CERTIFICATE OF CALIBRATION

Issued By: S.M.Gauge Company Ltd U31184 **Certificate Number:**

Date of Issue: 10 February 2025 S.M. Number: 33834



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Approved Signatory

Kelvin Smith

S.M. GAUGE

S.M.Gauge Company Ltd

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Bristol, BS37 5AA. Tel: 0117 965 4615

Customer /Owner **Cherwell Water Utilities Backflow Limited**

286 Broughton Road

Tel: Banbury Fax: Oxon Fmail: **OX16 9QW**

Instrument **MAKO Backflow Test Kit** Description: Manufacturer: Arbiter

> Range: Mk5 (±1 kPa Accuracy) Temperature: 17°C to 23°C

Resolution: 0.1 kPa Date Received: 06 February 2025

Serial Number: 02AC24060032 Last Cert:

Comments

The above instrument was placed into the laboratory and allowed to stabilise for at least 2 hours. The instrument was calibrated against high accuracy indicators. The pressurising medium was air. Pressure measurements are referenced to the sealing face. The results relate only to the item calibrated. Calibration procedure reference SMG6.

The SI unit of pressure is the Pascal(Pa): 1 kPa = 1000 Pa. The measurement uncertainty is 0.10% F.S. +1 digit

> The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. Two term uncertainty budgets need to be added in quadrature.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Acceditation Service. It provides traceability of measurement to the SI system of units and/or to the units of measurement realised at the National Physical Laboratory or other recognised national measurement institutes. This certificate may not be reproduced other than in full, except with prior written approval of the issuing laboratory.

Traceability Information

Instrument Description: Serial No: Cert No: Cal Date: Cal Due: 323754 1025714 Pressure Transmitter & 24/Apr/2024 23/Apr/2025 Readout - 1bar

Calibrated by: Kelvin Smith Date of Calibration: 10-February-2025

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Reading of UUT	Rqd Pressure	Actual Pressure	Allowed Error	% of Spec
Rising Pressure (kPa)				
0.0 kPa	0.00kPa	0.00kPa	+/- 1kPa	0%
0.5 kPa	0.50kPa	0.53kPa	+/- 1kPa	3%
7.0 kPa	7.00kPa	7.03kPa	+/- 1kPa	3%
14.0 kPa	14.00kPa	14.11kPa	+/- 1kPa	11%
34.0 kPa	34.00kPa	34.18kPa	+/- 1kPa	18%
100.0 kPa	100.00kPa	100.12kPa	+/- 1kPa	12%
Falling Pressure (kPa)				
34.0 kPa	34.00kPa	34.16kPa	+/- 1kPa	16%
14.0 kPa	14.00kPa	14.11kPa	+/- 1kPa	11%
7.0 kPa	7.00kPa	7.14kPa	+/- 1kPa	14%
0.5 kPa	0.50kPa	0.55kPa	+/- 1kPa	5%
0.0 kPa	0.00kPa	0.00kPa	+/- 1kPa	0%