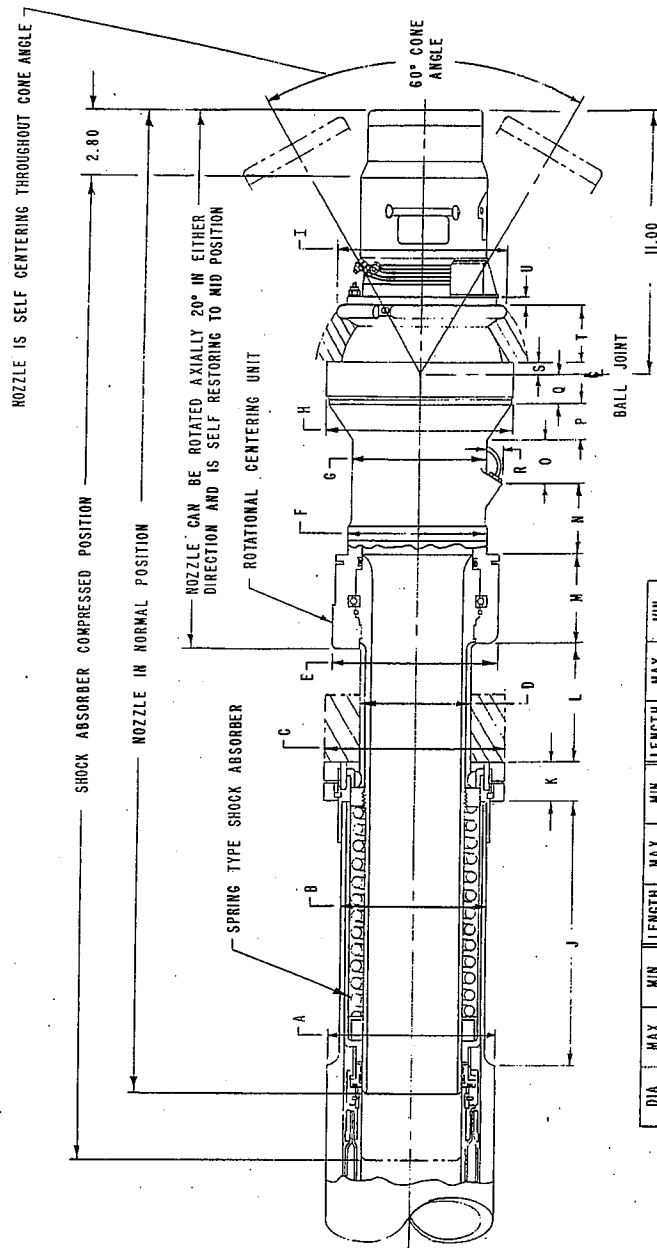


FED. SUP. CLASS
1680

* DOES NOT INCLUDE SPRING GUARD OR BOLT HEADS.

ALL DIMENSIONS ARE IN INCHES.
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm .010$

DIA	MAX	MIN	LENGTH	MAX	MIN
A	6.962	10.970	S	.501	.450
B	6.02	1.555	T	2.463	2.386
C	7.43	4.629	U	.31	.30
D	4.83	3.744			
E	6.75*	2.86			
F	5.77	1.673			
G	5.85	1.454			
H	7.76	1.265			
I	7.05	.67			

THIS IS A DESIGN STANDARD, NOT TO BE USED AS A PART NUMBER.

P.A. AIR FORCE II	TITLE	MILITARY STANDARD
Other Cust	NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MS27604(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 1 OF 4

This standard has been approved by the
Department of the Air Force and is mandatory for use by
that activity. All other military activities are required
to employ this standard where suitable.DD FORM 672-1 (Limited coordination)
1 SEP 63

EDITION OF 1 SEP 57 MAY BE USED.

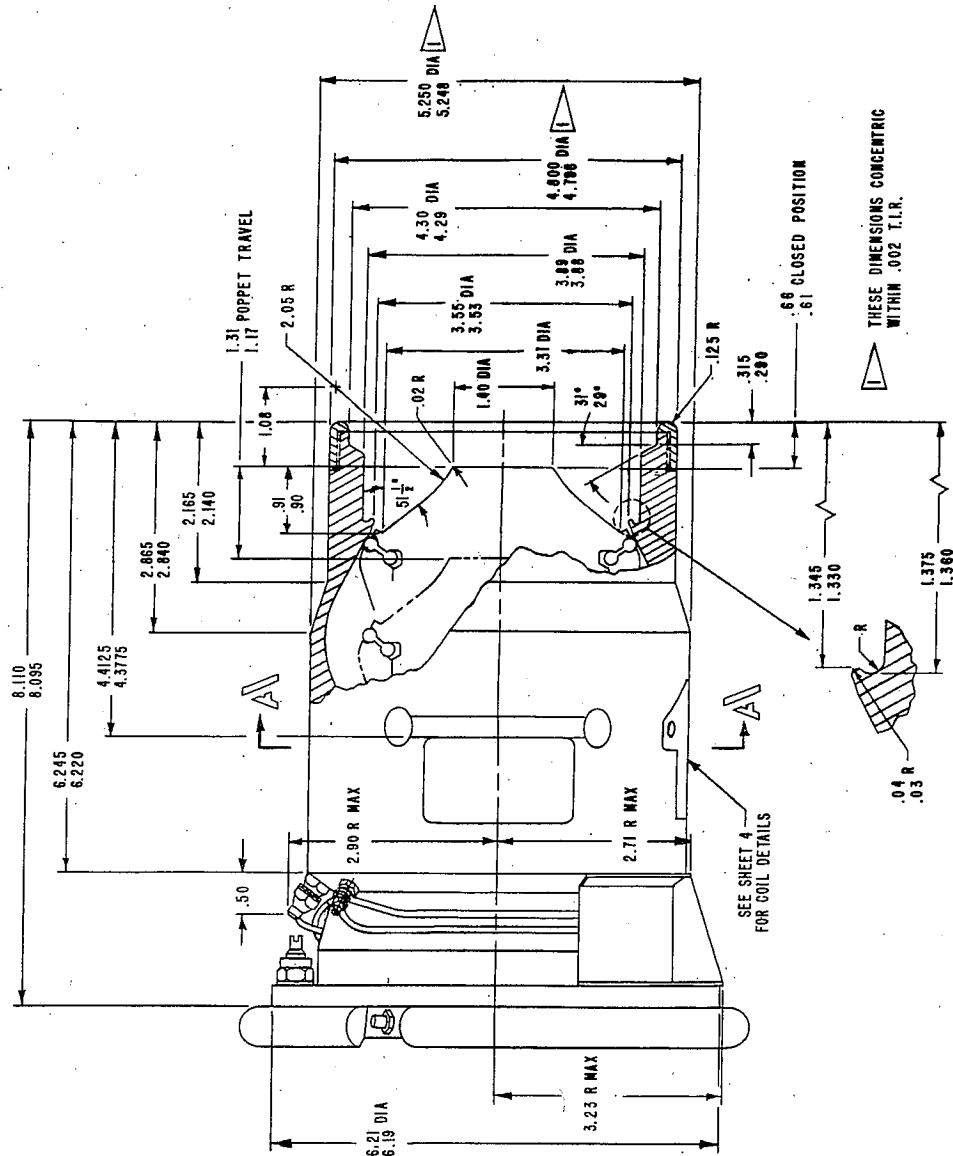
APPROVED 11 AUGUST 69 REVISED

This standard has been approved by the Department of Defense for use by other activity. All other military activities are required to employ this standard where suitable.

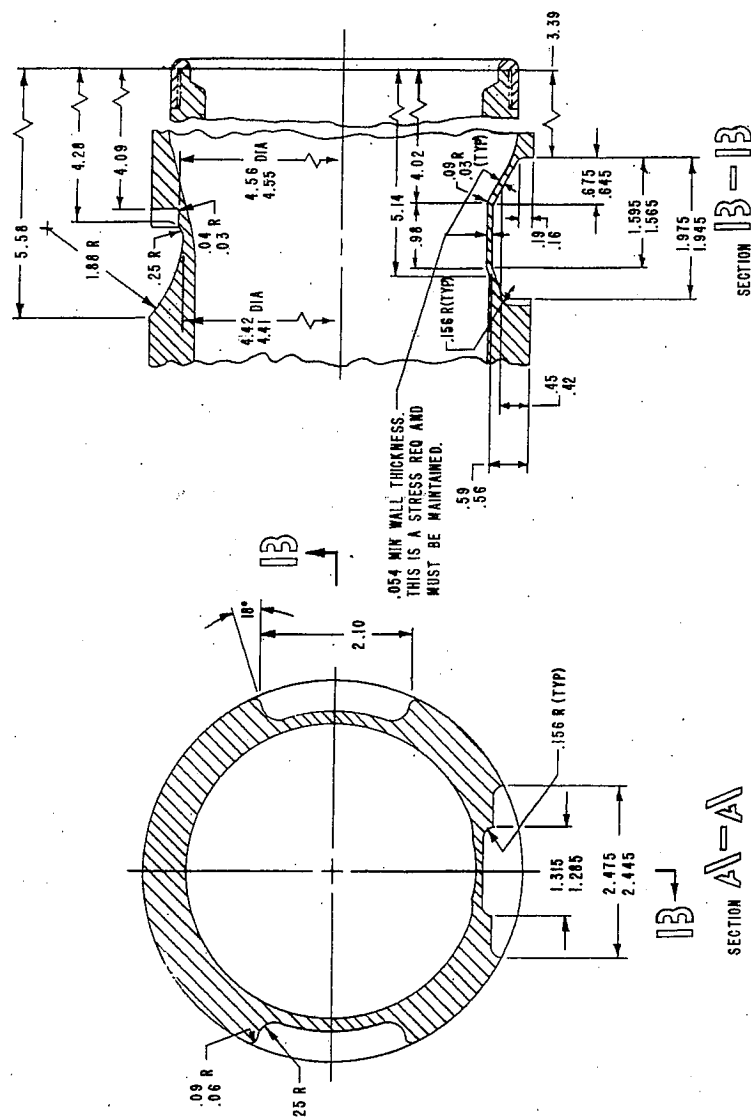
P.A. AIR FORCE II Other Cust	TITLE NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MILITARY STANDARD MS27604(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 2 OF

DD FORM 672-1 (Limited coordination)

EDITION OF 1 SEP 57 MAY BE USED.

FED. SUP CLASS
1680

APPROVED 11 AUGUST 69 REVISED

FED. SUP CLASS
1680

This standard has been approved by the Department of the Air Force and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

P.A. AIR FORCE II Other Cust	TITLE NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MILITARY STANDARD MS27604(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 3 OF

DD FORM 672-1 (Limited coordination)
1 SEP 61

EDITION OF 1 SEP 67 MAY BE USED.

APPROVED 11 AUGUST 69 REVISED

FED. SUP CLASS
1680**TANKER COIL REQUIREMENTS****A. COIL DESIGN**

1. THE COIL SHALL BE MADE OF 2300 TURNS \pm 38 B AND S FORMAX MAGNETIC WIRE OR EQUIVALENT WITH A RESISTANCE OF 333 TO 432 OHMS.
2. LAMINATIONS SHALL BE 0.01 OR 0.014 THICK COMMERCIAL QUALITY TRANSFORMER STEEL WITH CORE LOSS NOT EXCEEDING 0.72 WATTS PER POUND. THE MINIMUM LAMINATION CROSS-SECTIONAL AREA SHALL BE 0.09 IN² WITH THE POLE FACE DIMENSIONS AS SHOWN ON FIGURE 1.

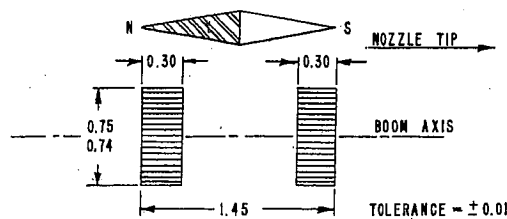


FIGURE 1

3. WHEN THE POSITIVE TERMINAL OF A 28 VOLT D.C. POWER SOURCE IS APPLIED TO THE SIGNAL INPUT LEAD THE NORTH NEEDLE OF A COMPASS SHALL POINT AS SHOWN ON FIGURE 1.

B. POLE FACE POSITIONS AND TOLERANCES**TANKER**

1. THE EDGE OF THE AFT POLE FACE SHALL BE LOCATED 3.89 ± 0.10 FROM THE NOZZLE TIP AS SHOWN ON FIGURE 2.

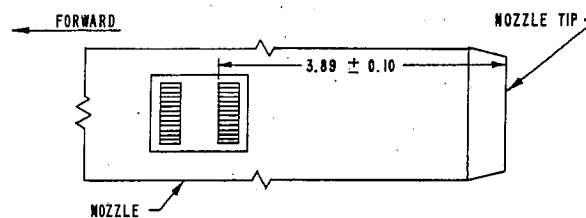


FIGURE 2

2. THE POLE FACES SHALL BE POSITIONED FROM FLUSH WITH THE NOZZLE SURFACE TO MINUS 0.01 FROM THE OUTSIDE SURFACE OF THE NOZZLE AS SHOWN ON FIGURE 3.

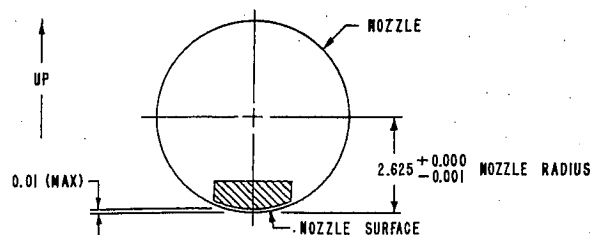


FIGURE 3

3. THE POLE FACES SHALL BE CENTERED WITHIN 0.03 TO THE LEFT OR RIGHT OF THE VERTICAL AXIS.

This standard has been approved by the Department of the Air Force and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

P.A. AIR FORCE II Other Cust	TITLE NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MILITARY STANDARD MS27604(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 4 OF

DD FORM 672-1 (Limited coordination)

EDITION OF 1 SEP 67 MAY BE USED.

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