

CERTIFICATE OF CALIBRATION

Issued By : S.M.Gauge Company Ltd

Certificate Number : U36409

Date of Issue : 23 February 2026

S.M. Number : 49571



Page 1 of 2

S.M. GAUGE

C O M P A N Y

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Tel: 0117 965 4615

Approved Signatory


Kelvin Smith

Customer /Owner Cherwell Water Utilities Backflow Limited



Tel:
Fax:
Email:

Instrument	Description : MAKO Backflow Test Kit	Manufacturer : Arbiter
	Range : Mk5 (± 1 kPa Accuracy)	Temperature : 17°C to 23°C
	Resolution : 0.1 kPa	Date Received : 19 February 2026
	Serial Number : 02AC23090062	Last Cert :

Comments

The above instrument was placed into the laboratory and allowed to stabilise for at least 2 hours. The instrument was calibrated in a vertical position, against high accuracy indicators. The low-pressure port was open to atmosphere and the pressure applied to the high-pressure port. 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 0.146% F.S.

Customer requested cal due date: 23 Feb 2027.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation 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:
Pressure Transmitter & Readout - 1bar	323754	1130070	28/Apr/2025	27/Apr/2026

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Page 2 of 2

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	0.57kPa	+/- 1kPa	7%
7.0 kPa	7.00kPa	7.06kPa	+/- 1kPa	6%
14.0 kPa	14.00kPa	14.06kPa	+/- 1kPa	6%
34.0 kPa	34.00kPa	33.96kPa	+/- 1kPa	-4%
100.0 kPa	100.00kPa	100.05kPa	+/- 1kPa	5%
Falling Pressure (kPa)				
34.0 kPa	34.00kPa	33.90kPa	+/- 1kPa	-10%
14.0 kPa	14.00kPa	13.96kPa	+/- 1kPa	-4%
7.0 kPa	7.00kPa	7.01kPa	+/- 1kPa	1%
0.5 kPa	0.50kPa	0.53kPa	+/- 1kPa	3%
0.0 kPa	0.00kPa	0.00kPa	+/- 1kPa	0%