE CENTRAL WITHIN OVERALL HEIGHT WITHIN "C" DIMENSION.
3. PUMP CONFIGURATION MUST ALLOW CLEARANCE, WITHIN ENVELOPE DIMENSIONS FOR INSTALLATION OF PUMP THROUGH MOUNTING HOLES. MOUNTING HOLES MAY BE .281 (7.137 MM) DIAMETER OR .281 BY .344 (7.137 MM BY 8.738 MM) OBLONG.
4. INLET AND OUTLET MUST PROTRUDE FROM PUMP BODY ENOUGH TO FACILITATE MECHANICAL CONNECTION OF FITTINGS.
5. INSTALLATION DESIGN MUST ALLOW  $.312 \pm .031$  INCH (7.92 MM  $\pm$  .790 MM) VARIATION BETWEEN PLANES OF FACES OF INLET AND OUTLET.
6. CABLE SHALL BE NO. 14 AMERICAN WIRE GAUGE (AWG) AND SHALL CONFORM TO MIL-C-13486, TYPE 1, CLASS A. WHEN NECESSARY, PART OR ALL OF CABLE MAY CONFORM TO TYPE II, CLASS A OF MIL-C-13486, PROVIDED THAT A SEPARATE CABLE GROUND IS USED, WITH INSTALLATION CLEARANCE AS INDICATED IN VIEW A.
7. CABLE SHALL EXIT PUMP WITHIN, OR BEFORE, AREA MARKED, "CABLE CLEARANCE".
8. CABLE CONNECTOR SHALL CONFORM TO MS27142-2.
9. CABLE AND CABLE GROUND ARE EXTERIOR TO PUMP BODY (SEE VIEW A). INSTALLATION MUST ALLOW FOR CABLE ASSEMBLY CLEARANCE.
10. PROTECTIVE FINISH:
  - A. STEEL SURFACES - ZINC PLATE PER ASTM B633, Fe/Zn 5.
  - B. ZINC SURFACES - CHROMATE TREAT PER MIL-T-12879, TYPE II.
11. MARKING SHALL BE AS INDICATED HEREON AND IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
  - A. INLET SHALL BE MARKED "IN" AND OUTLET SHALL BE MARKED "OUT".
  - B. ELECTRICAL GROUND POLARITY AND VOLTAGE SHALL BE MARKED "24 VOLT NEGATIVE" IN A CONSPICUOUS LOCATION.

NOTES:

1. TOLERANCES ON DIMENSIONS ARE .010 FOR INCHES (.254 MM).
2. FOR INFORMATION OTHER THAN AS SHOWN, SEE PROCUREMENT SPECIFICATION.
3. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
4. THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON BY DIMENSIONS, NOTATIONS AND REFERENCED DOCUMENTS.
5. 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.
6. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS OR REQUEST FOR PROPOSAL.

P. A. ARMY-AT Other Cust AF-99	INTERNATIONAL INTEREST	TITLE PUMP, FUEL, ELECTRICAL - 24 VOLT D.C., 25 G.P.H. CAPACITY	MILITARY STANDARD MS51321
PROCUREMENT SPECIFICATION MIL-P-45328	SUPERSEDES:		SHEET 3 OF 3