



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Supplementary Certificate of Approval
No S383

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

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

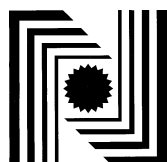
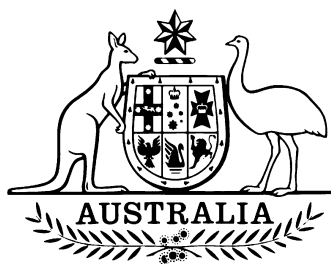
Blackmer Model GDP Monoblock Hydraulic System

submitted by Gilbarco Australia Limited
 20 Highgate Street
 Auburn NSW 2144

has been cancelled in respect of new instruments as from 1 December 2012.

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, consisting of stylized cursive letters, positioned to the right of the signature text.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Supplementary Certificate of Approval

No S383

Issued 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

Blackmer Model GDP Monoblock Hydraulic System

submitted by Gilbarco Australia Limited
(formerly Marconi Commerce Systems Australia Limited)
now of 20 Highgate Street
Auburn NSW 2144.

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 becomes subject to review on 1 January 2006, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S383 and only by persons authorised by the submitter.

Instruments purporting to comply with this approval shall be marked NSC No S383 in addition to the approval number of the instrument.

Instruments currently marked NSC PS383 and which purport to comply with this approval, may be re-marked NSC No S383.

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 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 NSC P106.

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

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

DESCRIPTIVE ADVICE

Pattern: provisionally approved 20 December 2000
approved 20 July 2001

- A Blackmer model GDP Monoblock hydraulic system designed to replace equivalent hydraulics in a Commission-approved Gilbarco (Marconi) fuel dispenser for motor vehicles.

Technical Schedule No S383 describes the pattern.

Variants: approved 26 June 2002

1. A Blackmer model GDP-90 Monoblock hydraulic system.

Technical Schedule No S383 Variation No 1 describes variant 1.

FILING ADVICE

Certificate of Approval No S383 dated 23 August 2001 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No S383 dated 29 July 2002
Technical Schedule No S383 dated 23 August 2001 (incl. Test Procedure)
Technical Schedule No S383 Variation No 1 dated 29 July 2002
Figures 1 and 2 dated 23 August 2001
Figures 3 and 4 dated 29 July 2002

TECHNICAL SCHEDULE No S383

Pattern: Blackmer Model GPD Monoblock Hydraulic System.

Submittor: Marconi Commerce Systems Australia Limited
12-38 Talavera Road
North Ryde NSW 2113.

1. Description of Pattern

A Blackmer model GDP Monoblock hydraulic system (Figures 1 and 2) designed to replace equivalent hydraulics in a Commission-approved Gilbarco (Marconi) fuel dispenser for motor vehicles.

1.1 Field of Operation

The hydraulic system is limited to the following characteristics:

Maximum flow rate, Q_{max}	85 L/min
Minimum flow rate, Q_{min}	5 L/min
Maximum pressure of the liquid, P_{max}	350 kPa
Minimum pressure of the liquid, P_{min}	100 kPa
Range of liquids	0.5 to 20 mPa.s (at 20°C)

1.2 Hydraulic System

The Blackmer model GPD Monoblock hydraulic system comprises the following components in a single enclosure:

- A check valve and a pressure relief valve fitted between the inlet to the Monoblock and the internal pump.
- The internal pump with an integral by-pass connected upstream of the gas elimination device and driven by an external motor.
- The gas elimination device designed to supply only liquid to the outlet of the Monoblock. Any vapour or gas separated by the Monoblock is exhausted to the vent outlet tube.
- A gas detection switch connected to the vent tube external to the Monoblock and the system designed to stop the flow when excessive amount of vapour or gas is detected in the liquid.

A gas/air test valve is provided for checking the operation of the gas elimination device.

1.3 Markings

Instruments are marked with the following data, together in one location on a data plate:

Manufacturer's identification mark or trade mark	Blackmer
Manufacturer's designation (model number)	GDP Monoblock
Serial number	...
Year of manufacture	...
Pattern approval sign	NSC No S383

1.4 Sealing and Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

The test valve for the gas elimination device has provision for sealing.

TEST PROCEDURE

Instruments should be tested in accordance with any tests included in the approval documentation for the system in which the pattern is fitted, and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors applicable for the gas elimination device are:

- ±0.5% for liquids with dynamic viscosity not exceeding 1 mPa.s, e.g. petrol.
- ±1.0% for liquids with dynamic viscosity exceeding 1 mPa.s, e.g. kerosene.

TECHNICAL SCHEDULE No S383
VARIATION No 1

Pattern: Blackmer Model GDP Monoblock Hydraulic System.

Submittor: Gilbarco Australia Limited
20 Highgate Street
Auburn NSW 2144

1. Description of Variant 1

A Blackmer model GDP-90 Monoblock hydraulic system which is similar to the pattern except that the fuel inlet is located at the rear of the monoblock (Figure 3) and an optional sump vent may be fitted with an external relief valve (Figure 4).



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Supplementary Certificate of Approval No S383
Change No 1

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

The following changes are made to the approval documentation for the
Blackmer Model GDP Monoblock Hydraulic System

submitted by Gilbarco Australia Limited
 20 Highgate Street
 Auburn NSW 2144.

In Supplementary Certificate of Approval No S383 dated 29 July 2002;

1. The Condition of Approval referring to the review of the approval should be amended to read:

 “This approval becomes subject to review on 1 January **2012**, and then every 5 years thereafter.”
2. The FILING ADVICE should be amended by adding the following:

 “Notification of Change No 1 dated 4 October 2007”

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

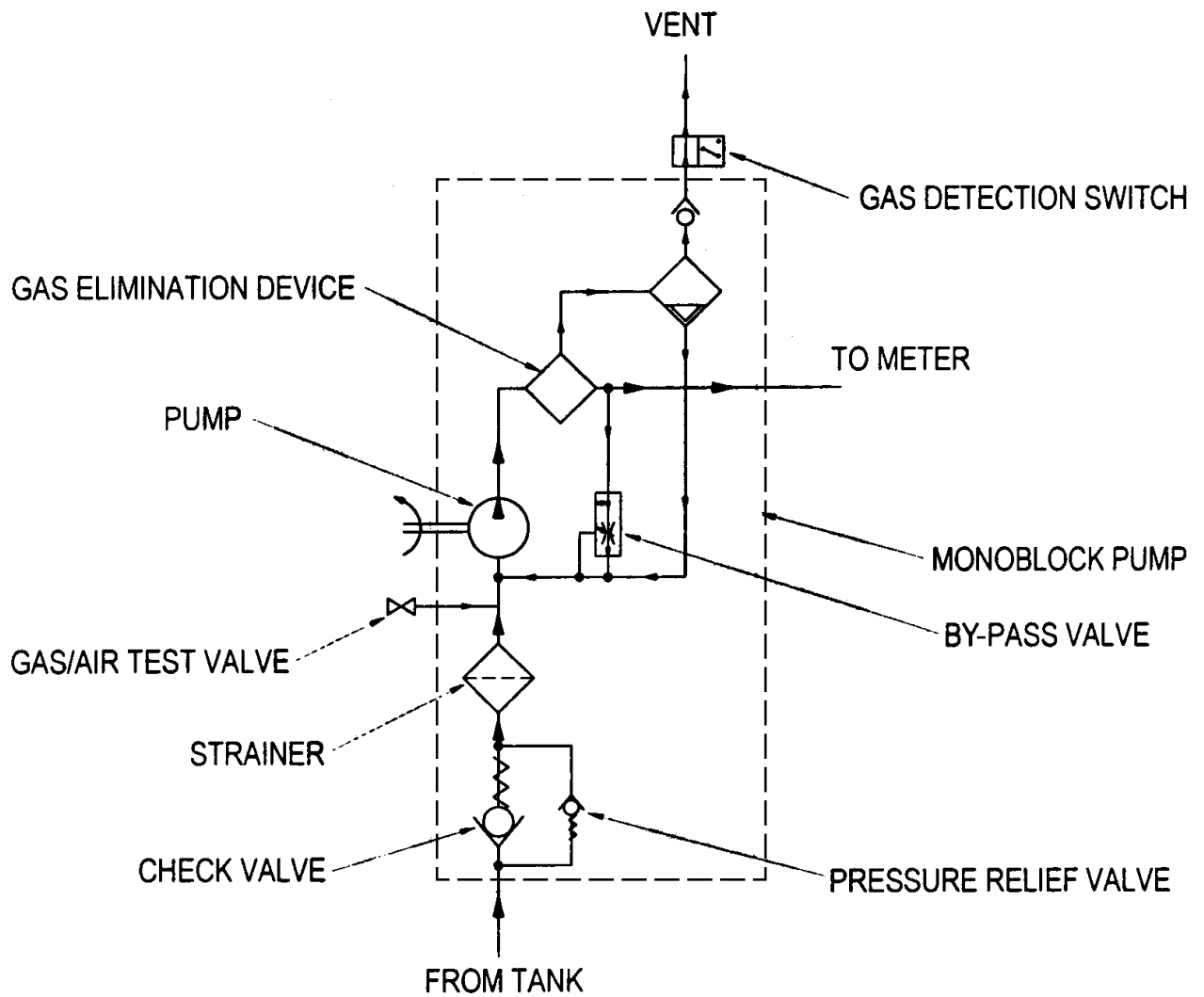
A handwritten signature in black ink, appearing to be 'J. H. T.', written in a cursive style.

FIGURE S383 - 1



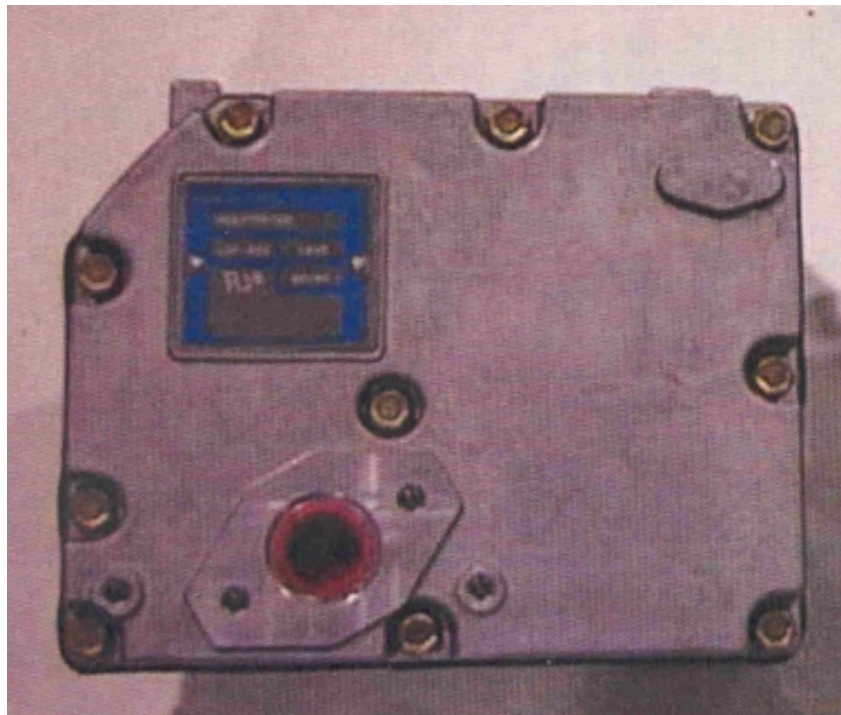
Blackmer Model GPD Monoblock Hydraulic System

FIGURE S383 - 2

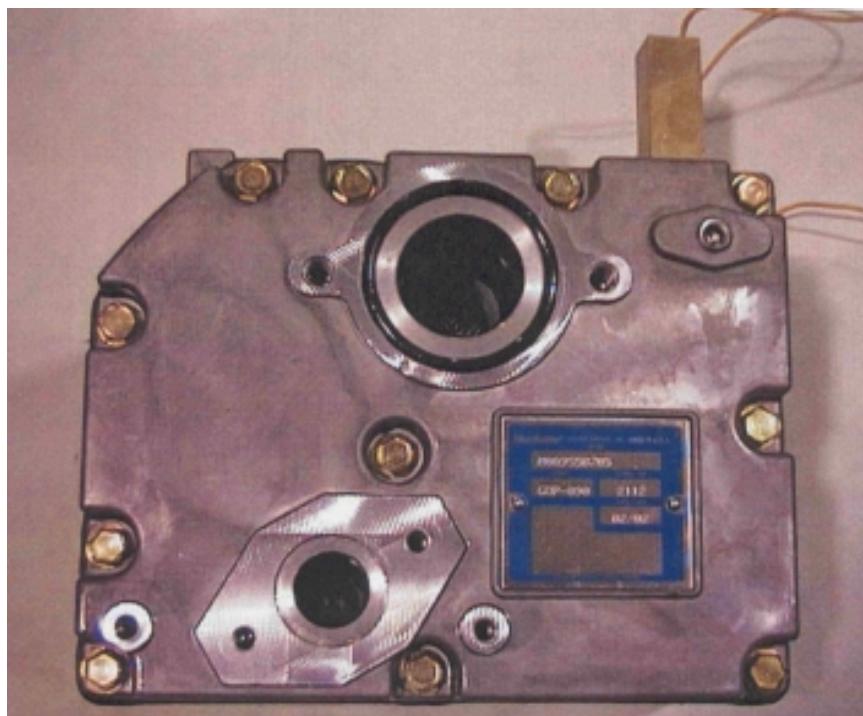


Blackmer Model GPD Monoblock Hydraulic System

FIGURE S383 - 3

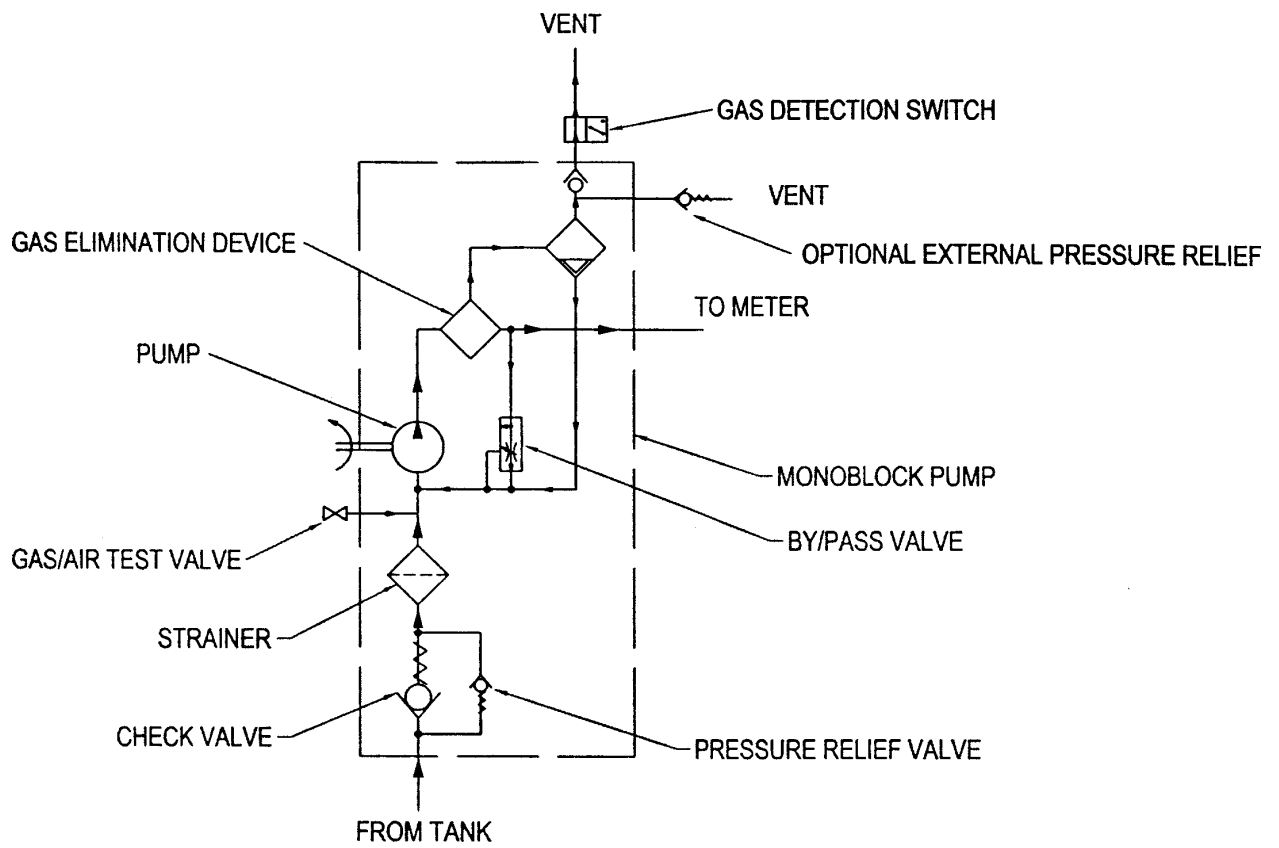


Rear View of Blackmer Model GDP Monoblock Hydraulic System (The Pattern)



Rear View of Blackmer Model GDP-90 Monoblock Hydraulic System (Variant 1)

FIGURE S383 - 4



Blackmer Model GDP-90 Monoblock Hydraulic System
Showing Alternate Vent Positions