



Weights and Measures  
(National Standards)  
Act 1960-1966

Weights and Measures  
(Patterns of Instruments)  
Regulations

CANCELLED

0(3)  
31-12-90

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

## *Certificate of Approval*

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CERTIFICATE NUMBER 8/24

This Certificate replaces Certificate No 8/24 dated 17 October 1972. \*

In respect of the pattern of

Zero Vacuum Farm Milk Tank and Variants.

Submitted and  
manufactured by:

Frigrite Production Pty Ltd,  
Grange Road,  
Cheltenham,  
Victoria. 3190.

This is to certify that the pattern and variants of the instrument illustrated and described in this Certificate have been examined by the National Standards Commission under the provisions of the abovementioned Regulations and have been approved as being suitable for use for trade.

The pattern and variant 1 were approved on 10 October 1972.  
Variant 2 was approved on 10 January 1973.

The pattern and variants are marked "NSC No 8/24" and comply with the General Specifications for Measuring Instruments to be Used for Trade, excluding the requirements relating to the fitting

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\* NOTE: Figures 8/24 - 1, 2, 3 and 5 of the previous issue form part of the Certificate and must be retained.

17/1/73

Cont'd over

of a level indicator and the number and location of level marks.

Instruments purporting to conform to this Certificate shall be tested in accordance with the procedure specified in the General Notes.

This Certificate is limited to instruments with Serial Nos 31-8-15, 31-8-11, 31-7-87, 33-1-56, and G 34-6-35.

This Certificate comprises:

Pages 1 to 4 dated 17 January 1973.

Figures 8/24 - 1, 2, 3 and 5 dated 17 October 1972.

Figure 8/24 - 4 dated 17 January 1973.

Date of issue 17 January 1973.

Signed



A person authorized by the Commission  
to sign Certificates under the  
abovementioned Regulations.

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### DESCRIPTION OF PATTERN

The pattern (see Figures 1, 2 and 3) is of a refrigerated farm milk tank having a capacity of 4500 litres and is known as the Zero Vacuum Farm Milk Tank.

It consists of a nearly horizontal reinforced stainless steel cylinder, having a wall thickness of 0.109 inch, and sheathed in an outer casing of stainless steel 0.040 inch thick. The space between is filled with insulating material.

The refrigerated lower portion of the tank is of dimple plate, to which six adjustable legs are attached.

The internal diameter of the tank is 1320 mm  $\pm$  25 mm and the overall length 3710 mm  $\pm$  50 mm (see Figure 2). The tank slopes toward the 2-inch outlet pipe, which is fitted with an external 2-inch straight-through valve.

On the top of the tank (see Figure 2) are fitted agitator motors, temperature-measuring equipment, milk-entry holes, the auxiliary dipstick and socket (see Figure 5) and one manhole incorporating the main dipstick with a slotted socket (see Figure 4) to facilitate the removal of the dipstick in confined surroundings.

A notice adjacent to the manhole states "measurement incorrect if the readings on the two dipsticks differ".

The two dipsticks cannot be interchanged between the two sockets (see Figures 4 and 5).

The tank is level when the two level marks at approximately half capacity (see Figure 1), one on each side of the outer cylindrical shell at the discharge end, are in the same horizontal plane as the level mark on the rear of each of the two dipsticks.

DESCRIPTION OF VARIANTS

## 1. In other capacities, namely:

<u>Model</u>	<u>Capacity</u>	<u>Internal Diameter</u>	<u>Overall Length</u>	<u>Sheet Thickness of Cylinder</u>	<u>Sheet Thickness of Ends</u>	<u>Number of Legs</u>
	litres	mm ± 25	mm ± 50	inch	inch	
ZV 225	2250	975	3480	0.078	0.078	6
ZV 375	3750	1320	3300	0.109	0.093	6

## 2. In another capacity, namely:

<u>Model</u>	<u>Capacity</u>	<u>Internal Diameter</u>	<u>Overall Length</u>	<u>Sheet Thickness of Cylinder</u>	<u>Sheet Thickness of Ends</u>	<u>Number of Legs</u>
	litres	mm ± 25	mm ± 50	inch	inch	
ZV 760	7560	1320	6220	0.109	0.093	12

GENERAL NOTES1. Test Procedures

## (a) Tanks with six legs

The rigidity of the tank structure shall be such that, when the tank is empty and supported uniformly on its four outside legs, with the two centre legs clear of the floor, the movement of the centre legs shall not exceed 0.2 mm when the tank is loaded to approximately two-thirds capacity.

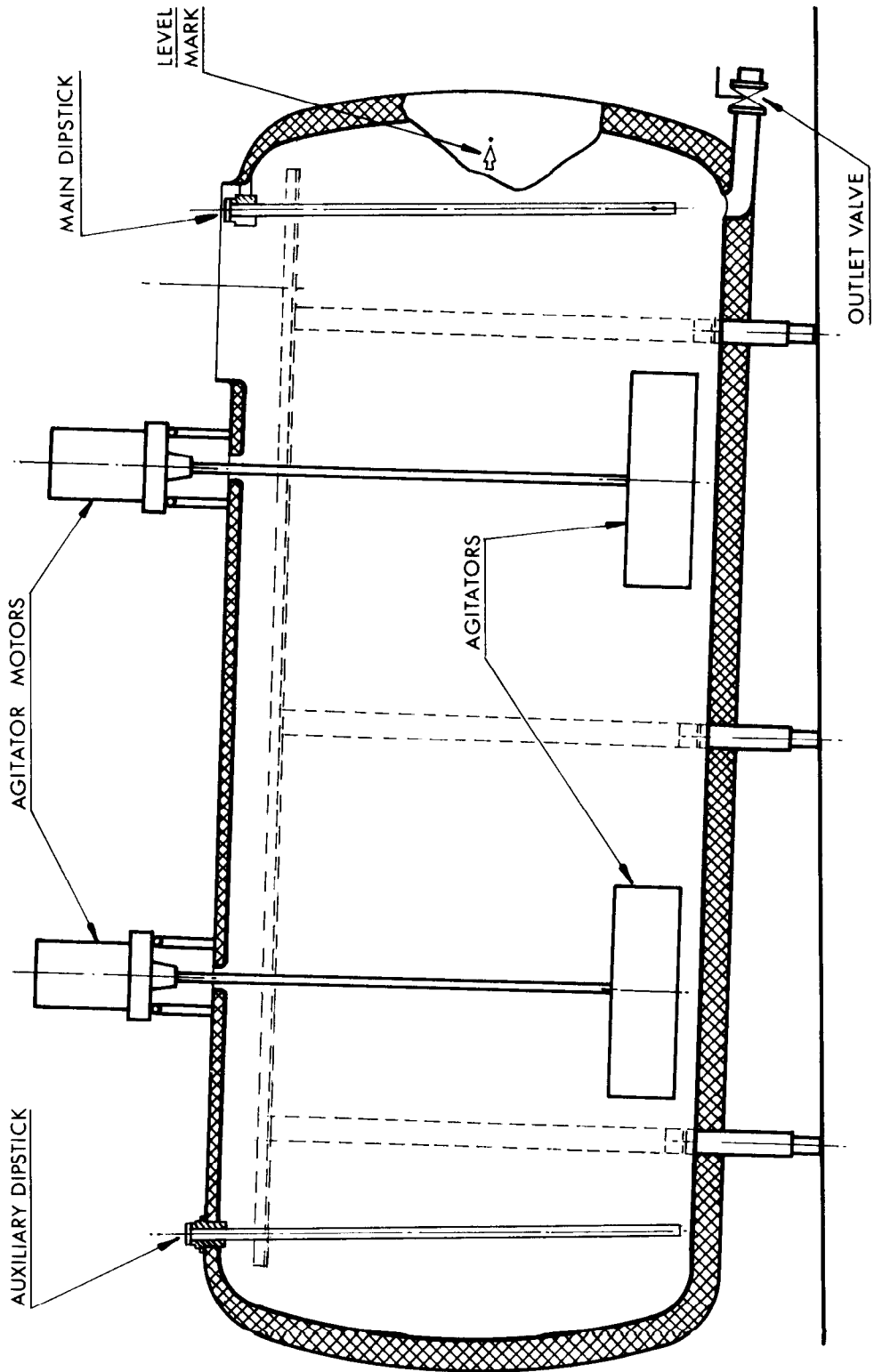
## (b) Tanks with twelve legs

The rigidity of the tank structure shall be such that, when the tank is empty and supported uniformly on its four outside legs, with the other eight legs clear of the floor, the movement of any of the centre four legs shall not exceed 0.2 mm when the tank is loaded to approximately one-third capacity.

2. Installation

Instruments shall be installed so that there is sufficient headroom to permit the auxiliary dipstick to be removed entirely from its socket.

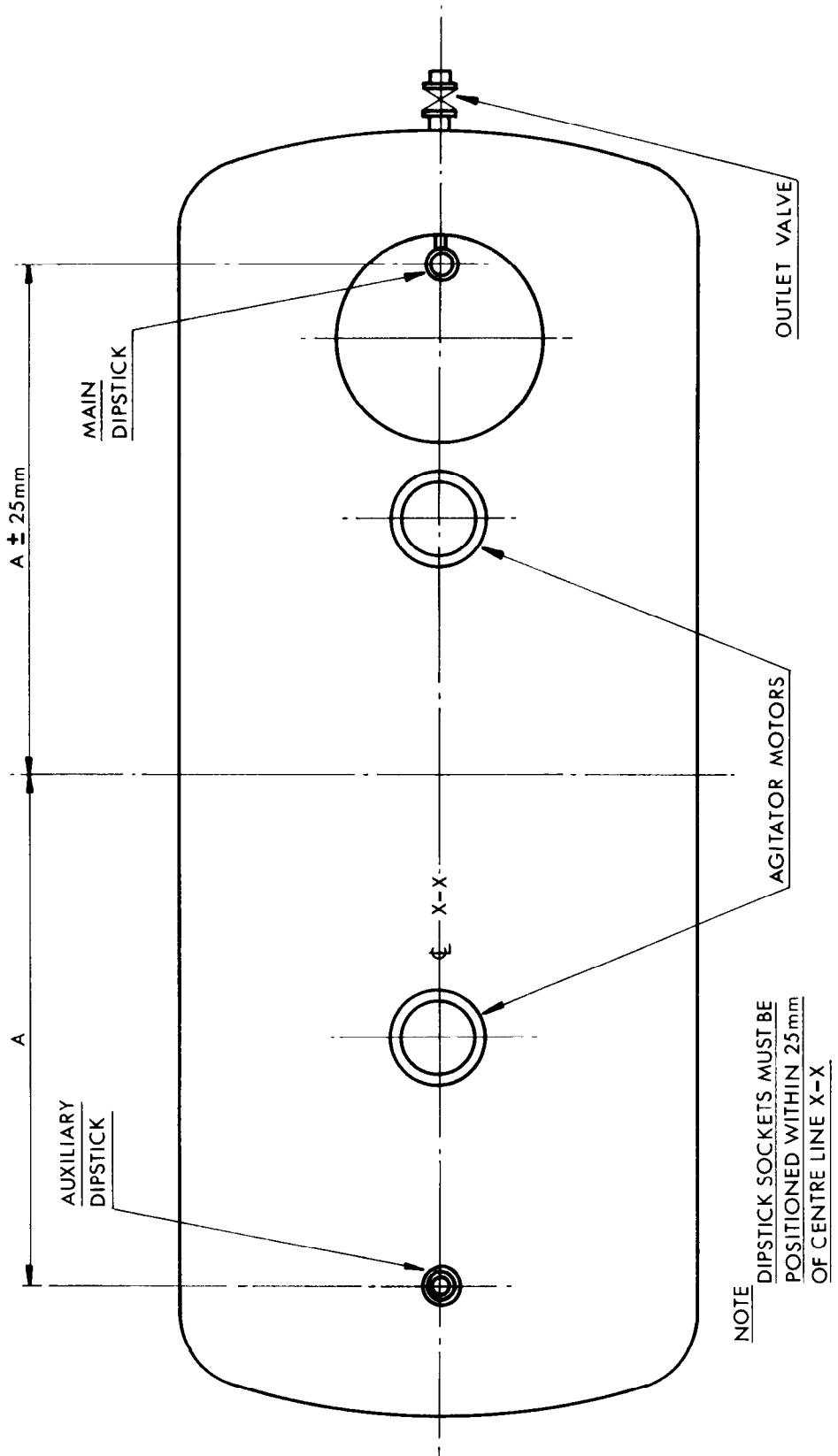
FIGURE 8/24 - 1



Cross-sectional Elevation — Side View

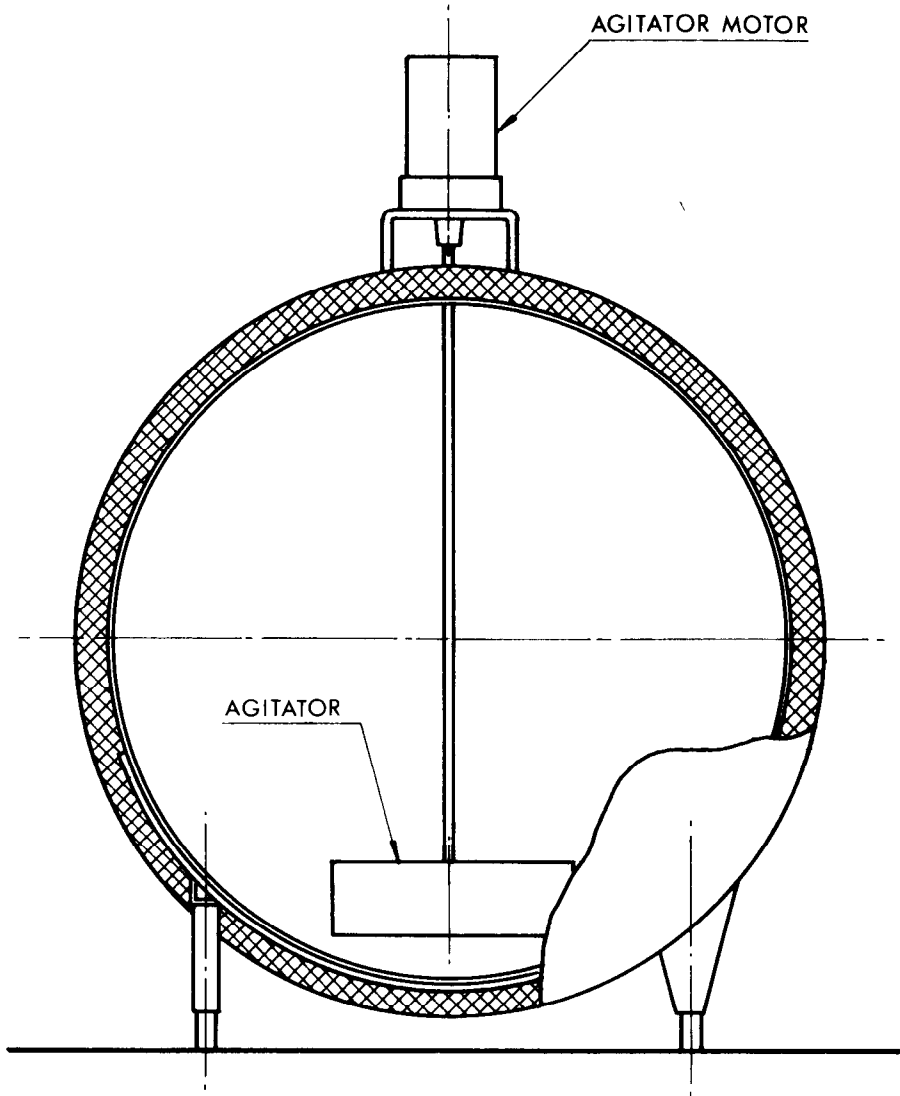
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FIGURE 8/24 - 2



Plan View

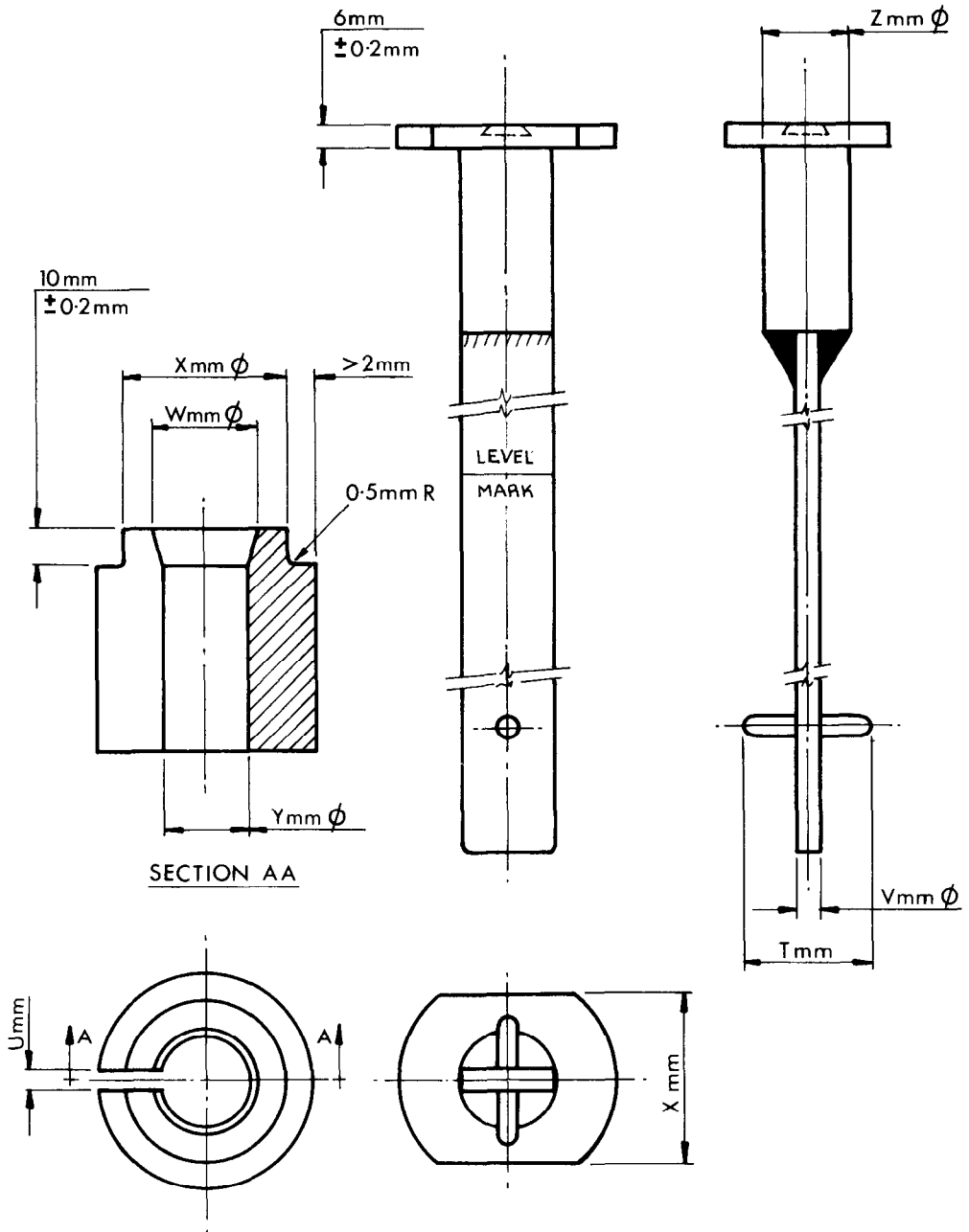
FIGURE 8/24 - 3



Cross-sectional Elevation — End View

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FIGURE 8/24 - 4



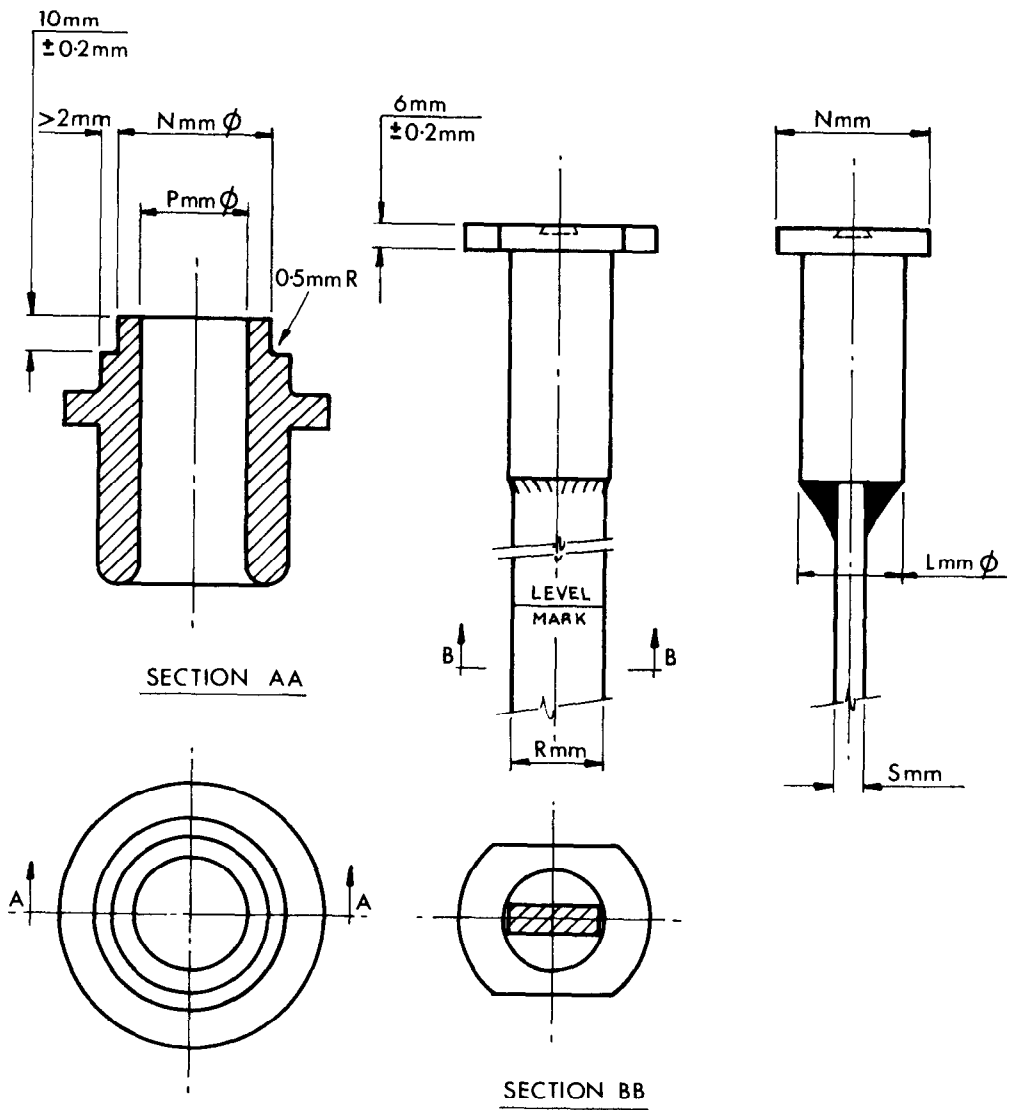
NOTE

- $V < U$
- $X - W > 10\text{mm}$
- $0.3\text{mm} < (Y - Z) < 0.7\text{mm}$
- $U < S$  (FIG 5)
- $Y < R$  (FIG 5)
- $T > P$  (FIG 5)

Main Dipstick Boss and Socket



FIGURE 8/24 - 5



NOTE

$N - P > 10\text{mm}$

$0.3\text{mm} < (P - L) < 0.7\text{mm}$

$S > U$  (FIG 4)

$R > Y$  (FIG 4)

$P < T$  (FIG 4)

Auxiliary Dipstick Boss and Socket

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