National Standards Commission

Supplementary Certificate of Approval

No S288

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

Schlumberger/Neptune LPG Flowmeter With Liqua-Tech Model MCA125 Measuring Chamber

submitted by LPG Engineering Pty Ltd
13/257 Colchester Road
Kilsyth VIC 3137.

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.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/8/97.
This approval expires in respect of new instruments on 1/8/98.

Instruments purporting to comply with this approval shall be marked NSC No S288 and only by persons authorised by the submittor. Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S288 in addition to the approval number of the instrument.

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It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission 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 the Commission's Document 106.

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

Special:

Instruments modified by the fitting of the components approved herein shall be submitted for verification/certification before being used for trade.

DESCRIPTIVE ADVICE

Pattern: approved 28/7/92

. A Schlumberger/Neptune model 4D 32 mm LPG flowmeter with a Liqua-Tech model MCA125 measuring chamber assembly.

Variant: approved 28/7/92

1. Certain other models/sizes of meters/measuring chamber assemblies.

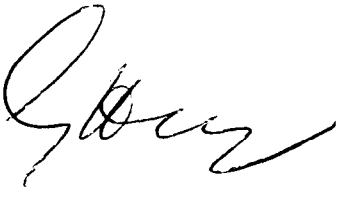
Technical Schedule No S288 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S288 dated 22/3/93
Technical Schedule No S288 dated 22/3/93 (incl. Test Procedure)
Figure 1 dated 22/3/93

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



National Standards Commission

TECHNICAL SCHEDULE No S288

Pattern: Schlumberger/Neptune LPG Flowmeter With Liqua-Tech Model MCA125 Measuring Chamber.

Submittor: LPG Engineering Pty Ltd
13/257 Colchester Road
Kilsyth VIC 3137.

1. Description of Pattern

The pattern is a Schlumberger/Neptune model 4D 32 mm LPG flowmeter with Liqua-Tech model MCA125 32 mm (1 1/4 inch) measuring chamber assembly replacing the equivalent Schlumberger/Neptune components.

1.1 Components

The measuring chamber assembly (Figure 1) comprises a measuring chamber, a piston rotor, a roller and a lid.

1.2 Markings

Instruments incorporating the components approved herein shall be marked with the following data, in addition to any markings specified in the approval documents for the instrument: (NOTE: These may be on a separate nameplate but shall be in a location adjacent to the other markings on the instrument.)

NSC approval number — NSC No S288
Date of modification
Model number

1.3 Verification/Certification

Instruments modified by the fitting of the components approved herein shall be submitted for verification/certification before being used for trade.

2. Description of Variant 1

Other sizes of Schlumberger/Neptune model 4D LPG flowmeters with the measuring chamber assemblies replaced by the equivalent Liqua-Tech components, viz. model MCA100 19 mm (3/4 inch), model MCA150 38 mm (1 1/2 inch), and model MCA200 50 mm (2 inch).

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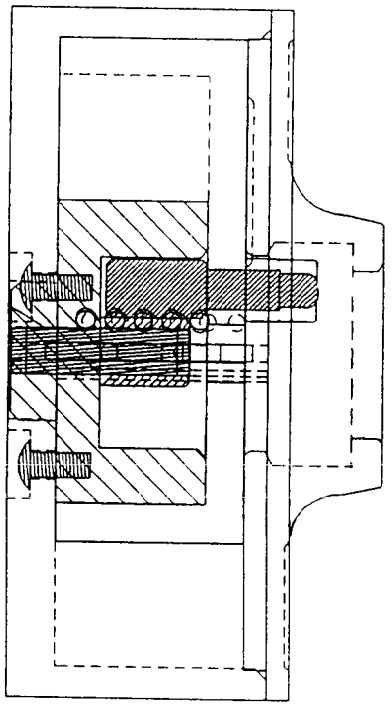
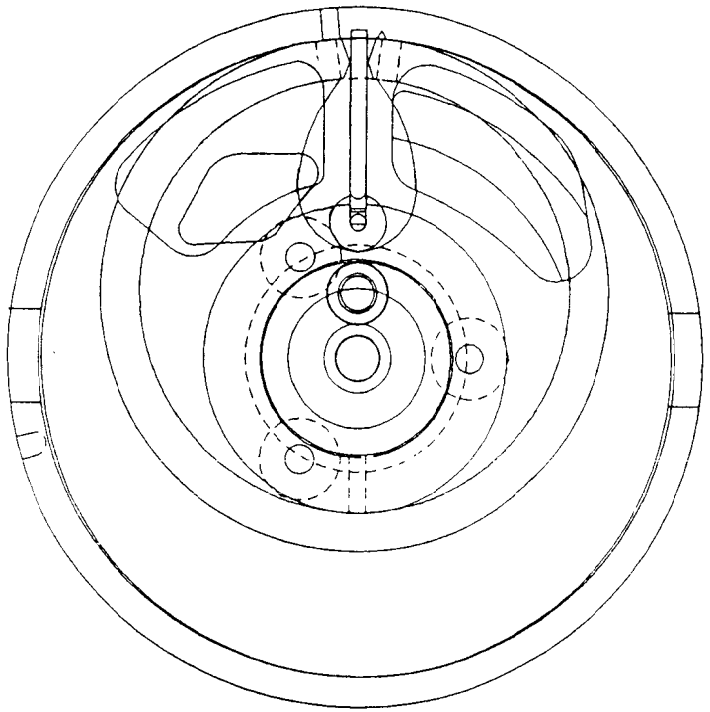
TEST PROCEDURE

Instruments incorporating the components approved herein shall be tested in conjunction with any tests specified in the approval documentation for the instrument, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the instrument to which the components approved herein are fitted, as stated in the approval documentation for the instrument.

FIGURE S288 - 1





Liqua-Tech Model MCA125 Measuring Chamber Assembly