

Certificate of Testing

N°: TRA017055CC01A

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Xylem Flow Control
Patrick Gregory Road
Wednesfield
Wolverhampton
WV11 3DZ

Issue Date: 22nd January 2014
Our Ref: TRA-017055-00
Client's Order Number: A 24511
Date of Test: 14th and 15th January 2014

Attn.: Mr James Kingham (Hons) CEng MIMechE

Specimen:

1 Off	Solenoid Housing
Part Number:	A130618/130524
TRaC Stores Number:	TRA-017055-S1
Receipt Date:	6 th January 2014

Specification: IP6X - Dust Tight

Test in accordance with BS EN 60529:1992, Category 1.

Duration	8 Hours
Vacuum:	≤ -20mbar

IPX7 - Protected Against Temporary Immersion in Water

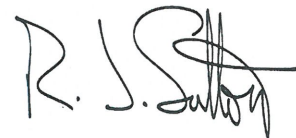
Test in accordance with BS EN 60529:1992

Depth:	1000mm from lowest point of enclosure to water surface
Duration:	30 minutes
Temperature Differential:	≤ 5°C



Test Engineer

G. Ball Test Engineer



Approval

R. J. Sutton Verification Controller

Certified that the specimens detailed hereon have been subjected to the tests as required by the order unless otherwise stated above. Our technical competence and quality control arrangements are in accordance with the conditions of our UKAS accreditation. No representation or warranty is given that the Tests performed under the terms of Contract constitute, in themselves, a sufficient programme for the Customer's purpose, nor that the Customer's Equipment is suitable for any particular purpose. The contents of this Certificate shall not be reproduced, except in full, without the written approval of TRaC Global Limited.

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Procedure: IP6X - Dust Tight

The specimen was found to have no openings that could be penetrated by the access probe of 1 mm Ø at a force of 1N.

The specimen was connected to a vacuum pump, pressure indicator and flow meter to calculate the test duration. The specimen was placed in the dust chamber in a possible working orientation and re-connected to the vacuum pump to provide a vacuum no greater than 20 mbar below laboratory ambient pressure during the test, as shown in Figure 1. The test was carried out in accordance with the specification for a period of 8 hours.

IPX7 - Protected Against Temporary Immersion in Water

The specimen was mounted on a platform in a possible working orientation and immersed in water such that its lowest surface was at a depth of 1 meter for a period of 30 minutes, as shown in Figure 2.

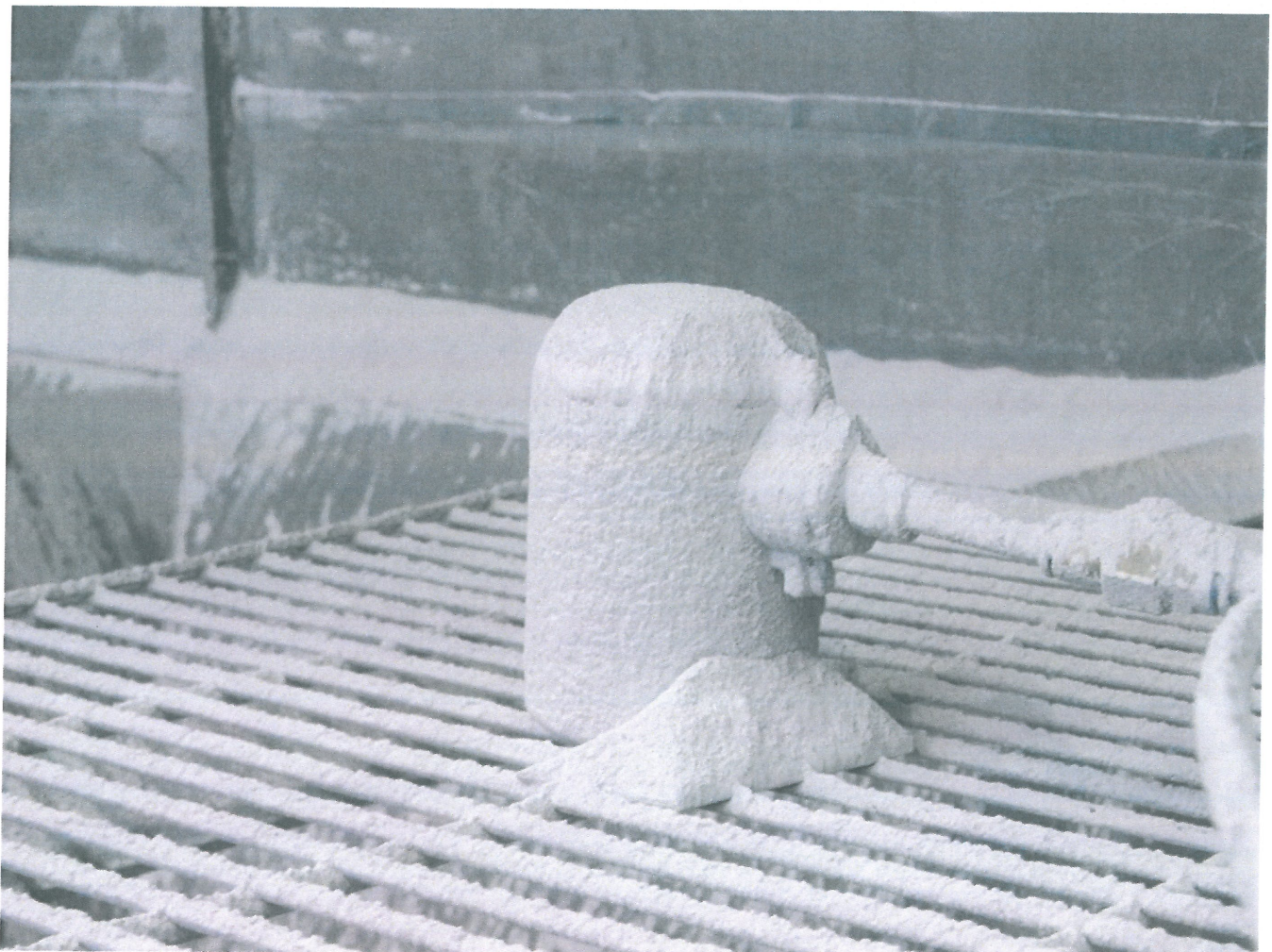
Results: IP6X - Dust Tight

After testing the specimen was removed from the dust chamber for an internal inspection. No dust was found.

IPX7 - Protected Against Temporary Immersion in Water

After testing the specimen was dried externally before being opened for an internal inspection. No water was found.

The specimen therefore satisfies the requirements of BS EN 60529: 1992 IP67.



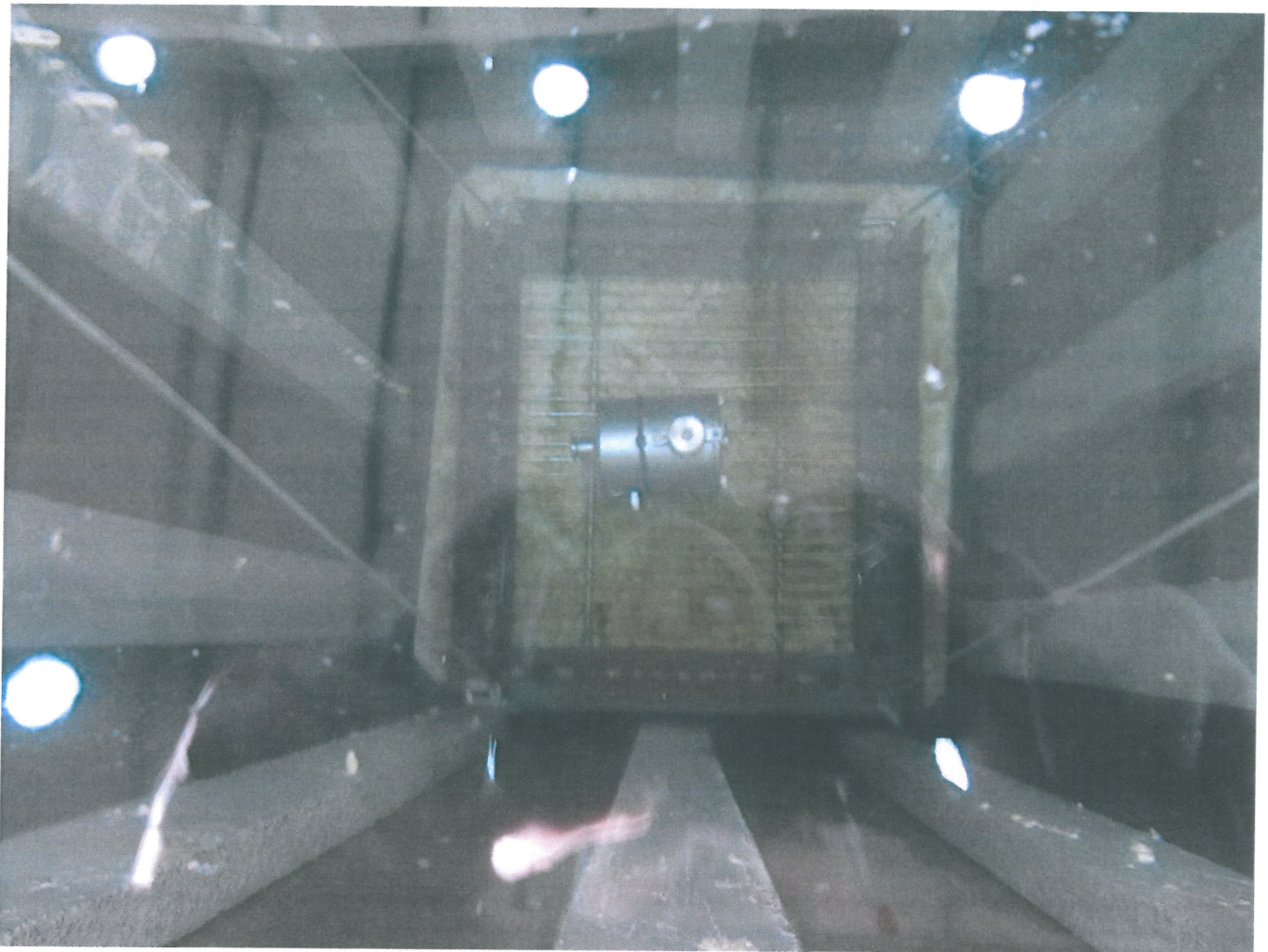
SPECIMEN MOUNTED IN DUST CHAMBER AFTER DUST TESTING

FIGURE 1

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SPECIMEN UNDERGOING IPX7 TEMPORARY IMMERSION TEST

FIGURE 2