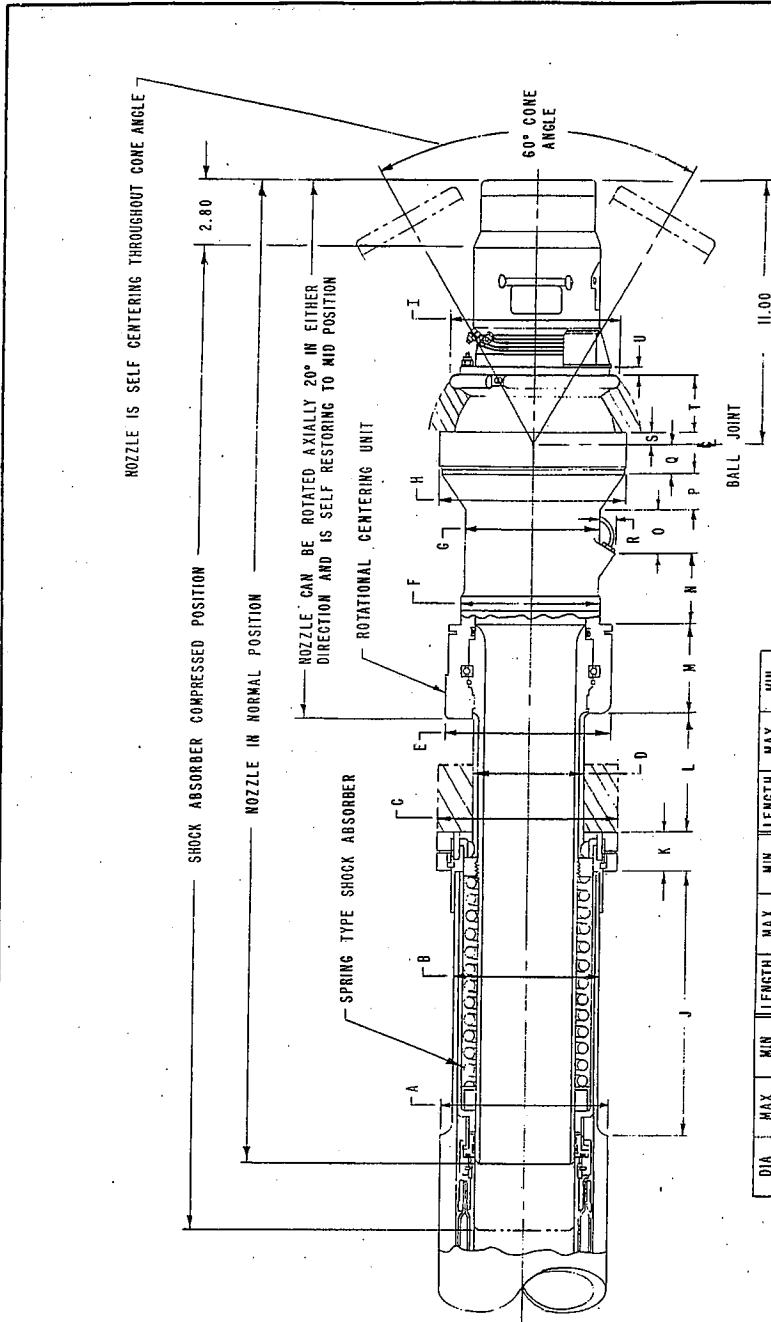


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* DOES NOT INCLUDE SPRING GUARD OR BOLT HEADS.
ALL DIMENSIONS ARE IN INCHES.
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm .010$

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	4.959	U	.31	.30
D	4.83	4.070	M	3.744	
E	6.75*	2.96	N	2.86	
F	5.77	1.926	O	1.673	
G	5.65	1.647	P	1.454	
H	7.76	1.310	Q	1.265	
I	7.05	.73	R	.67	

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.

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

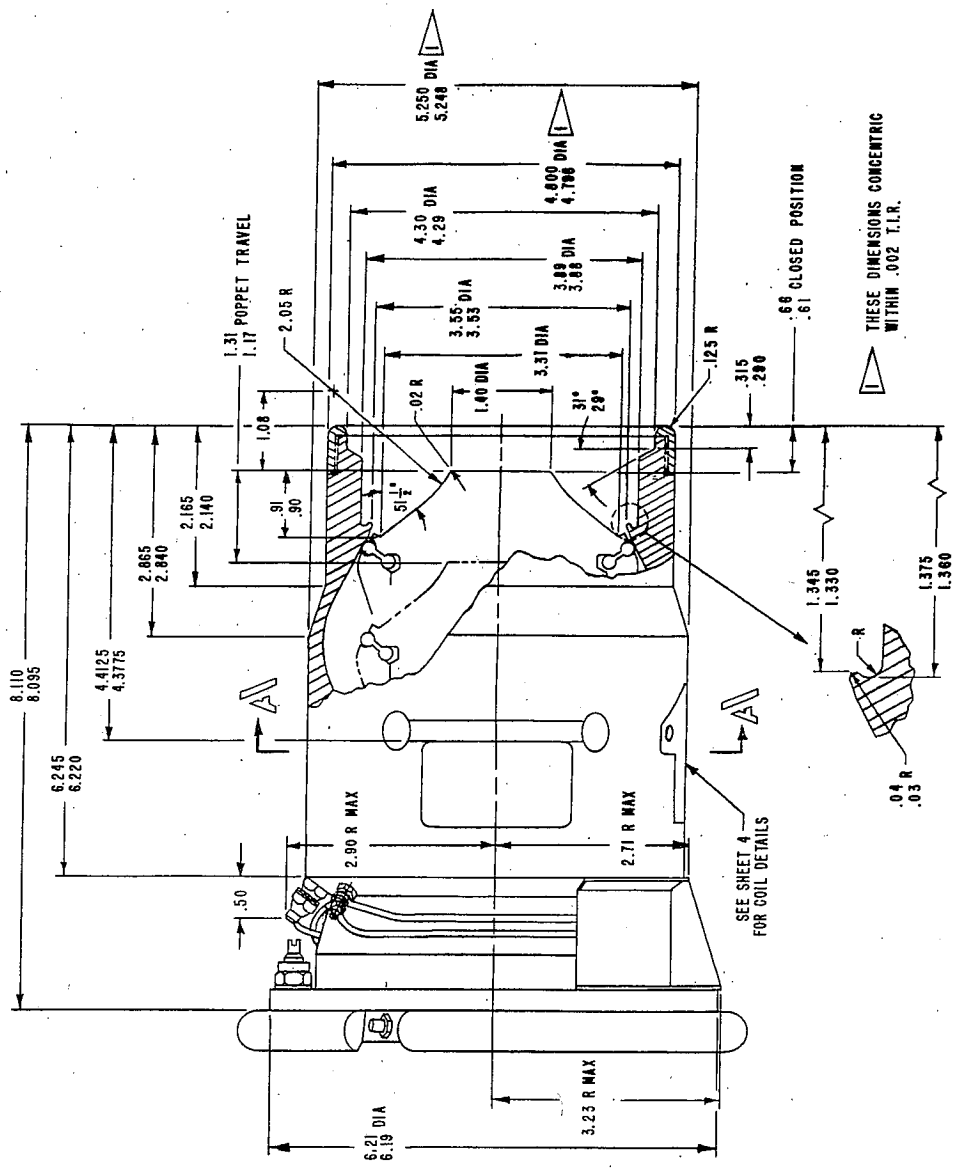
P.A. AIR FORCE II Other Cust	TITLE NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MILITARY STANDARD MS27604(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 1 OF 4

DD FORM 672-1 (Limited coordination)
1 SEP 63

EDITION OF 1 SEP 57 MAY BE USED.

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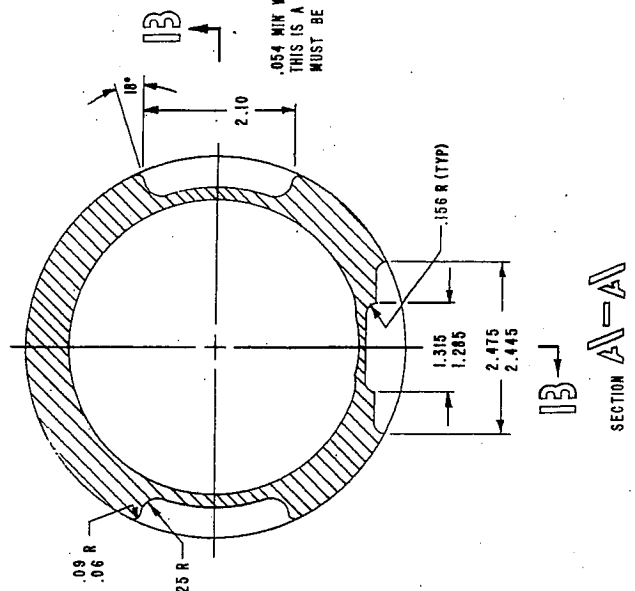
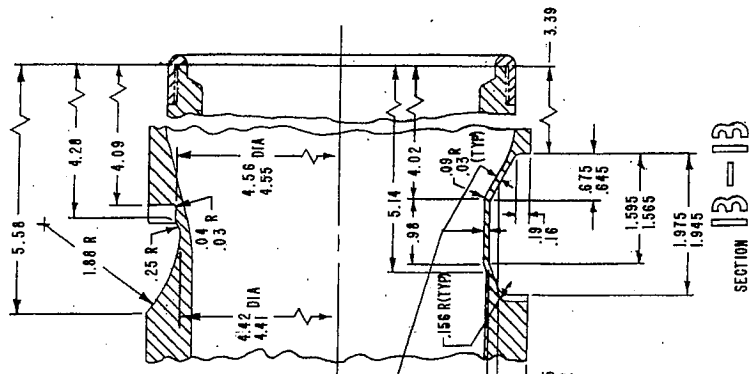
This standard has been approved by the military for use by other activities. All other military activities are required to employ this standard where suitable.

P.A. AIR FORCE II
Other Cust
PROCUREMENT SPECIFICATION

TITLE
NOZZLE-UNIVERSAL AERIAL REFUELING
TANKER BOOM
SUPERSEDES:

MILITARY STANDARD
MS27604(USAF)
SHEET 2 OF

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

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

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.

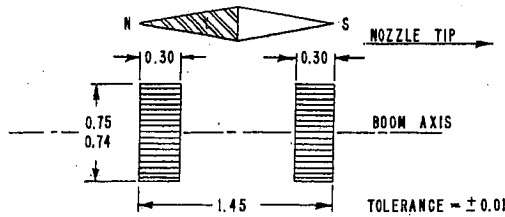


FIGURE 1

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.

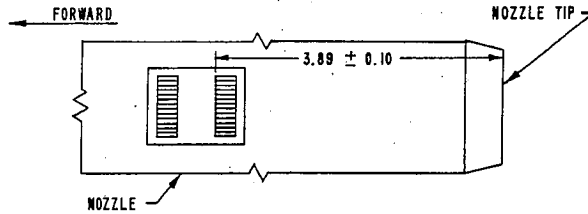


FIGURE 2

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.

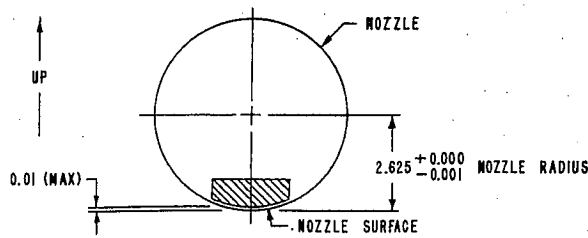


FIGURE 3

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.

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P.A. AIR FORCE II Other Cust	TITLE NOZZLE-UNIVERSAL AERIAL REFUELING TANKER BOOM	MILITARY STANDARD
		MS27604(USAF)
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DD FORM 672-1 (Limited coordination) 1 SEP 62

EDITION OF 1 SEP 67 MAY BE USED.