



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
General Supplementary Certificate of Approval
No S3/0A
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following change is made to the approval documentation for the
Nozzles for Use With Fuel Dispensers for Motor Vehicles.

General Supplementary Certificate of Approval No S3/0A and its Technical Schedule,
both dated 3 February 2005, are superseded by the Certificate and Technical Schedule
dated 1 March 2005 and attached herein.

(Note that the attached documentation corrects some minor typographical errors and
also replaces 'verified' with 'verified/certified' in two places.)

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. H. T.', is written over the signature line.

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12 Lyonpark Road, North Ryde NSW 2113

General Supplementary Certificate of Approval
No S3/0A

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Nozzles for Use With Fuel Dispensers for Motor Vehicles.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This Certificate is issued upon completion of a review of approval NSC S3/0.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 February 2010, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S3/0A' and only by persons authorised by the manufacturer.

It is the manufacturer's responsibility to ensure that all instruments marked with this approval number are constructed in accordance with the requirements of this Certificate of Approval and its Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Special Conditions of Approval:

This approval relates to nozzles for use on fuel dispensers for motor vehicles for the delivery of petroleum products excluding liquefied petroleum gases.

A nozzle complying with this approval may be used:

- (i) On new instruments; or
- (ii) As a direct replacement of the nozzle on a previously-verified/certified instrument, where it requires no modifications to the instrument or interlocks other than to the locating boot (hang-up).

DESCRIPTIVE ADVICE

Pattern: approved 25 January 2005

- Nozzles for use with fuel dispensers for motor vehicles for the delivery of petroleum products excluding liquefied petroleum gases.

Technical Schedule No S3/0A describes the pattern.

FILING ADVICE

General Supplementary Certificate of Approval No S3/0A, and its Technical Schedule, both dated 3 February 2005 are superseded by this Certificate and Technical Schedule, and may be destroyed. The documentation for this approval now comprises:

General Supplementary Certificate of Approval No S3/0A dated 1 March 2005
Technical Schedule No S3/0A dated 1 March 2005 (incl. Test Procedure)
Notification of Change No 1 dated 1 March 2005

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. G. T.', is located in the bottom right corner of the page.

TECHNICAL SCHEDULE No S3/0A

Pattern: Nozzles for Use With Fuel Dispensers for Motor Vehicles

1. Description of Pattern

Nozzles for use with fuel dispensers for motor vehicles for the delivery of petroleum products excluding liquefied petroleum gases.

As stated in the Special Conditions of Approval, a nozzle complying with this approval may be used:

- (i) On new instruments; or
- (ii) As a direct replacement of the nozzle on a previously-verified/certified instrument, where it requires no modifications to the instrument or interlocks other than to the locating boot (hang-up).

1.1 Design

(a) General

The general requirements/features for nozzles are specified in clauses 7.4 and 7.5 of AS 1940 – 2004, *The storage and handling of flammable and combustible liquids*.

(b) Metrological

In accordance with clause 2.14.2 of NMI R 117-1, *Measuring Systems for Liquids Other than Water (2004)*, the nozzle shall be so designed that it cannot retain a volume of liquid exceeding 0.4 times the minimum specified volume deviation which is the absolute value of the maximum permissible error for the minimum measured quantity of the measuring system to which the nozzle is fitted.

The nozzle shall include an anti-drain valve such that when the nozzle is connected to a hose, having minimum hose dilation characteristics, the hose is maintained full of liquid at all times and no creep in volume registration occurs before commencement of delivery.

1.2 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full
Pattern approval mark for the instrument	NMI S3/0A (#)

- (#) The pattern approval mark must not be marked on a removeable fitting, such as a pipework flange. It shall be permanently marked on either the main body of the nozzle or on a part which is obvious if removed and whose removal makes the nozzle incapable of normal operation (e.g. the manufacturer's trigger guard).

It is preferred, but not mandatory, that the pattern approval mark include 'NMI'.

TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instruments to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Uniform Test Procedures, as set out below:

1. Nozzle Cut-off

Testing shall be carried out in accordance with clause 4.4 of NMI V2-1, *Uniform test procedures for the verification, certification and in-service inspection of fuel dispensers. Part 1: Other than LPG dispensers* (July 2004).

2. Testing of Interlocks

When the nozzle is returned to its hang-up position, termination of delivery shall occur and the dispenser's pump motor shall stop. It should not be possible to hang-up a nozzle, or place it in what appears to be the hang-up position, without the pump motor stopping.

3. Testing The Anti-drain Valve

Testing shall be carried in accordance with clauses 4.11, 4.11.1 and 4.11.2 of NMI V2-1 (July 2004).