



# NATIONAL STANDARDS COMMISSION

G.H.  
5/6E/12  
24/11/87

## NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

### REGULATION 9

#### CERTIFICATE OF APPROVAL No 5/6E/12

This is to certify that an approval for use for trade has been granted in respect of the pattern of the

Diessel Model IZI DN50 Milk Flowmetering System

submitted by APV Bell Bryant Pty Ltd  
352 Macaulay Road  
Kensington Vic 3031.

#### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/92.  
This approval expires in respect of new instruments on 1/3/93.

Instruments purporting to comply with this approval shall be marked NSC No 5/6E/12.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 12/2/87

- Diessel model IZI DN50 electromagnetic milk flowmeter.

Technical Schedule No 5/6E/12 describes the pattern.

#### Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 5/6E/12 dated 24/11/87  
Technical Schedule No 5/6E/12 dated 24/11/87  
Test Procedure No 5/6E/12 dated 24/11/87  
Figures 1 to 3 dated 24/11/87



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## TECHNICAL SCHEDULE No 5/6E/12

Pattern: Diessel Model IZI DN50 Milk Flowmetering System

Submittor: APV Bell Bryant Pty Ltd  
352 Macaulay Road  
Kensington Vic 3031

### 1. Description of Pattern

A milk flowmetering system (Figure 1) approved for use with maximum and minimum flow rates of 535 L/min and 110 L/min respectively and with a minimum delivery of 900 L.

#### 1.1 The System (Figure 2)

- (i) A supply tank.
- (ii) A Puma centrifugal-type pump and a Diessel gas purging device (Figure 1) installed lower than the minimum height of the liquid in the supply tank; the pipework from the tank has a continuous fall to the pump.
- (iii) A non-return valve fitted between the pump and the meter.
- (iv) A Diessel model IZI DN50 electromagnetic milk flowmeter (Figure 1) which is vertically mounted with a 1.5 metre straight pipe installed upstream of the meter and a 0.5 metre straight pipe installed downstream of the meter.
- (v) A Diessel model ZEVO R electronic indicator/totaliser (Figure 1).
- (vi) A pneumatic Rosista butterfly shut-off valve with integral pneumatic Herion solenoid valve installed downstream of the meter (Figure 3).
- (v) A strainer and/or milk sampler may be fitted.

#### 1.2 Markings

The following information shall be clearly and permanently marked on one or more permanently attached nameplates:

Manufacturer's name or mark	
Model number	IZI DN50
Serial number	
NSC approval number	5/6E/12
Maximum flow rate	... L/min
Minimum flow rate	... L/min
Minimum delivery	... L
Priming quantity	... L
Approved for use with MILK	

#### 1.3 Verification Provision

Provision is made for the application of a verification mark.



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### TEST PROCEDURE No 5/6E/12

The instrument is to be tested with milk and the system is either primed with milk before commencing the delivery, or the priming quantity marked on the data plate is added to the quantity measured.

Note: The quantity required to prime the system shall be determined at verification and shall be stamped on the nameplate.

Complete one or more deliveries and check the volume indicator against the actual delivered volume. The results shall be within the maximum permissible errors as set out in Document 118, Second Edition, October 1986.

#### 1. Empty Compartment Test

Either;

- (a) Allow the supply to run dry during a test delivery; stop the pump motor and refill or change either the supply tank or the proving measure, then start the pump motor to allow the delivery into the proving measure to continue, or
- (b) Allow the proving measure to run dry during a test delivery.

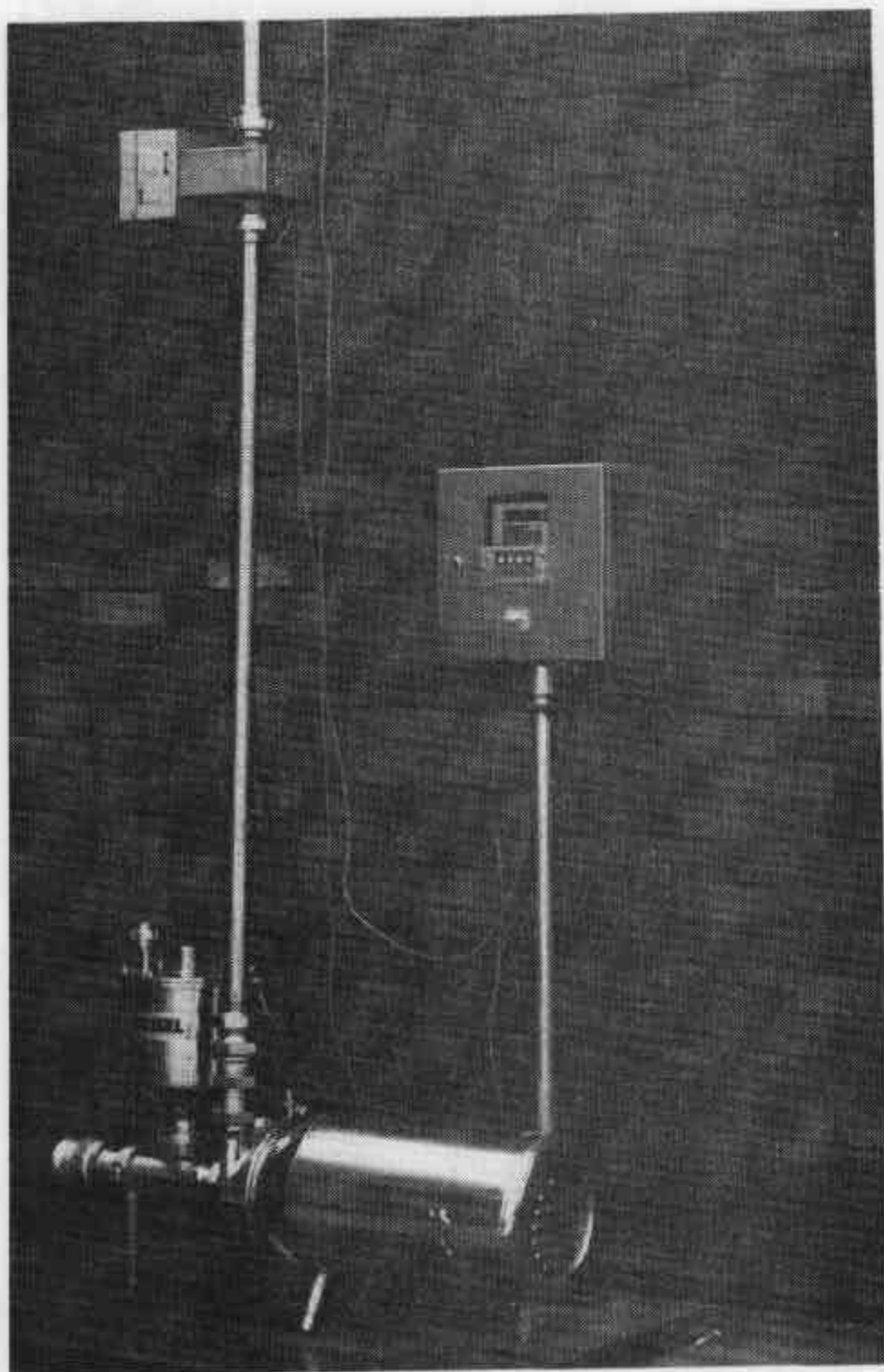
Note: This test should only be carried out where it could be expected that a tank will be completely emptied during a normal day's delivery.

#### 2. Syphoning Test

To test for syphoning or gravitational feed, stop the pump during a delivery and observe that flow of milk has stopped.

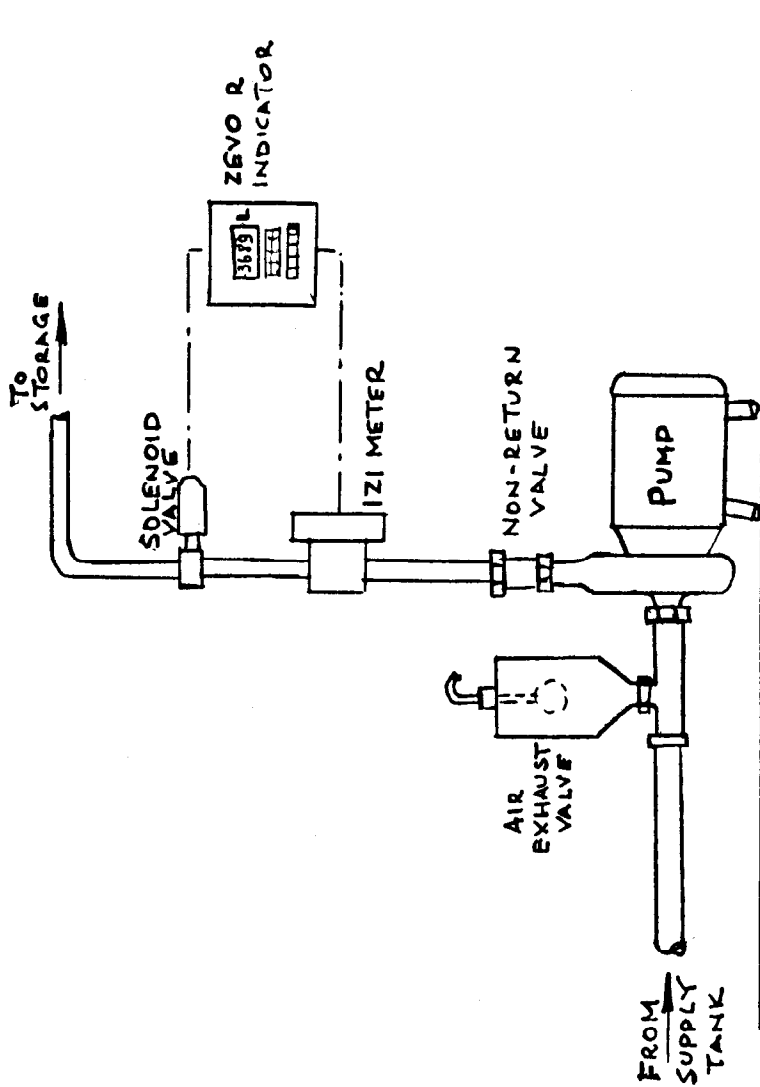
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FIGURE 5/6E/12 - 1



Diesel IZI DNSO Milk Flowmetering System

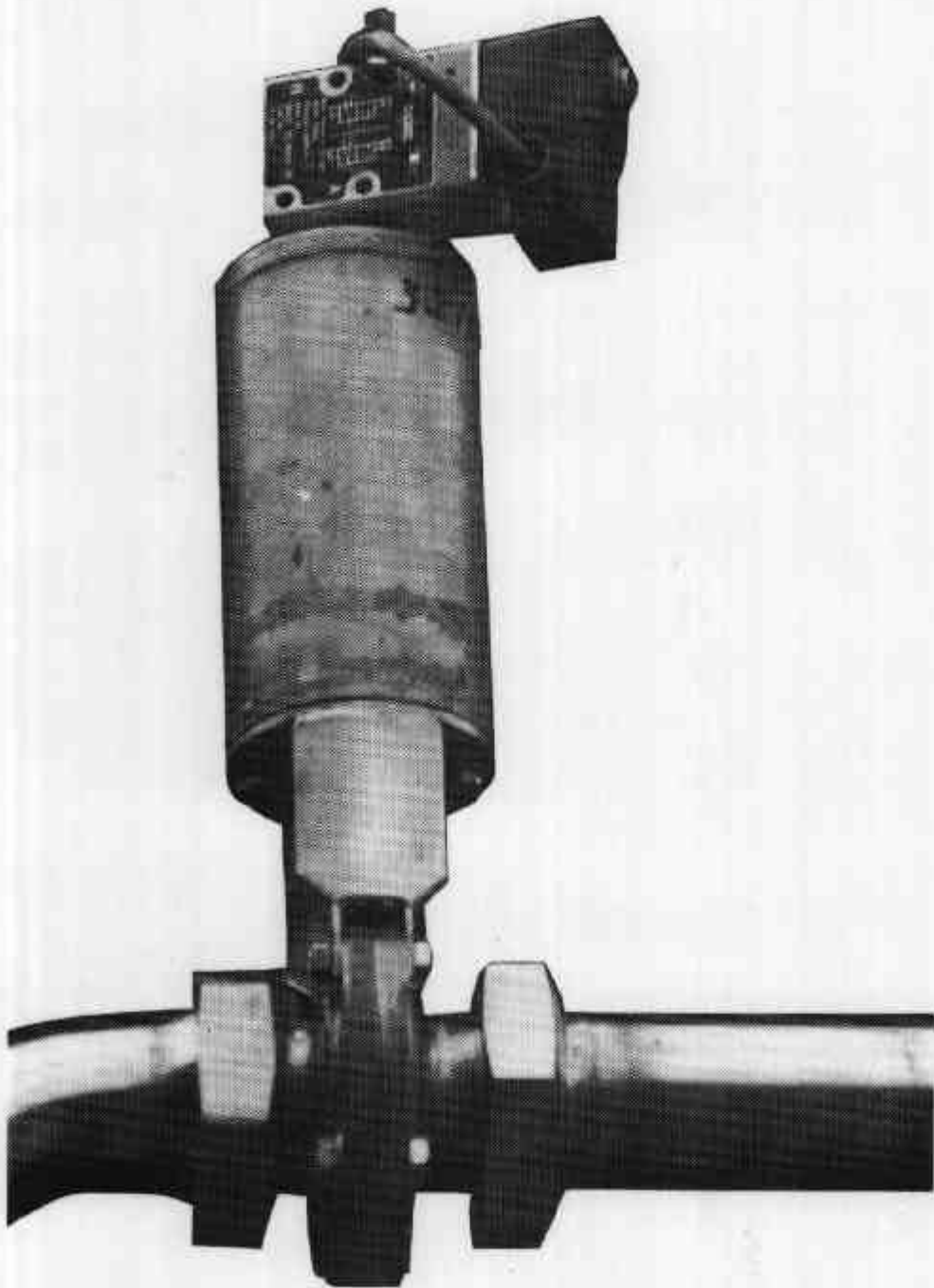
FIGURE 5/6E/12 - 2



Schematic Diagram of System

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FIGURE 5/6E/12 - 3



Solenoid Valve