



Weights and Measures  
(National Standards)  
Act 1960-1966

Weights and Measures  
(Patterns of Instruments)  
Regulations

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

# *Certificate of Approval*

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CERTIFICATE NUMBER 5/6D/13

This Certificate replaces Certificate No 5/6D/13 dated 4th August 1971. \*

In respect of the pattern of

Golden Fleece Bulk Dispensing Unit and Variants.

Submitted and  
manufactured by: Acme Oil Equipment Services Pty. Ltd.,  
253 Ingles Street,  
Port Melbourne,  
Victoria. 3207.

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 variants 1 to 7 were approved on 20th August 1968, and variants 8 and 9 were approved on 23rd May 1972.

Approval was granted on condition that all instruments conforming to this Certificate:

1. are appropriately marked NSC No 5/6D/13 and, where

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\* NOTE: Figure 5/6D/13 - 1 of the previous issue forms part of the Certificate and must be retained.

required by State legislation, with the State approval number also; and

2. comply with the General Specifications for Measuring Instruments to be Used for Trade, in respect of that part of the instrument which was not previously approved by a State.

This Certificate comprises:

Pages 1 to 5 dated 31st May 1972.

Figure 5/6D/13 - 1 dated 4th August 1971.

Figures 5/6D/13 - 2 to 5 dated 31st May 1972.

Pursuant to regulation 12 of the abovementioned Regulations, this Certificate is applicable only in the State of Victoria.

Date of issue 31st May 1972.

Signed



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

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**\*DESCRIPTION OF PATTERN**

The pattern is of a modification of a vehicle-mounted flowmeter approved in Victorian Notice of Approval No 617 and known as the Golden Fleece Bulk Dispensing Unit. The modification consists of fitting a Brodie B31  $1\frac{1}{4}$ -inch meter as approved in Victorian Notice of Approval No 654.

**\*DESCRIPTION OF VARIANTS**

1. With a Brodimatic Quantrol counter and Quantrol valve as approved in Victorian Notice of Approval No 623.
2. With up to 200 feet of Nylex 1-inch bore Type PR hose.
3. With an OPW 190V  $1\frac{1}{4}$ -inch hose nozzle, which is similar to the OPW 190V/8 hose nozzle as described in Certificate No 5/6B/13, except that the anti-drain valve retaining pressure is less than 8 psi.
4. With an OPW 1AH 1-inch automatic hose nozzle as approved in Victorian Notice of Approval No 623.
5. With an Axiom B751  $1\frac{1}{4}$ -inch manual hose nozzle as approved in Victorian Notice of Approval No 527.
6. With a Gilbarco T279/5  $1\frac{1}{4}$ -inch manual hose nozzle as approved in Victorian Notice of Approval No 623.
7. With a  $\frac{3}{4}$ -inch valve (see Figure 1) in the gas separator vent line. The valve, which is normally held open by an internal spring, can only be held closed by manual pressure on the knob on the end of the spindle. The valve gland contains no packing so as to minimize the possibility of the spindle jamming.
8. With an OPW 1190 AD automatic hose nozzle (see Figures 2 and 3).

The main valve assembly consists of a spring-loaded piston-type

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\* Approved pursuant to regulation 12.

valve with integral pressure-relief valve. The main valve is operated by a hand lever which pivots on a latch plunger, the head of which contains three steel balls. A tapered latch pin passes between the balls, causing them to protrude from the external circumference of the head of the latch plunger and latch against a shoulder.

From the external extremity of the spout a tube is connected through the spout coupling to a chamber, one side of which is closed by a flexible spring-loaded synthetic rubber diaphragm to which is attached the latch pin. The chamber is also connected through ports to a point immediately downstream of the seat of the integral anti-drain valve. With the integral anti-drain valve opened by the pressure of liquid when the main valve is opened, the flow of liquid past the restriction of the valve seat results in a venturi effect at the ports. The drop in pressure at the ports causes air to flow through the tube and through the ports to become mixed with the discharging liquid. When the level of liquid in the receiving vessel rises to and submerges the air inlet at the end of the spout, air flows from the chamber, causing a pressure drop in the chamber sufficient to move the diaphragm and withdraw the latch pin from the three balls in the latch plunger and allow the plunger to move down due to the force applied by the main valve spring, and then allow the main valve to close. The closing rate of the main valve is controlled by an adjustable dashpot.

The main valve cannot be re-opened until the hand lever has been restored to its closed position, which results in the plunger becoming latched in its normal position.

An external anti-drain valve unit with a retaining pressure of not less than 8 psi is fitted upstream of the main valve. The integral anti-drain valve downstream of the main valve has a retaining pressure of not less than 1 psi.

A swivel coupling which allows the nozzle to be rotated about the axis of the hose may be fitted between the hose and the external anti-drain valve unit.

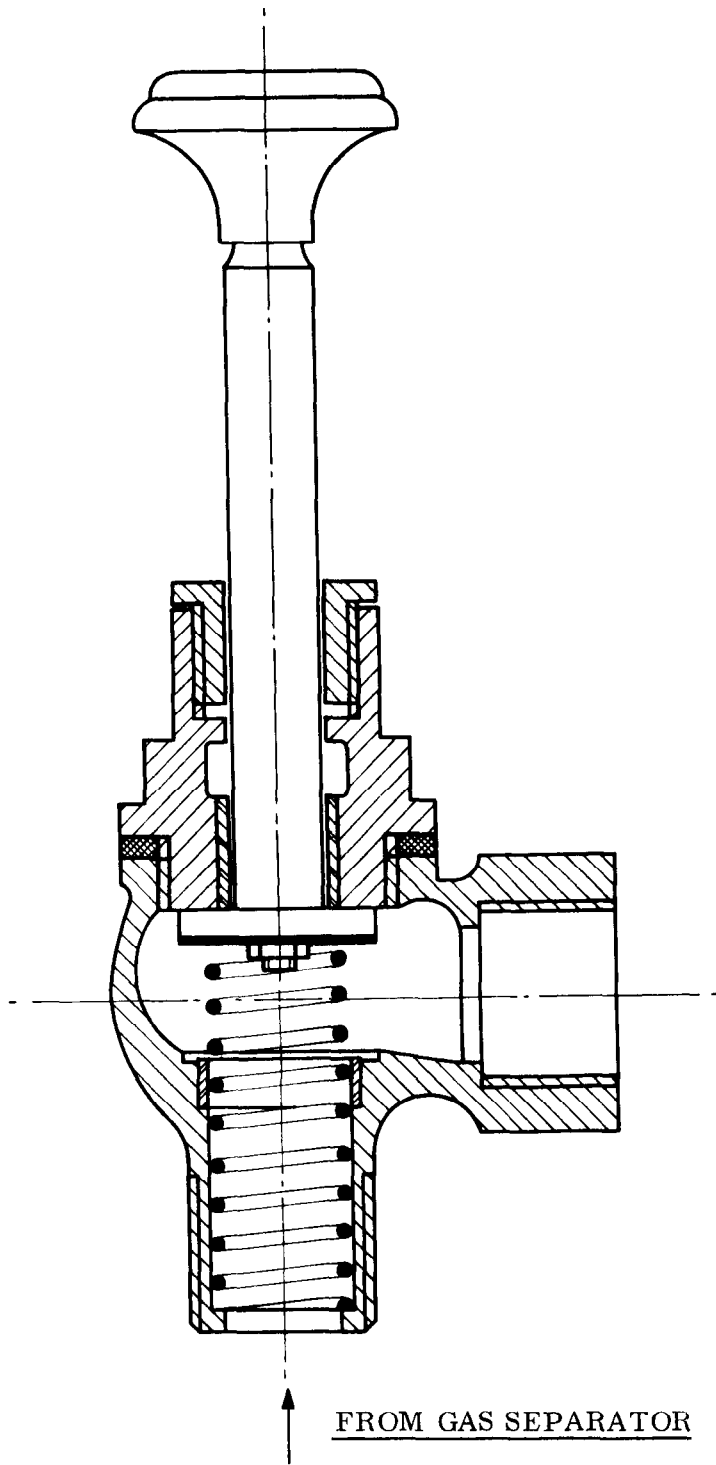
The nozzle may have a bent spout or a plastic guard, in which case the suffix S or G respectively is added to the name, or the nozzle may be without the dashpot, in which case the suffix D is deleted

from the name.

9. With an OPW  $1\frac{1}{4}$ -inch 1A automatic hose nozzle (see Figures 4 and 5).

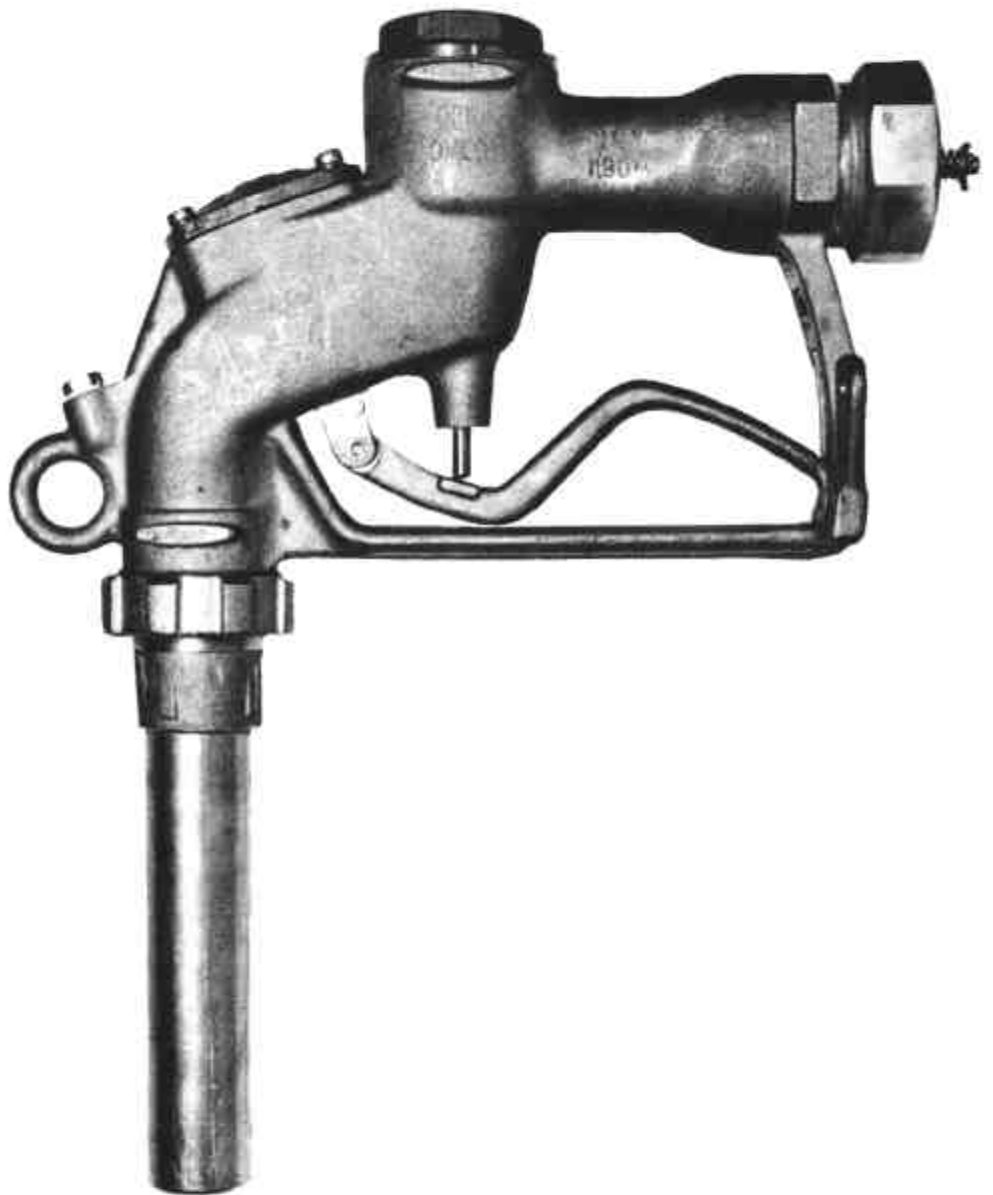
This nozzle operates in a similar manner to the OPW 1190 AD hose nozzle, except that no dashpot is fitted and there is no provision for a straight spout or plastic guard. The anti-drain valves are as described for the OPW 1190 AD nozzle.

FIGURE 5/6D/13 - 1



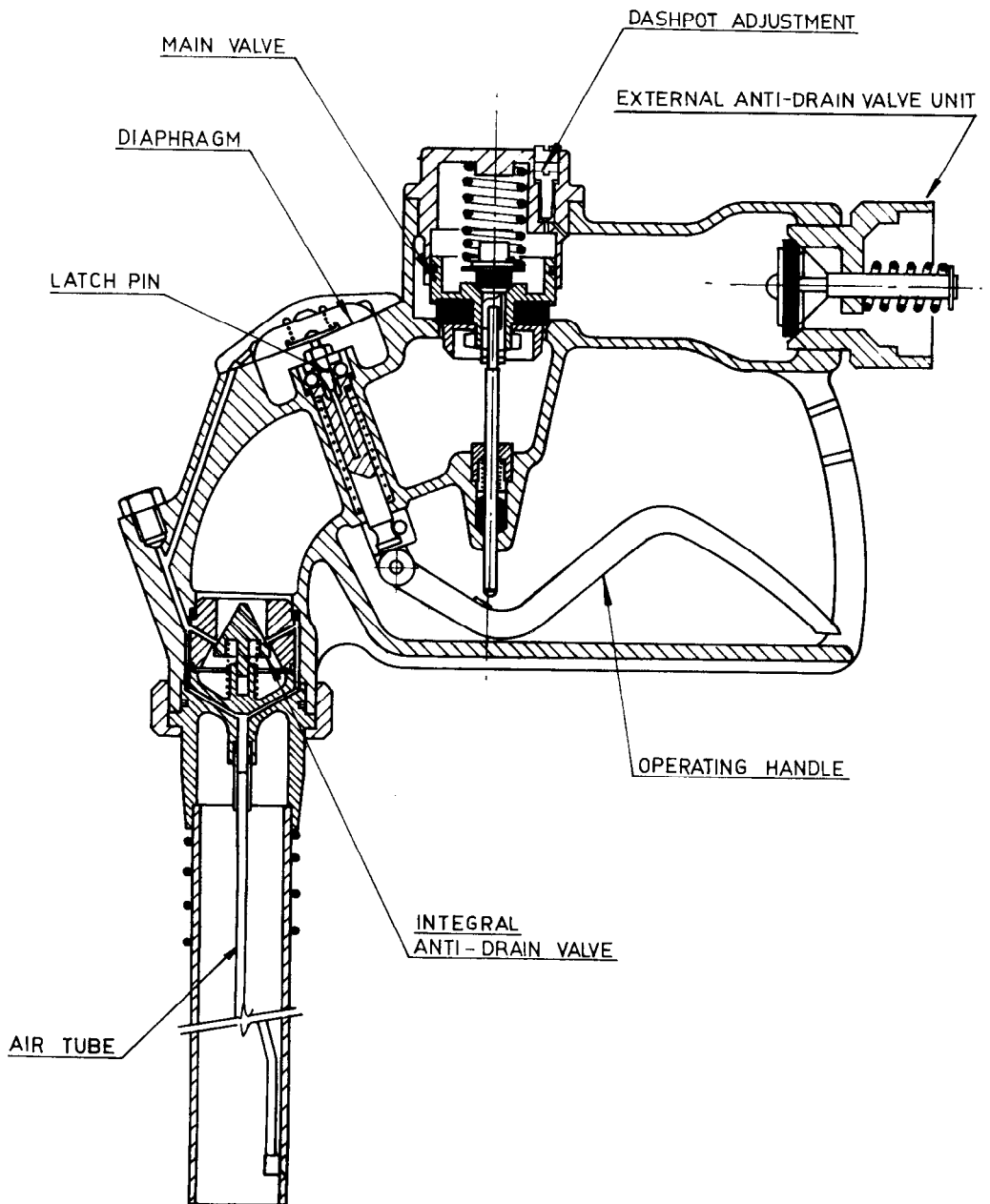
Valve in Vent Line from Gas Separator — Schematic Drawing  
4/8/71

FIGURE 5/6D/13 - 2



OPW 1190 AD Hose Nozzle with External Anti-drain Valve Unit  
31/5/72

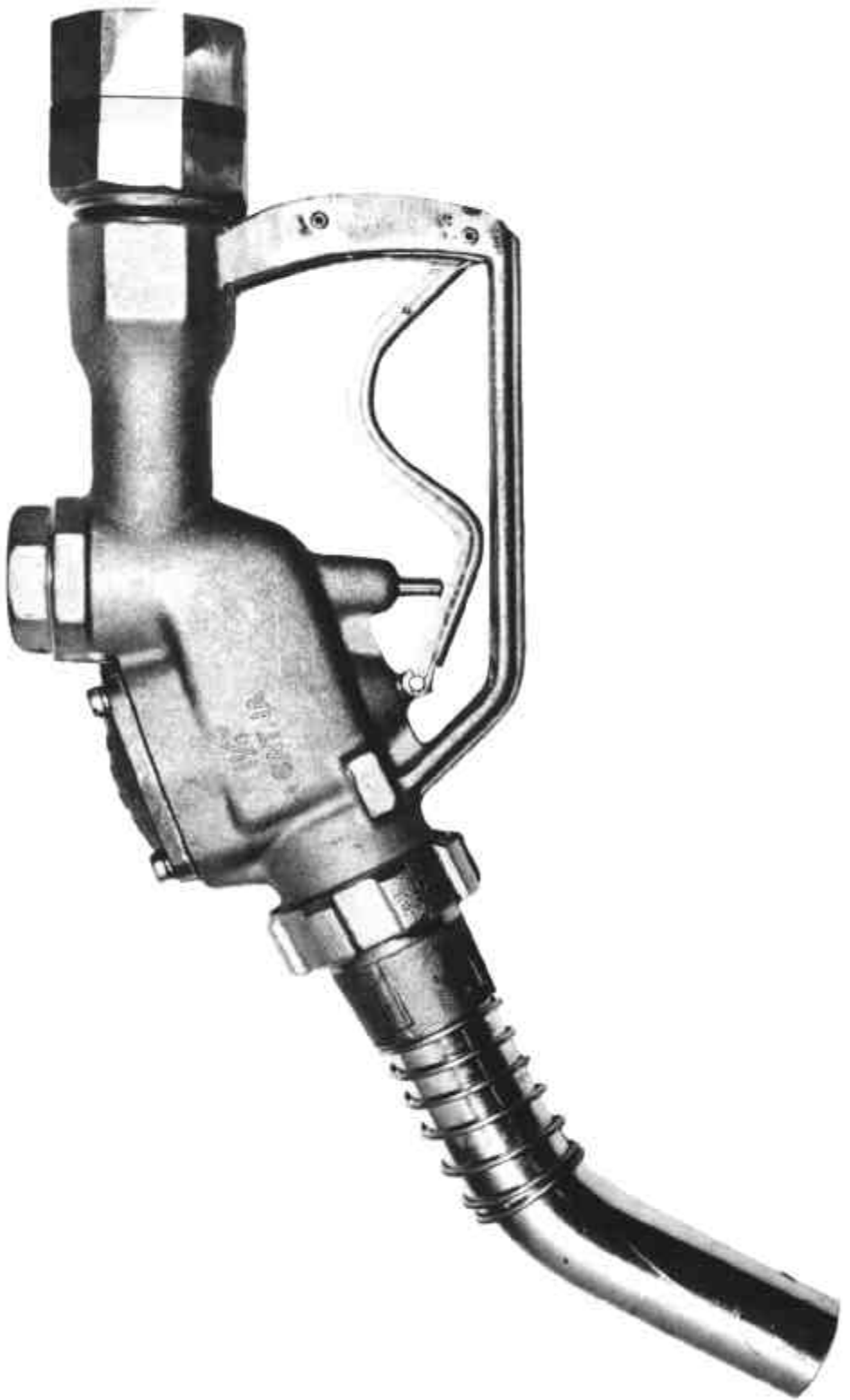
FIGURE 5/6D/13 - 3



OPW 1190 AD Hose Nozzle with External Anti-drain Valve Unit  
31/5/72

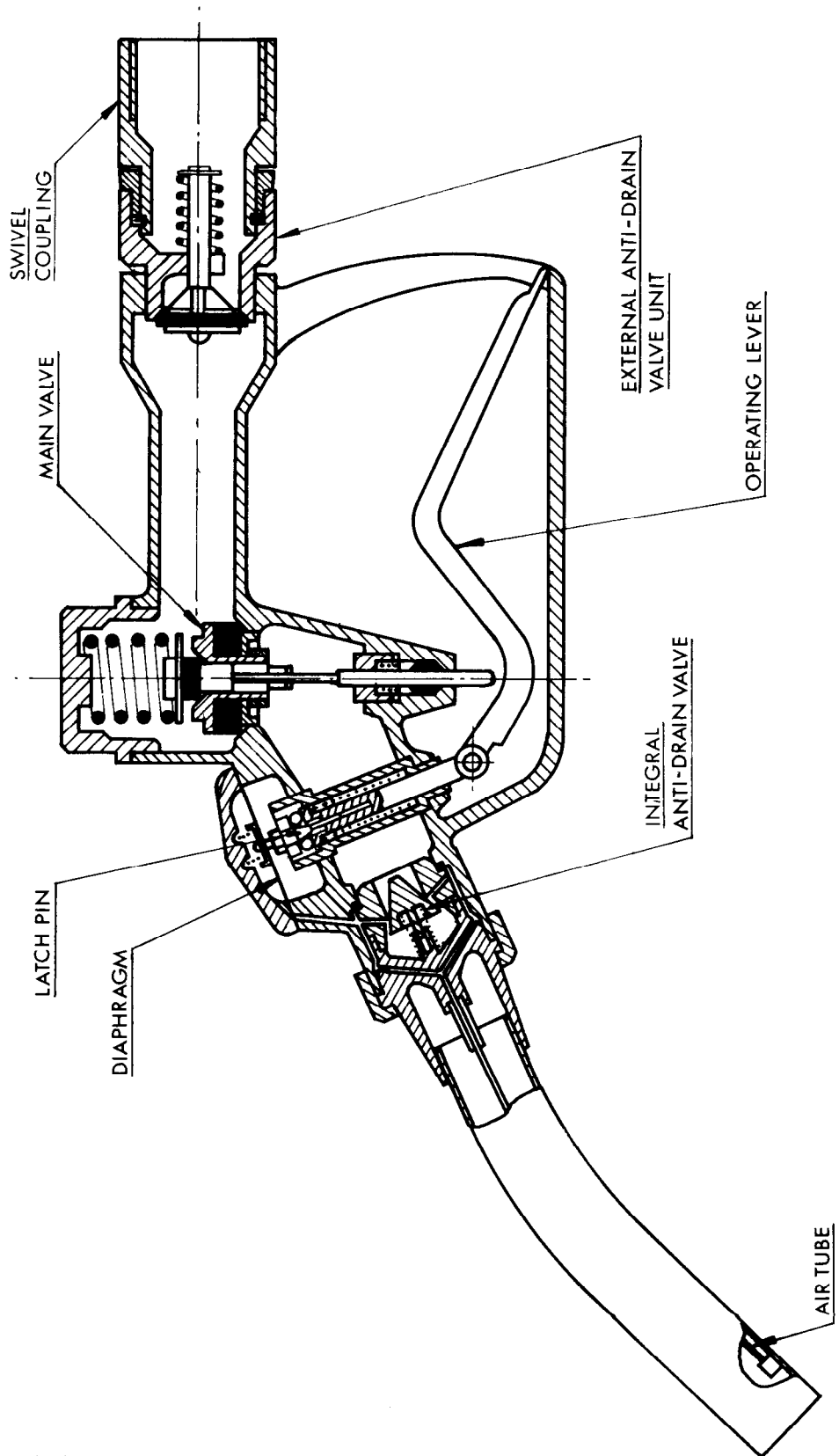


FIGURE 5/6D/13 - 4



OPW 1 1/4-inch 1A Hose Nozzle with External Anti-drain Valve Unit and Swivel Coupling

FIGURE 5/6D/13 - 5



OPW 1 1/4-inch 1A Hose Nozzle with External Anti-drain Valve Unit and Swivel Coupling