



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Supplementary Certificate of Approval**  
**No S511**

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 the

FitSafe Model FS-14ILA-20m-3M4BSPT In-line Filter for Fuel Dispensers for Motor Vehicles

submitted by           The Shell Co of Australia  
                                  8 Redfern Road  
                                  Hawthorn East   VIC   3123.

**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 approval has been granted with reference to document NMI R 117-1, Measuring Systems for Liquids Other than Water, dated July 2004.

**CONDITIONS OF APPROVAL**

This approval becomes subject to review on 1 June 2013, and then every 5 years thereafter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S511' in addition to the approval number of the instrument.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

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

**Special:**

This approval may be used to modify approved fuel dispensers even if the approval of the dispenser is not current, i.e. even if the approval has an expiry date which has been passed or if the approval has been cancelled in respect of new instruments.

DESCRIPTIVE ADVICE

**Pattern:** approved 14 May 2008

- A FitSafe model FS-14ILA-20m-3\4BSPT in-line ¾" cartridge filter for use with approved fuel dispensers for motor vehicles.

**Variant:** approved 14 May 2008

1. A Wix model FS-24003 in-line ¾" filter.

Technical Schedule No S511 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S511 dated 7 November 2008  
Technical Schedule No S511 dated 7 November 2008 (incl. Test  
Procedure)  
Figure 1 dated 7 November 2008

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



## TECHNICAL SCHEDULE No S511

**Pattern:** FitSafe Model FS-14ILA-20m-3\4BSPT In-line Filter for Fuel Dispensers for Motor Vehicles

**Submittor:** The Shell Co of Australia  
8 Redfern Road  
Hawthorn East VIC 3123

### 1. Description of Pattern

The pattern is a FitSafe model FS-14ILA-20m-3\4BSPT in-line  $\frac{3}{4}$ " cartridge filter which may be used in any approved fuel dispenser for motor vehicles. The filter is installed outside the fuel dispenser housing, and downstream of the meter (Figure 1). Refer to the Special Condition of Approval.

#### 1.1 Field of Operation

The filter may be used with any liquid hydrocarbon (except LPG) for which the dispenser is approved at flow rates up to the maximum specified in the approval documents for the fuel dispenser to which the filter is fitted. When the filter is changed the system is required to be primed with liquid up to the nozzle.

#### 1.2 Descriptive Markings

Fuel dispensers incorporating a component purporting to comply with this approval shall be marked with the pattern approval mark 'NMI S511' in addition to all other required markings as set out in the approval documentation for the dispenser.

#### 1.3 Sealing and Verification/Certification Provisions

The filter unit is sealed to prevent any drainage of the product between the inlet of the filter and the nozzle of the fuel dispenser.

When the filter is changed the system is required to be primed with liquid up to the nozzle, and then the filter is to be sealed.

A destructible adhesive label should be applied after verification/certification.

### 2. Description of Variant 1

A Wix model FS-24003 in-line  $\frac{3}{4}$ " filter.

## 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.

The maximum permissible errors applicable are those applicable to the fuel dispenser to which the instrument approved herein is fitted.

If a filter is installed after the fuel dispenser has been verified/certified, then the dispenser must be tested and certified again after the filter has been installed. Similarly if the filter is removed then the dispenser must again be tested and certified.

FIGURE S511 – 1



Typical FitSafe or Wix Filter Installation