

TECHNICAL MANUAL

PACKAGING INSTRUCTIONS TYPES B-3 AND B-6A DRIFTMETERS FSC 6605

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1 PURPOSE.

To provide instructions and material requirements necessary for conditioning and packaging Types B-3 and B-6A Driftmeters.

2 APPLICABLE PUBLICATIONS.

The following publications, of the issue in effect on the date of invitation for bid, or on date the packaging operation is performed by Air Force activities, form a part of this Technical Manual.

2.1 Specifications:

FEDERAL

L-P-378 Plastic Sheet and Strip, Thin Gauge, Polyolefin

PPP-B-601 Boxes, Wood, Cleated-Plywood

PPP-C-1120 Cushioning Material, Uncompressed Bound Fiber, for Packaging

PPP-T495 Tubes, Mailing and Filing

MILITARY

MIL-P-116 Preservation, Methods of

MIL-B-117 Bags, Sleeves and Tubing - Interior Packaging

MIL-D-3464 Desiccant, Activated, Bagged, Packaging Use and Static Dehumidification

2.2 Drawings:

MS20003 Indicator-Humidity

MS24485 Packaging Cushion Pad B-3 and B-6A Driftmeters (MAAMA Drawings 57M1F1687 and 57M1F1785)

3 REQUIREMENTS FOR CONDITIONING AND PACKAGING.

3.1 Prior to packaging, driftmeters will be conditioned as follows:

3.1.1 Engage azimuth control knob with pointer at zero on the dial (on type B-3 secure knob with small cord).

3.1.2 Cage gyro with caging control taped securely in the caged position.

3.1.3 Position eye-piece assemblies as follows:

3.1.3.1 Type B-3 high power (3X) in ocular housing holder and low power (1X) in storage position.

3.1.3.2 Type B-6A low power (1X) in ocular housing and high power (3X) in storage position.

3.1.4 Position filter control handle close to head of casting.

3.1.5 Place protective cover over eye-piece and over tube end.

3.1.6 Provide eight each dehydrator plugs (6605-304-7027) for packaging with each type B-6A Driftmeter.

3.2 Driftmeters will be preserved in accordance with Method II of Specification MIL-P-116 as follows:

3.2.1 Refer to Table I to determine type (B-3 or B-6A) and tube length of the driftmeter to be packaged.

3.2.2 Refer to Table II and assemble specified materials in the types and quantities indicated opposite the type and tube length of the driftmeter to be packaged.

3.2.3 Fabricate Style A cleated plywood box conforming to Specification PPP-B-601 and Table I.

3.2.4 Flat pads conforming to Specification PPP-C-1120, Type III (Table II, columns 9 to 13 inclusive) are positioned in the box as follows: (See figure 1). (Flat pads can be cut from 72 x 24 x 2 sheet stock, FSN 8135-543-6844 or from 72 x 36 x 2 sheet stock, FSN 8135-985-7271).

3.2.4.1 Position one each of column 9 and 10, and two each of column, 11 in one end of the box (Driftmeter head section).

3.2.4.2 Position one each of column 9 and 12, and two each of column 13 in the other end (Driftmeter tube end).

3.2.5 Fabricate barrier bag in accordance with Specification MIL-B-117, Type I, Class E to the dimensions indicated in Table II, column 7. Place barrier bag in container. Shape sides, ends and bottom to fit snugly against the flat cushion pads (see figure 2).

3.2.6 Place one 8-unit bag or equivalent of desiccant in the cavities in the bottom halves of the molded cushion pads. Position bottom halves of the molded cushion pads in the barrier bag. (Head section molded pads over the large flat pads, tube end molded pads over the small flat pads). (See figure 3).

CAUTION

The 3-inch round openings in both molded pads are off center. It is important that the opening in the head section molded pad be in alignment with the opening in the tube end molded pad.

3.2.7 Protect the driftmeter head section from abrasion by the use of a suitable neutral wrapping material. Polyethylene film 0.0015 inches thick conforming to Specification L-P-378 is recommended.

3.2.8 Assemble telescopic paper tubes, conforming to Specification PPP-T-495, Type 1, Class 1, as instructed in figure 7. If necessary, cut tubes to exact length indicated in Table II, column 5. When necessary to cut paper tubes, cut shall be made at the female end. Place the required tube length over the Driftmeter tube with the male end toward the Driftmeter Head Section.

3.2.9 Place the Driftmeter (with paper tube) in the bottom halves of the molded pads. Position the Driftmeter head section to fit the contours of the molded cushion. (See figure 4).

3.2.10 Place top halves of molded pads over the corresponding bottom halves. Two packages, each plainly marked as containing four dehydrator plugs, shall be placed in the two cavities in the B-6A head section molded pad. (Dehydrator plugs do not accompany the type B-3 Driftmeter). Place one 8-unit bag or equivalent of desiccant in the unoccupied cavity. Additional 8-unit bags or equivalent required to complete the total specified in Table II, column 8, will be attached to and spaced evenly along the paper tube. Place humidity indicator (MS20003, Stock No. 6685-752-8240) in the barrier bag. (See figure 5).

3.2.11 Evacuate air and seal barrier bag closure. Fold excess bag material neatly and press firmly on the molded cushion pads. (Place remaining flat pads (Table II, columns 10 and 12) over the head section and tube end, respectively. (See figure 6).

3.2.12 Fasten box lid in accordance with approved methods. Box lid will be plainly marked "OPEN THIS SIDE." (Strapping will be applied only when overseas surface shipments are made).

4 REUSE OF CONTAINER AND PACKAGING MATERIALS:

4.1 Organizations receiving Driftmeters shall use extreme care to prevent damage to the barrier bag and box lid when opening. Barrier bag will be cut along the top as close to the seam as possible. Container and packaging materials will be reused in accordance with paragraph 4.2 below.

4.2 Repairable or TOC Driftmeters shall be conditioned, preserved and packaged as specified in paragraph 3 above, except dehydrator plugs shall be omitted. (See paragraph 3.1.(6) and 3.2.(10)). Cushioning materials, paper tubes, and container from which a serviceable Driftmeter was removed, shall be utilized to package identical repairable or TOC Driftmeter. The barrier bag shall be reused unless examination reveals defects which render it unsatisfactory for the intended purpose. Desiccant and humidity indicator shall be discarded and replaced.

4.3 Organizations in CONUS generating excess containers and packaging materials shall ship such excess to OC-ALC, Attn: Packaging and Materials Handling Control Branch (DSP), Tinker AFB,

Oklahoma 73145. Shipping ticket shall be marked as follows: Materials for packaging Stock No. _____ Driftmeter.

TABLE I

DRIFTMETER DATA

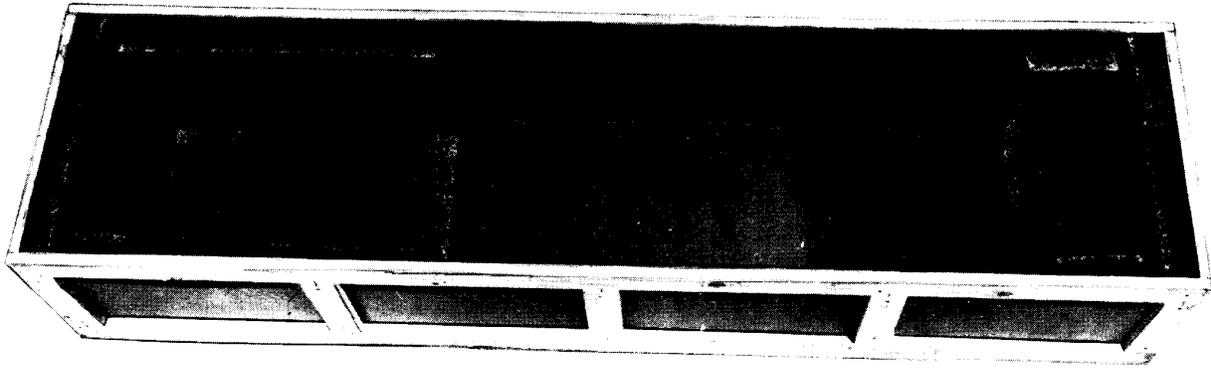
FEDERAL STOCK NO.	OLD AF STOCK NO.	TYPE	TUBE LENGTH (INCHES)	WEIGHT AND CUBE DATA	
				APPROX. WEIGHT (POUNDS)	CUBE (CU. FT.)
6605-194-2570	6234-289700	B-3	53	100	19.7
6605-194-2572	6234-289670	B-3	40	93	16.7
6605-194-2575	6234-289600	B-3	53	100	19.7
6605-194-2576	6234-289570	B-3	40	93	16.7
6605-194-2577	6234-289580	B-3	51	100	19.7
6605-194-2578	6234-289560	B-3	27	85	13.7
6605-194-2579	6234-288118	B-3	40	93	16.7
6605-194-2582	6234-289724	B-3	78	125	25.4
6605-194-2584	6234-288121	B-3	53	100	19.7
6605-194-2585	6234-289722	B-3	73	122	24.3
6605-194-2586	6234-289680	B-3	51	100	19.7
6605-194-2587	6234-288120	B-3	51	100	19.7
6605-194-2588	6234-289730	B-3	78	125	25.4
6605-194-2589	6234-289660	B-3	27	85	13.7
6605-514-3635	6234-289675	B-3	48	97	18.5
6605-514-3641	6272-600000	B-6A	27	80	13.7
6605-514-3648	6272-600005	B-6A	43	87	17.4
6605-515-4762	6272-600055	B-6A	83	128	26.6
6605-515-4764	6272-600010	B-6A	51	95	19.7
6605-515-4765	6272-600035	B-6A	48	90	18.5
6605-515-4766	6272-600025	B-6A	73	120	24.3
6605-515-4767	6272-600050	B-6A	78	123	25.4
6605-531-4992	6272-600040	B1	48.2	90	18.5

TABLE II

DRIFTMETER TYPES - TUBE LENGTHS - PACKAGING MATERIAL REQUIREMENTS

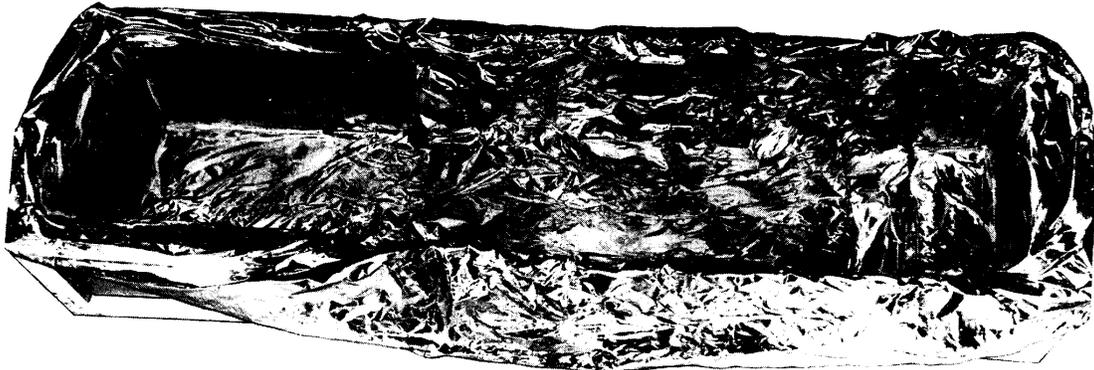
Type	Tube Lgth	Packaging Material Requirements											
1	2	3	4	5		6	7	8	9-13				
Type B-3 Type B-6A	Driftmeter Tube Lengths (Inches)	Molded Cushion (Set) B-3 Dwg. MS24485 Stock No. 8135-680-2007	Molded Cushion (Set) B-6A Dwg. MS24485 Stock No. 8135-680-1997	Paper Tube Dwg. MS24477 Stock No. 8135-680-2320 Exact overall length and qty required to obtain lgth. (refer to Paragraph 3.b.(8))	Style A Box-Inside 16" H x 20" W x length as shown	Barrier Bag. 36" Wide x Length as shown	Desiccant (8-Unit Bag) Stock No. 6850-264-6571	Pads conforming to Spec PPP-C-1120 - Type III					
				Exact Lgth	Tubes Req'd No				Pad-Flat 16" x 20" x 2" (Both Box Ends)	Pad-Flat 20" x 26" x 2" (Top & Bottom-Head Section)	Pad-Flat 12" x 26" x 2" (Sides-Head Section)	Pad-Flat 7" x 20" x 2" (Top & Bottom-Tube End)	Pad-Flat 7" x 12" x 2" (Sides - Tube End)
B-3	27	1	0	28	1	58	85	15	2	2	2	2	2
B-6A	27	0	1	28	1	58	85	15	2	2	2	2	2
B-3	40	1	0	41	2	71	98	16	2	2	2	2	2
B-6A	43	0	1	44	2	74	101	17	2	2	2	2	2
B-3	48	1	0	49	2	79	106	17	2	2	2	2	2
B-6A	48	0	1	49	2	79	106	17	2	2	2	2	2
B-3	51 to 53	1	0	54	2	84	111	17	2	2	2	2	2
B-6A	51 to 53	0	1	54	2	84	111	17	2	2	2	2	2
B-3	73	1	0	74	3	104	131	19	2	2	2	2	2
B-6A	73	0	1	74	3	104	131	19	2	2	2	2	2
B-3	78	1	0	79	3	109	136	19	2	2	2	2	2
B-6A	78	0	1	79	3	109	136	19	2	2	2	2	2
B-3	83	1	0	84	4	114	141	20	2	2	2	2	2
B-6A	83	0	1	84	4	114	141	20	2	2	2	2	2

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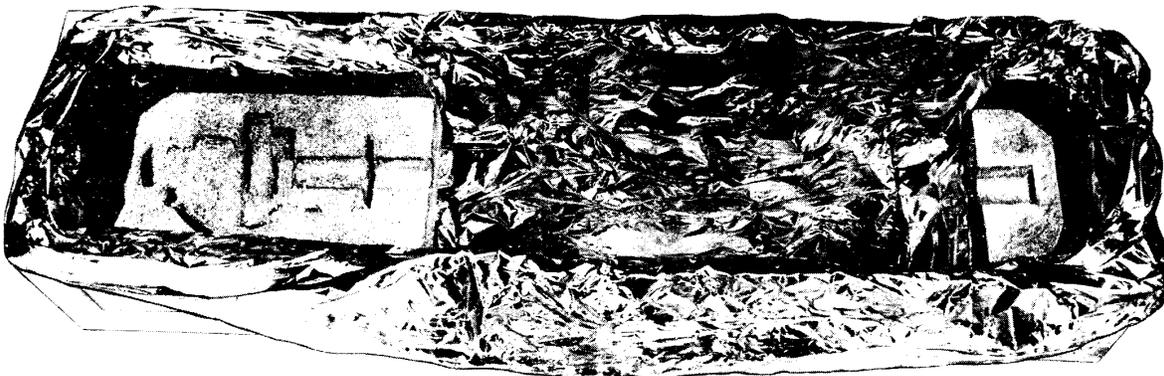
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Figure 1.



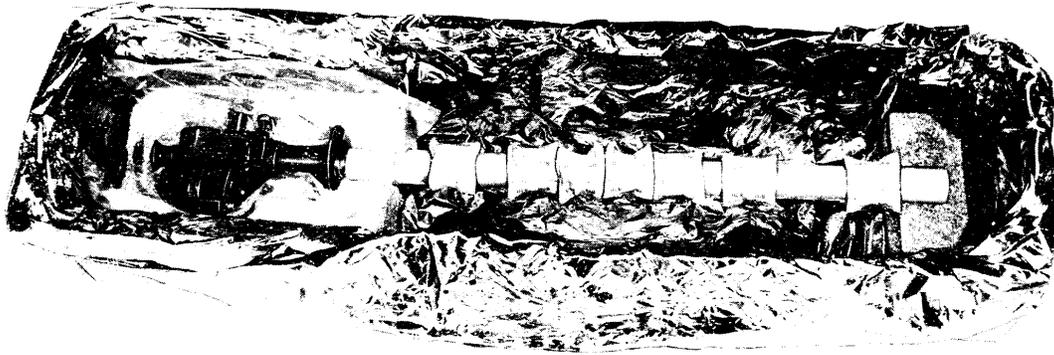
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Figure 2.



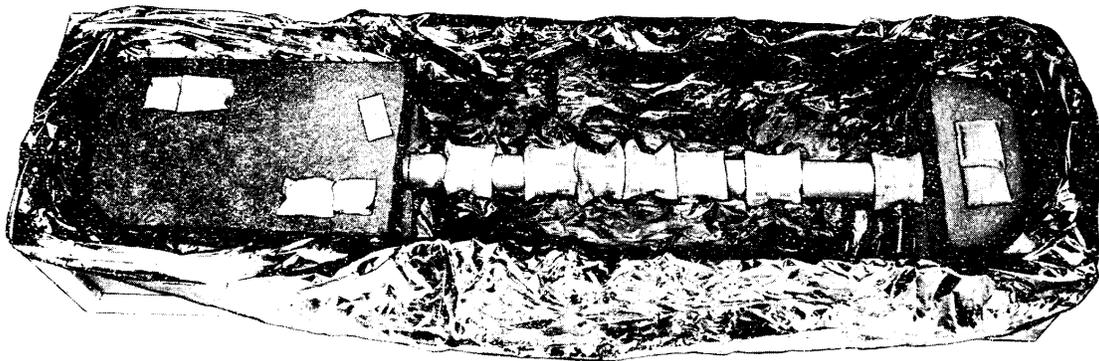
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Figure 3.



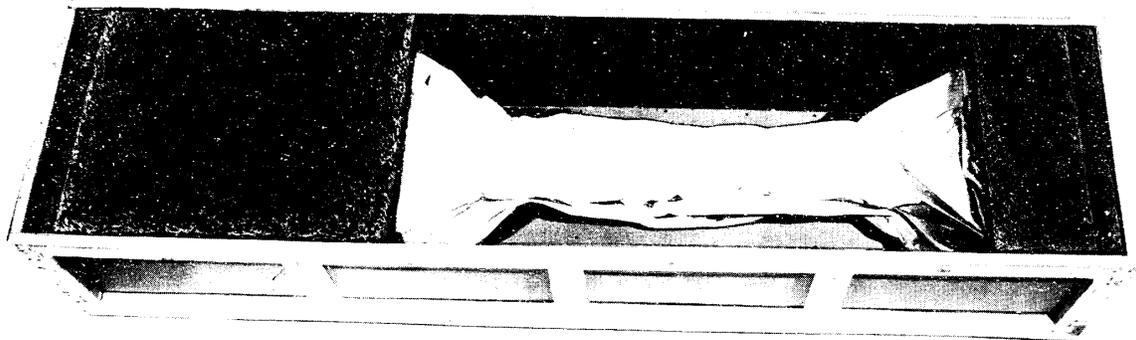
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Figure 4.



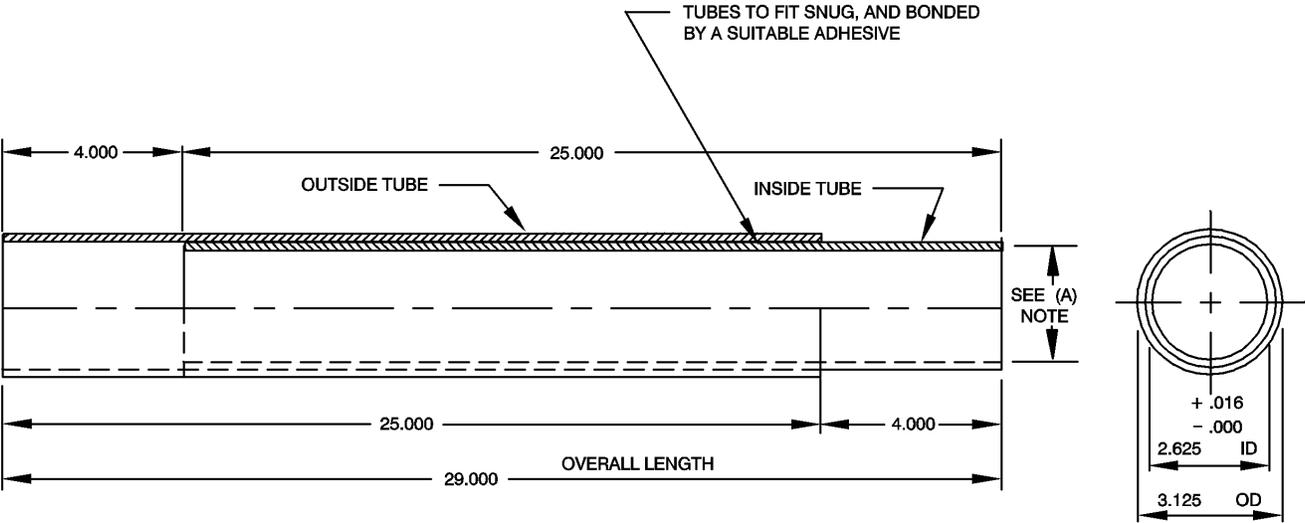
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Figure 5.



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Figure 6.



NOTE:

- (A) INNER SURFACE OF INSIDE TUBE SHALL BE NEUTRAL WITHIN THE PH RANGE OF 5.0 TO 8.0.
- (B) TUBES SHALL MEET THE MATERIAL REQUIREMENTS OF FEDERAL SPECIFICATION PPP - T - 495, TYPE I, CLASS 1.
- (C) DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCE: DECIMALS ± .016.

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Figure 7. Tube - Paper, Drift Meter Shipping

THE END

