

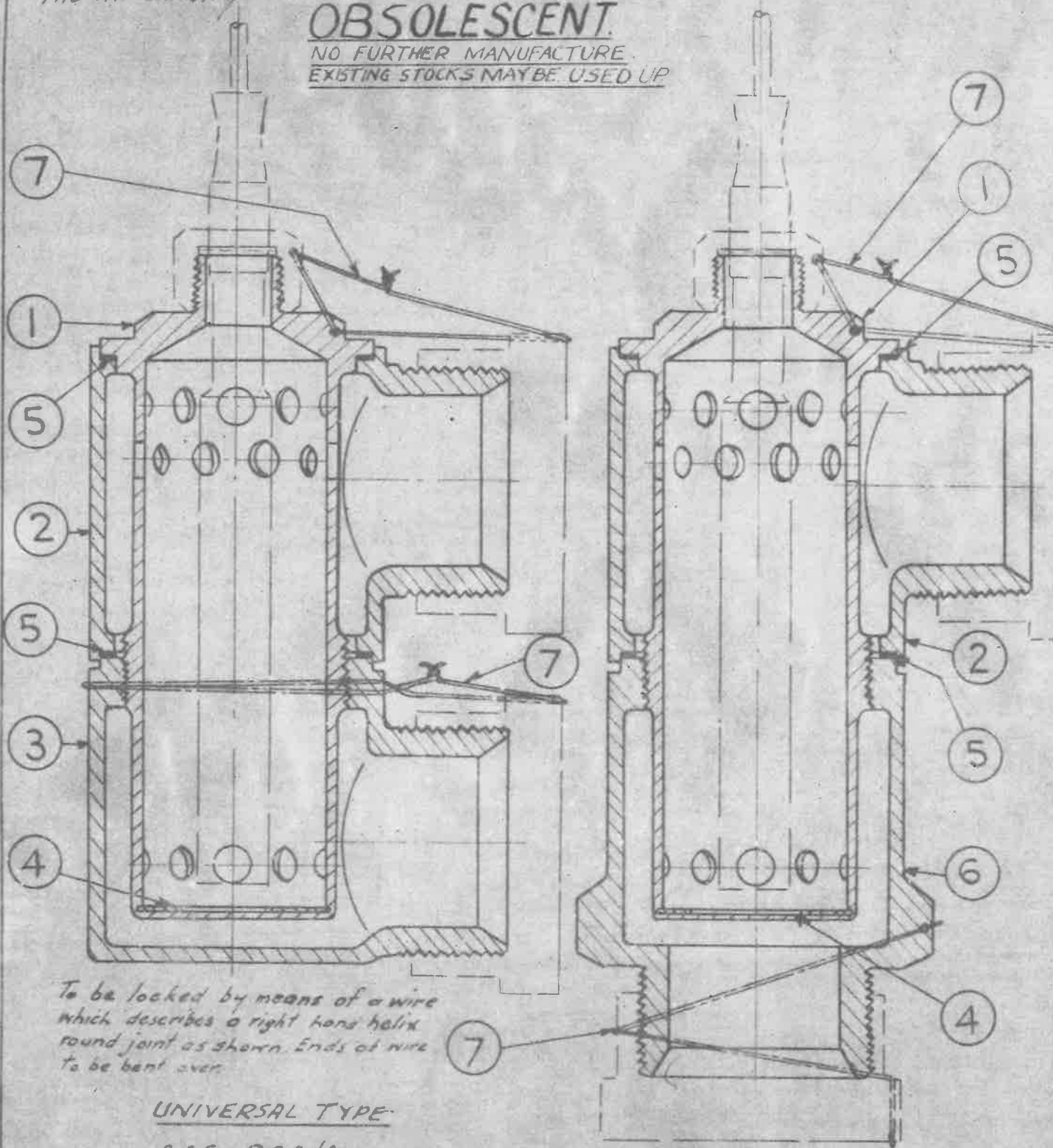
This drawing may only be used for the  
Manufacture of Articles to be supplied to  
The Air Ministry

AIR MINISTRY A.G.S. No. 964

SHEET No. 1 | No. of SHEETS 3

**OBSOLESCE**  
NO FURTHER MANUFACTURE.  
EXISTING STOCKS MAY BE USED UP

15 5 36  
51180C/36



To be locked by means of a wire  
which describes a right hand helix  
round joint as shown. Ends of wire  
to be bent over.

UNIVERSAL TYPE

A.G.S. 964/A

ELBON TYPE

A.G.S. 964/B

PART NO.	A.G.S. NO.	DESCRIPTION	NO. OFF.	REMARKS
1	964/1	Sleeve	1	
2	964/2	Body Casting	1	
4	964/4	End Plug	1	
5	N.D.	Fibre Washer	2	2.00" $\phi$ x 1.75" $\phi$ x $\frac{1}{2}$ "
7	N.D.	Locking Wire	Reqd	See A.G.S. N <sup>o</sup> 769
3	964/3	Body Casting	1	For Assembly "A"
6	964/6	Union Body (Alternative)	1	For Assembly "B"

Test Pressure— The Complete Pocket is to withstand  
a hydraulic Test Pressure of 150 lbs per  $\square$  inch

ISSUED BY DRAWING OFFICE DIRECTORATE OF TECHNICAL DEVELOPMENT AIR MINISTRY	TITLE— OIL THERMOMETER POCKET $\frac{1}{2}$ " B.S. PIPE				RETRACTED FOR A.F.C. R.S. Harvey (VR)	DRAWN N.I. Foster	TRACED H.N. 19.2.36
	ISSUE No.	37	8	2	4	CHECKED R.S. Hoys. 21.2.36	APPROVED Mitt 2.3.36
ALTERATION	AGS 317	Amend AGS 120	AGS 762	AGS. NO. 762	19.1.36		

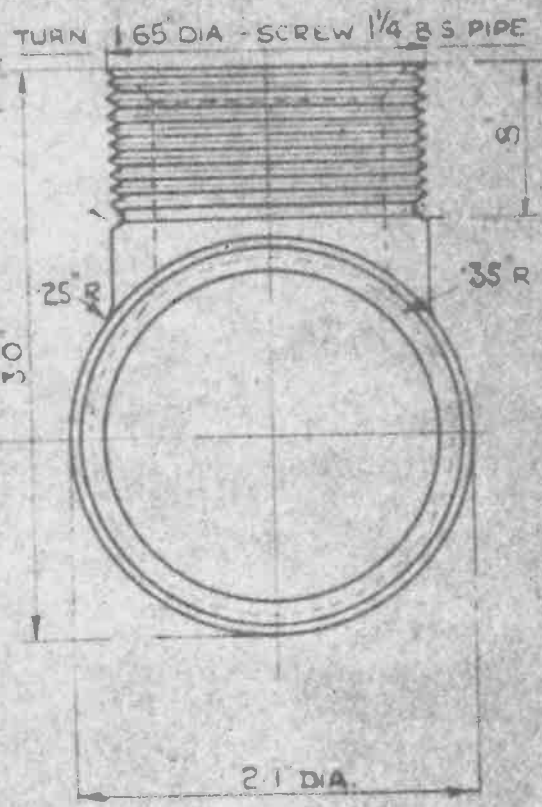
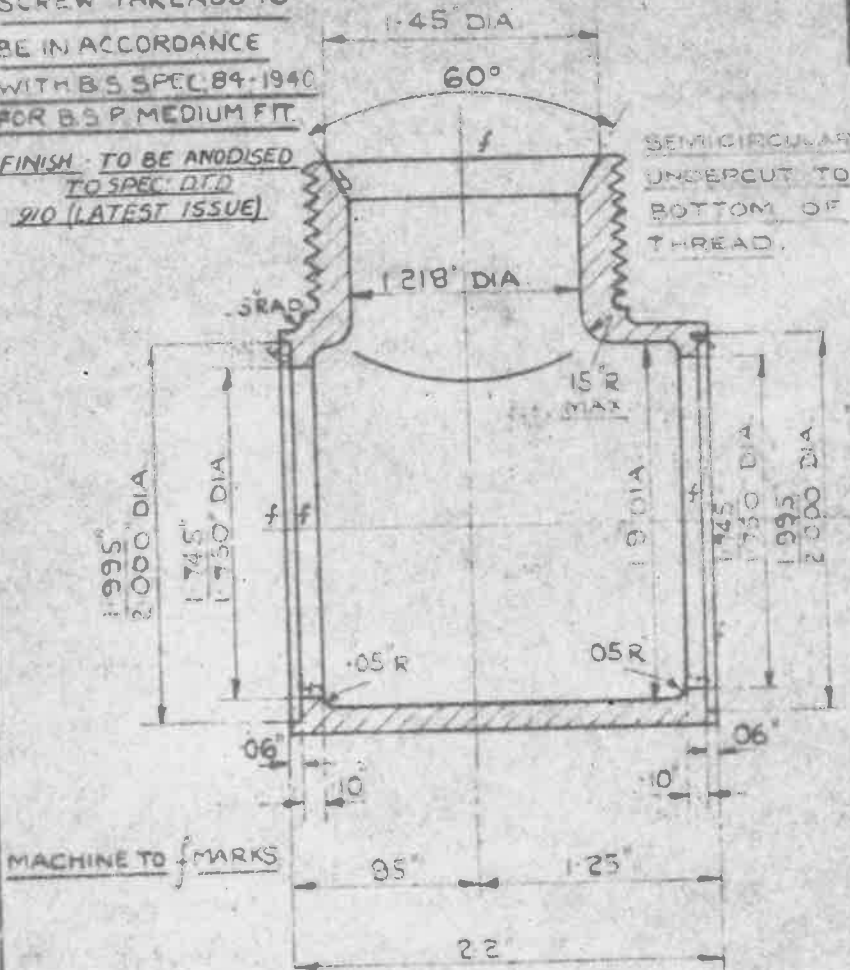
**OBSOLESCE**

AIR MINISTRY A.G.S. No 964

SHEET No 2 NO OF SHEETS 3

SCREW THREADS TO BE IN ACCORDANCE WITH B.S SPEC. 84-1940 FOR B.S.P. MEDIUM FIT.

FINISH - TO BE ANODISED TO SPEC. D.T.D. 910 (LATEST ISSUE)



BODY CASTING PART 2

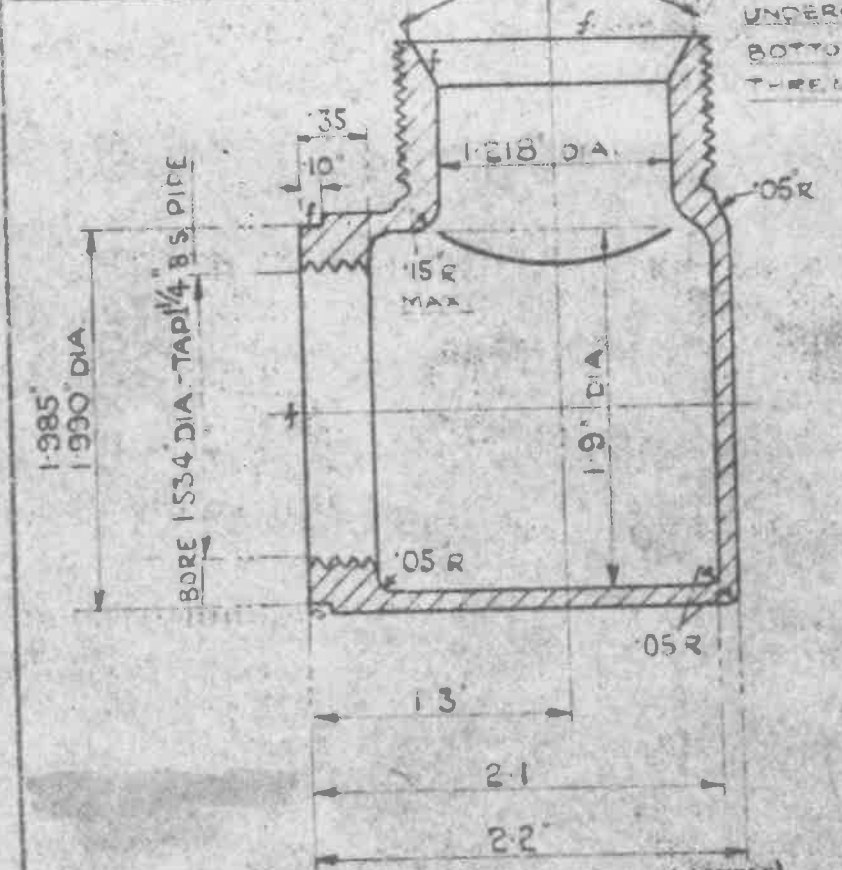
MATERIAL - ALUMINIUM

SPEC. NO. LS, L 33 OR D.T.D. 424 (LATEST ISSUE)

CLASS 3 CASTING, SEE DRG. NPA D 15528-1 (LATEST ISSUE)

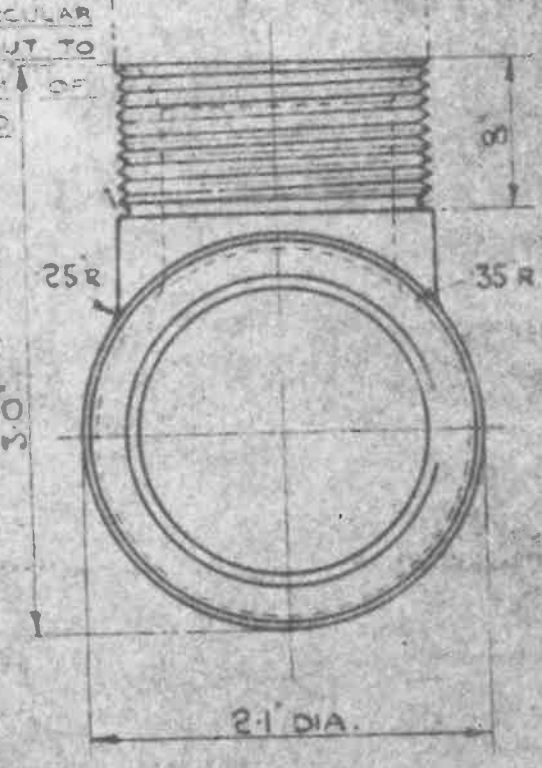
SCALE - FULL SIZE

SCREW THREADS TO BE IN ACCORDANCE WITH B.S. SPEC. 84-1940 FOR B.S.P. MEDIUM FIT.



**OBSOLESCE**

TURN 1.65 DIA - SCREW 1/4 BS PIPE



BODY CASTING. PART 3.

MATERIAL - ALUMINIUM

SPEC. NO. LS, L 33, OR D.T.D. 424 (LATEST ISSUES)

FINISH - TO BE ANODISED TO SPEC. D.T.D. 910 (LATEST ISSUE)

SCALE - FULL SIZE

MACHINE TO MARKS

ISSUED BY DRAWING OFFICE  
DIRECTORATE OF  
TECHNICAL DEVELOPMENT  
AIR MINISTRY

TITLE:- OIL THERMOMETER POCKET  
1/4 BS PIPE

ISSUE NO	1	2	3	4	5
ALTERATION NO					

DRAWN W.F. FOSTER	DATE 14/11/53
CHECKED H.P.S. MOSELEY	APPROVED A.D.T. 2/53

15-5-36

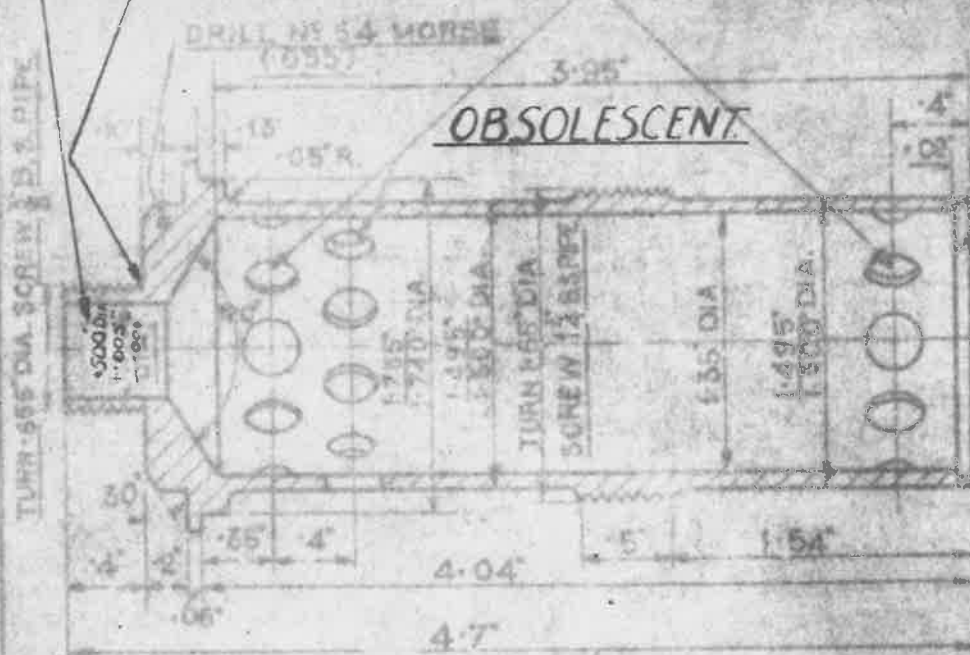
ISSUE NO: 8  
AS PER SPEC. 15528-1 (LATEST ISSUE)  
LTN NO: 61

THE ECCENTRICITY OF THE HOLE TO THE 1/2 B.S. PIPE THREAD TO BE WITHIN .003

AIR MINISTRY A.S. No. 96  
SHEET No 3 No. 5/6

SEMI-CIRCULAR UNDERCUT TO BOTTOM OF THREAD

PITCH CIRCLE STAGGERED HOLES EQUALLY SPACED



END PLUG, PART 4 INS. FIT HERE AND RIM FLW OVER TO S



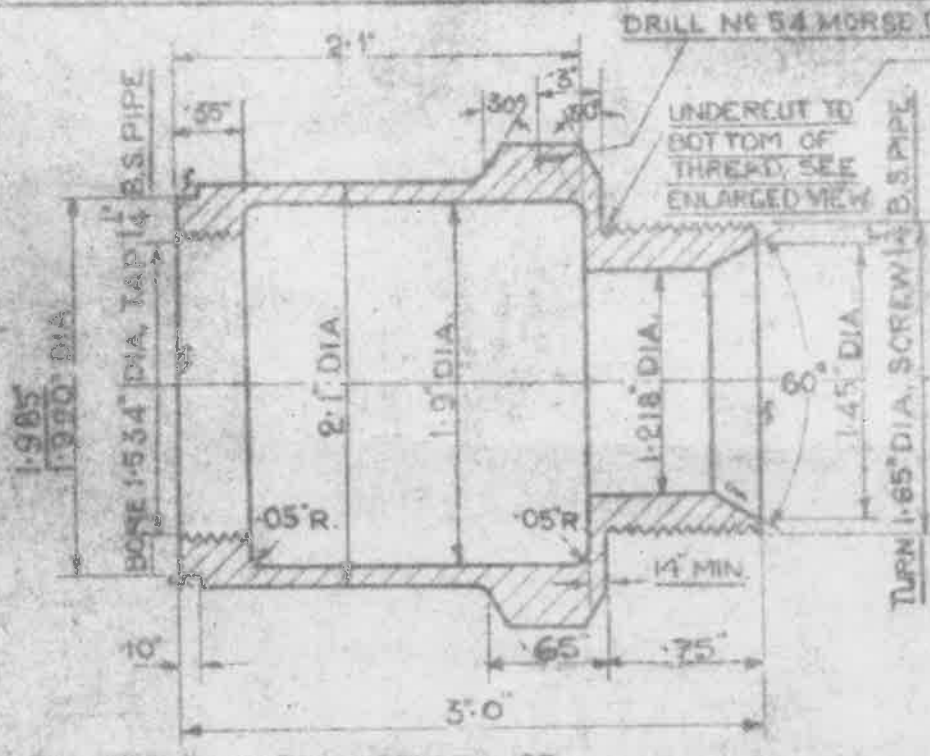
SCREW THREADS TO BE IN ACCORDANCE WITH B.S. SPEC: 84-1940 FOR MEDIUM FIT.

CADMIUM PLATED TO SPEC: D.T.D. 904 (LATEST ISSUE)

**SLEEVE - PART 1**  
MATERIAL - MILD STEEL  
SPEC. 8.6 (LATEST ISSUE)

REMOVE SHARP EDGES

SCALE - FULL SIZE



DRILL NO 54 MORSE (.055)

UNDERCUT TO BOTTOM OF THREAD, SEE ENLARGED VIEW

SCREW THREADS TO BE IN ACCORDANCE WITH B.S. SPEC: 84-1940 FOR MEDIUM FIT.

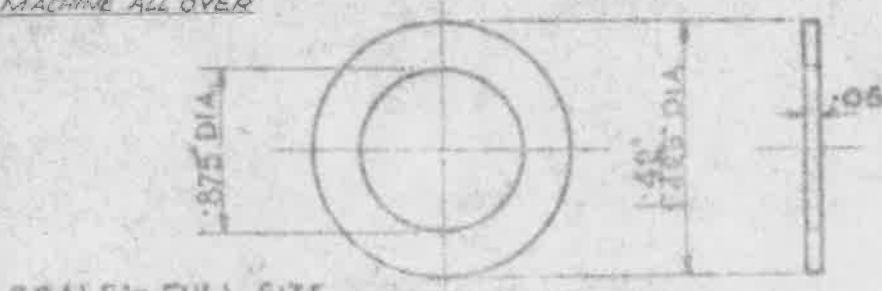
**UNION BODY - PART 6**  
MATERIAL - ALUMINIUM  
SPEC. INCL 5, L 33, OR  
D.T.D. 424 (LATEST ISSUES)

CLASS 3 CASTING, SEE DRC HEAD 15524-3 (LATEST ISSUE)

MACHINE TO MARKS

**OBSOLEScent**

MACHINE ALL OVER



FINISH - TO BE ANODISED TO SPEC: D.T.D. 910 (LATEST ISSUE)

**END PLUG - PART 4**

MATERIAL - MILD STEEL

SPEC. NO 8.6 (LATEST ISSUE)

FINISH - TO BE CADMIUM PLATE TO SPEC: D.T.D. 904 (LATEST ISSUE)

SCALE - FULL SIZE

**OBSOLEScent**

ISSUED BY DRAWING OFFICE  
DIRECTORATE OF  
TECHNICAL DEVELOPMENT  
AIR MINISTRY

TITLE - OIL THERMOMETER POCKET.  
1/2 B.S. PIPE  
ISSUES NO 1 2 3 4 5 6  
ALTERATION NO 1 2 3 4 5 6

DRAWN W.R. FOSYER  
CHECKED  
RETRAF G.H.

MO. NO. 29	MO. NO. 29	MO. NO. 29	MO. NO. 29
A/S/955	A/S/955	A/S/955	A/S/955

THIS DRAWING MAY ONLY BE USED FOR THE MANUFACTURE OF ARTICLES TO BE SUPPLIED TO THE MINISTRY OF AIRCRAFT PRODUCTION.

MINISTRY OF AIRCRAFT PRODUCTION

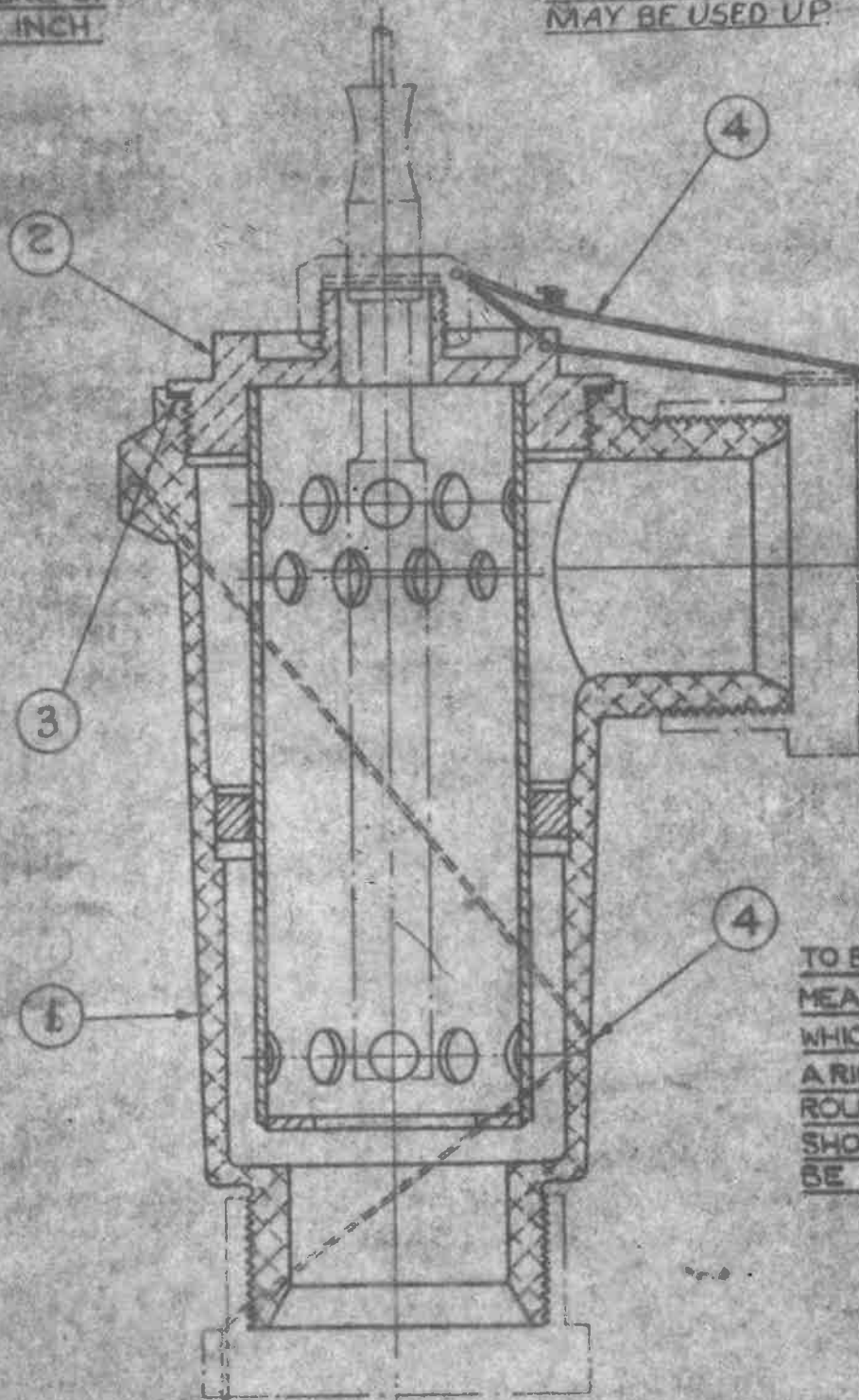
AGS No. 964/M

SHEET No. 1

No. OF SHEETS 3

TEST PRESSURE, THE COMPLETE POCKET IS TO WITHSTAND A HYDRAULIC TEST PRESSURE OF 50 LB PER Q INCH.

**OBSOLESCE** NO FURTHER MANUFACTURE - EXISTING STOCKS MAY BE USED UP.



TO BE LOCKED BY MEANS OF A WIRE WHICH DESCRIBES A RIGHT HAND HELIX ROUND JOINT AS SHOWN. ENDS TO BE BENT OVER.

**ELBOW TYPE,**  
A.G.S. 964/M

PART NO	A.G.S. NO	DESCRIPTION.	NO OFF	REMARKS.
1	964/M/1	BODY CASTING.	1	
2	964/M/2	SLEEVE.	1	
3	N.D.	FIBRE WASHER	1	2 1/2" x 1 1/2" x 1/8" OX 3/2
4	N.D.	LOCKING WIRE.	AS REQD	SEE A.G.S. NO 969

ISSUED BY DRAWING OFFICE  
DIRECTORATE OF  
TECHNICAL DEVELOPMENT  
MINISTRY OF  
AIRCRAFT PRODUCTION

TITLE - OIL THERMOMETER POCKET  
1/4" B.S PIPE  
ISSUE NO 2  
ALTER NO 1  
AGS 964/M

DRAWN C. G. Allen  
TRACED B. 29-10-42  
CHECKED  
APPROVED

SCREW THREADS TO BE  
IN ACCORDANCE  
WITH BS SPEC: 84 - 1940,  
FOR MEDIUM FIT

MINISTRY OF  
SUPPLY

AGS.No 964/M

SHEET No 2

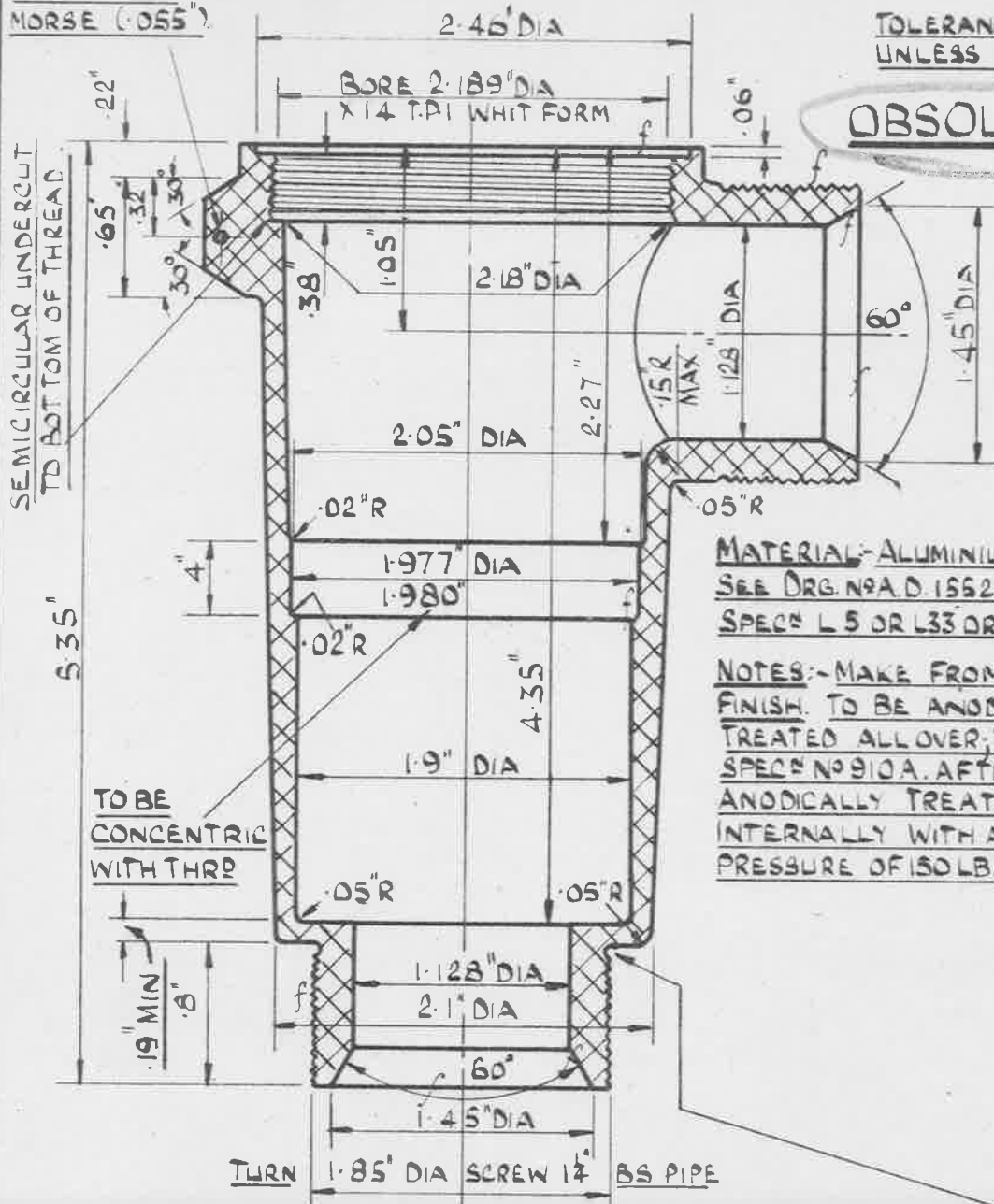
NO OF SHEETS 3

DRILL NO 54  
MORSE (.055")

TOLERANCE TO BE ±.005"  
UNLESS OTHERWISE STATED

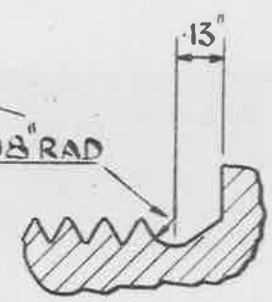
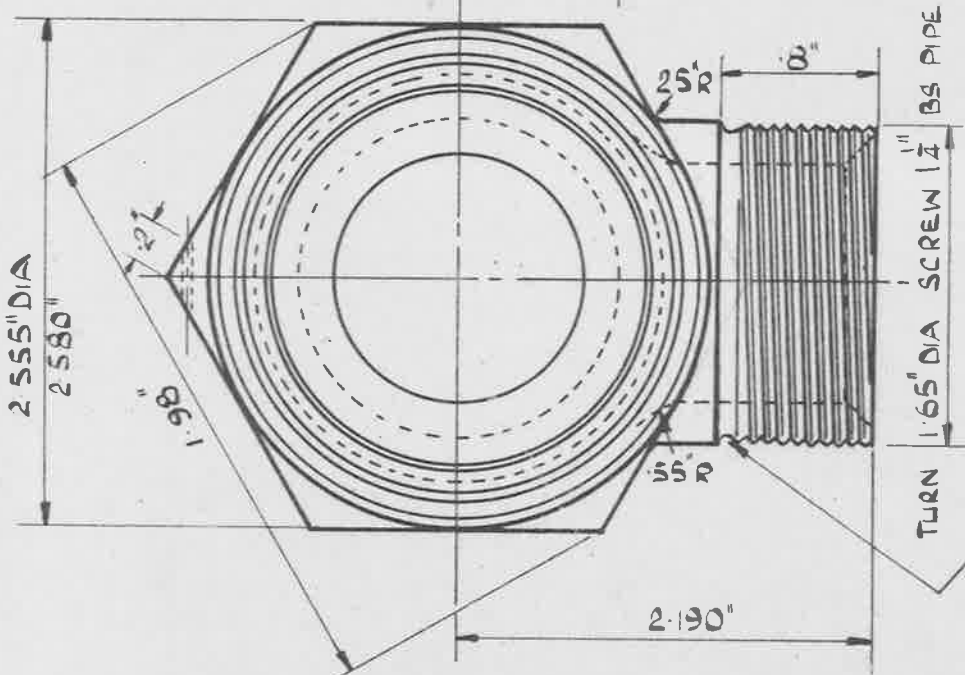
**OBSOLESCE**

SEMICIRCULAR UNDERCUT  
TO BOTTOM OF THREAD



MATERIAL - ALUMINIUM (CLASS 3 CASTING,  
SEE DRG. NO A.D. 15528-3 LATEST ISSUE.)  
SPEC: L 5 OR L33 OR D.T.O 424 (LATEST ISSUE.)

NOTES: - MAKE FROM DIE CASTING.  
FINISH TO BE ANODICALLY  
TREATED ALL OVER TO D.T.O  
SPEC NO 910A. AFTER  
ANODICALLY TREATING TEST  
INTERNALLY WITH A HYDRAULIC  
PRESSURE OF 150 LB./SQ. (GAUGE).



SCRAP SECTION  
SHOWING UNDERCUT TO  
BOTTOM OF THREAD.  
SCALE: - DOUBLE FULL  
SIZE.

**BODY CASTING PART 1.**

SCALE: - FULL SIZE

MACHINE TO F MARKS

ISSUED BY  
ROYAL  
AIRCRAFT  
ESTABLISHMENT

TITLE: - OIL THERMOMETER  
POCKET 1/4" BS PIPE

RETRACED  
GOVERNMENT  
AIRCRAFT  
FACTORY  
25.1.50

ISSUE NO	1	2	3	4
ALTERATION NO				

SCREW THREADS TO BE IN ACCORDANCE WITH B.S. SPEC: 84-1040 FOR MEDIUM FIT.

THE ECCENTRICITY OF THE HOLE TO THE 1/8 B.S PIPE THREAD TO BE WITHIN .003"

MINISTRY OF AIRCRAFT PRODUCTION.

AGS. No 964

SHEET No 3 (No of SHEETS)

OBSOLESCE

CAP TO BE M/C ALL OVER

TURN .850" DIA. SCREW 8 B.S. PIPE.

SEMICIRCULAR UNDERCUT TO BOTTOM OF THREAD.

16 SWG 1 1/2 DIA. STEEL PIPE WELDED INTO POSITION AS SHOWN.

10 - 32 DIA. HOLES ON EACH PITCH CIRCLE STAGGERED HOLES EQUALLY SPACED.

STEEL RING SPOT WELDED INTO POSITION AS SHOWN.

TO BE CONCENTRIC WITH THREAD.

END PLUG INSERTED HERE AND WELDED INTO POSITION AS SHOWN.

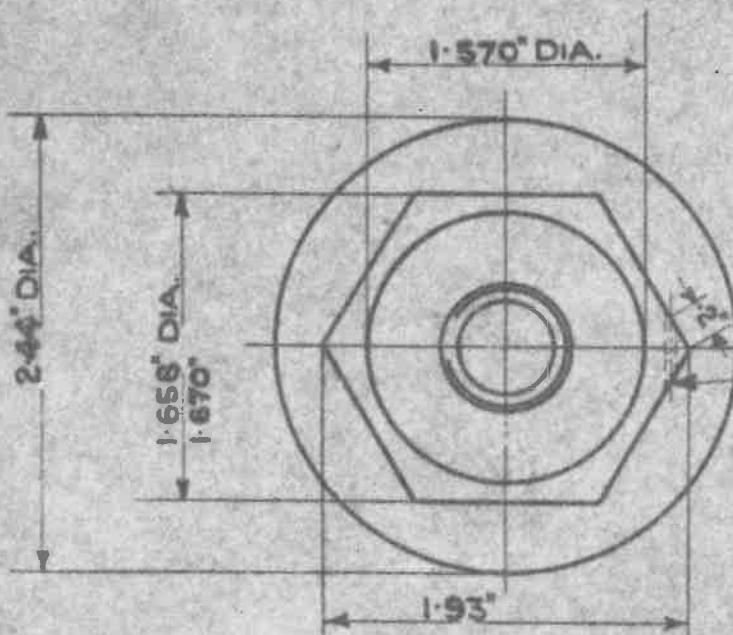
MATERIAL:- MILD STEEL SPEC# 5.6 & 2T.26 (LATEST ISSUE).

CADMIUM PLATED TO SPEC# D.T.D.904 (LATEST ISSUE)

REMOVE SHARP EDGES.

DRILL No 54 MORSE (.055")

TOLERANCE TO BE ± .005 UNLESS OTHERWISE STATED



SLEEVE . PART 2.

SCALE:- FULL SIZE.

MACHINE TO f MARKS

ISSUED BY DRAWING OFFICE  
DIRECTORATE OF  
TECHNICAL DEVELOPMENT  
MINISTRY OF AIRCRAFT  
PRODUCTION.

TITLE:- OIL THERMOMETER POCKET.  
1/8 B.S. PIPE.

ISSUE NO	1	2	3
ALTERS NO			

DRAWN.	TRAC
C. f. allen	10-10-41
CHECKED	APPROVE