

Certificate of Testing

Paladon Systems Limited
Ferro Fields
Brixworth
Northampton
Northamptonshire
NN6 9UA

Serial Number: 16166

Page 1 of 6 pages

Client's Order Numbers: POR34661

Works Order Number: 10917-00

Date of Tests: 9th and 12th January 2009

Attn.: Mr. Brian Ennever.

<u>Specimen:</u>	1 off	Pneumatic Actuator
	Model No.:	PNS-6-201-SRC2
	Serial No.:	RFPL 02-04-19/23
	Cape Stores No.:	23062
	Receipt Date:	7 th January 2009

Specification: Ingress Protection Testing

Tested in accordance with BS EN 60529:1992.

IP6X - Dust tight

Duration: 8 hours

IPX6 - Protected against powerful water jets

Nozzle: 12.5mm diameter

Flow Rate: 100 litres per minute

Duration: 3 minutes

Distance: 2.5 to 3 metres



0026

TEST ENGINEER

G. Ball

Q.A. APPROVAL

C. P. Stone Test Manager

Certified that the specimens detailed hereon have been subjected to the tests as required by the order unless otherwise stated above. The 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 the 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 Cape Engineering UK Limited.

● Cape Engineering UK Limited, Rothwell Road, Warwick, CV34 5JX, UK.

● T +44 (0)1926 478478

F +44 (0)1926 478479

E sales@cape-eng.co.uk

Issue Date: 14th January 2009



Certificate of Testing

Serial Number: 16166

Page 2 of 6 pages

Procedure: IP6X - Dust tight

The specimen, was measured to evaluate its volume, and then connected to a vacuum pump, pressure indicator and flow meter to calculate the test duration. The specimen was placed in the dust chamber, 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 specimen was subjected to the 8 hour test in accordance with the test specification

IPX6 - Protected against powerful water jets

The specimen was mounted in a normal operating orientation; it was then jetted from all possible directions, as shown in Figures 2 and 3

Results: IP6X - Dust tight

The enclosure was removed from the dust chamber for water testing.

IPX6 - Protected against powerful water jets

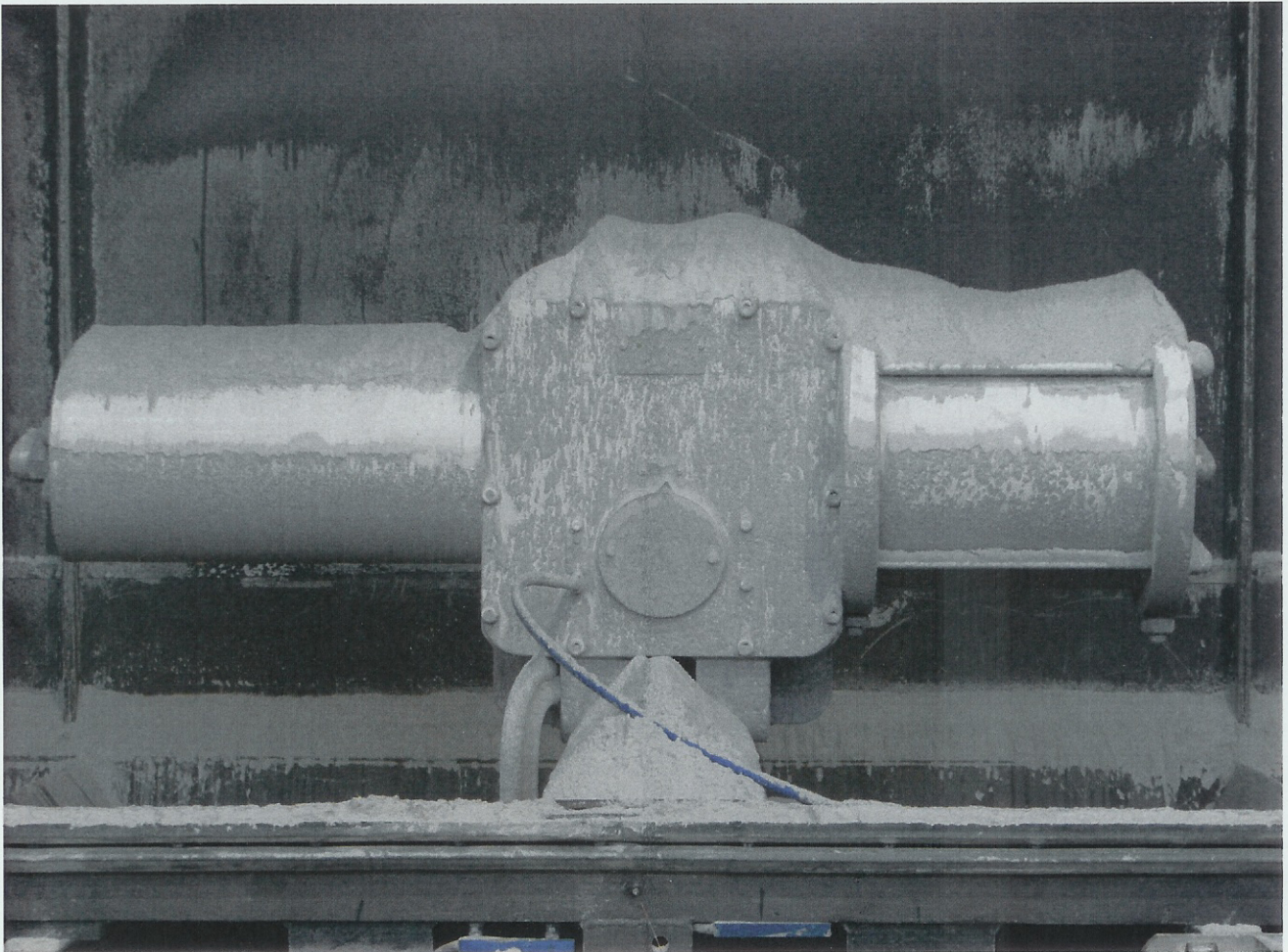
After testing the specimen was dried externally before being inspected internally for dust and water ingress. None was found, as shown in Figure 4.

The specimen therefore satisfies the requirements of BS EN 60529: 1992 IP66.

Certificate of Testing

Serial Number: 16166

Page 3 of 6 pages



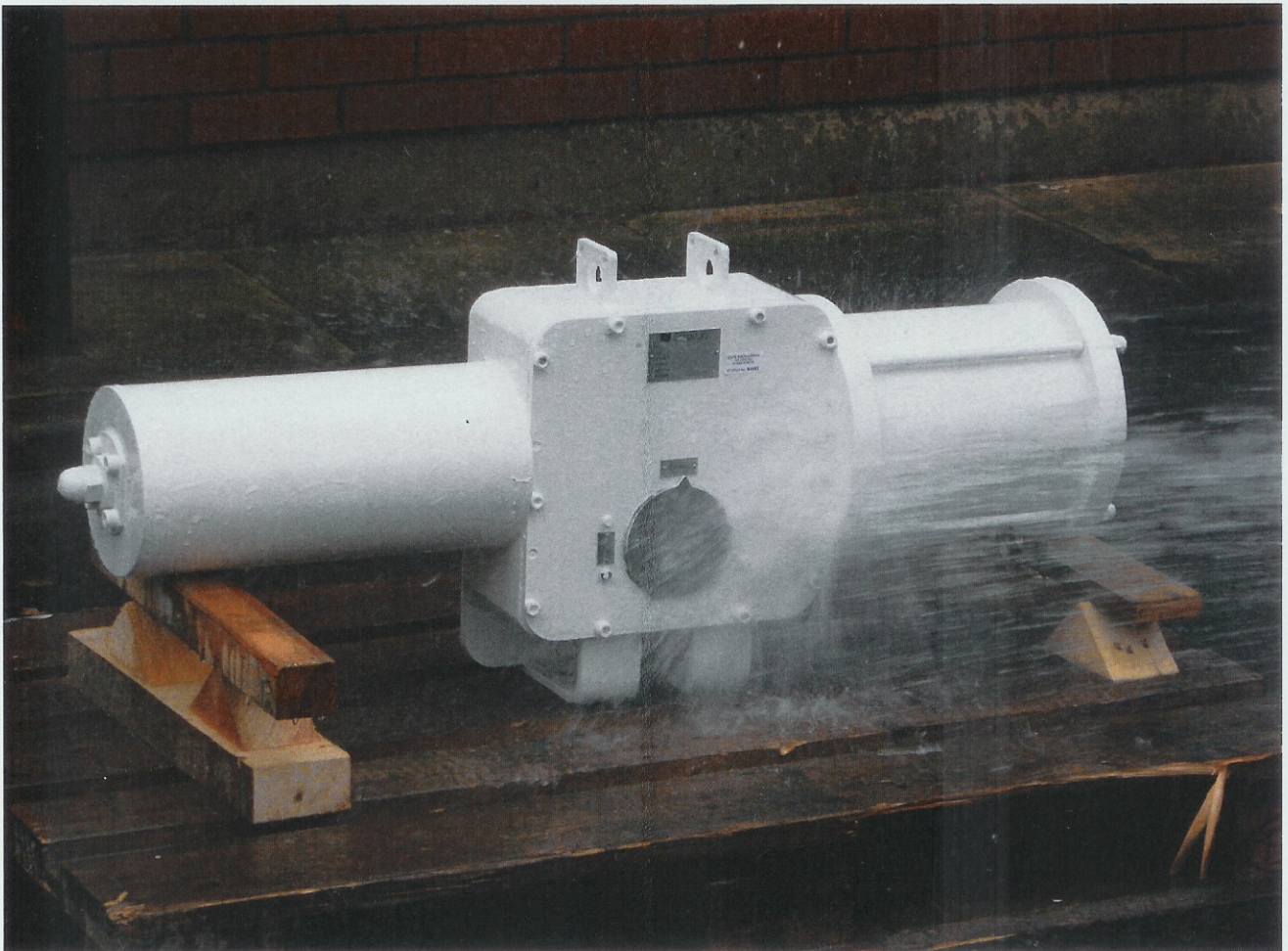
Specimen after undergoing the dust test

Figure 1

Certificate of Testing

Serial Number: 16166

Page 4 of 6 pages



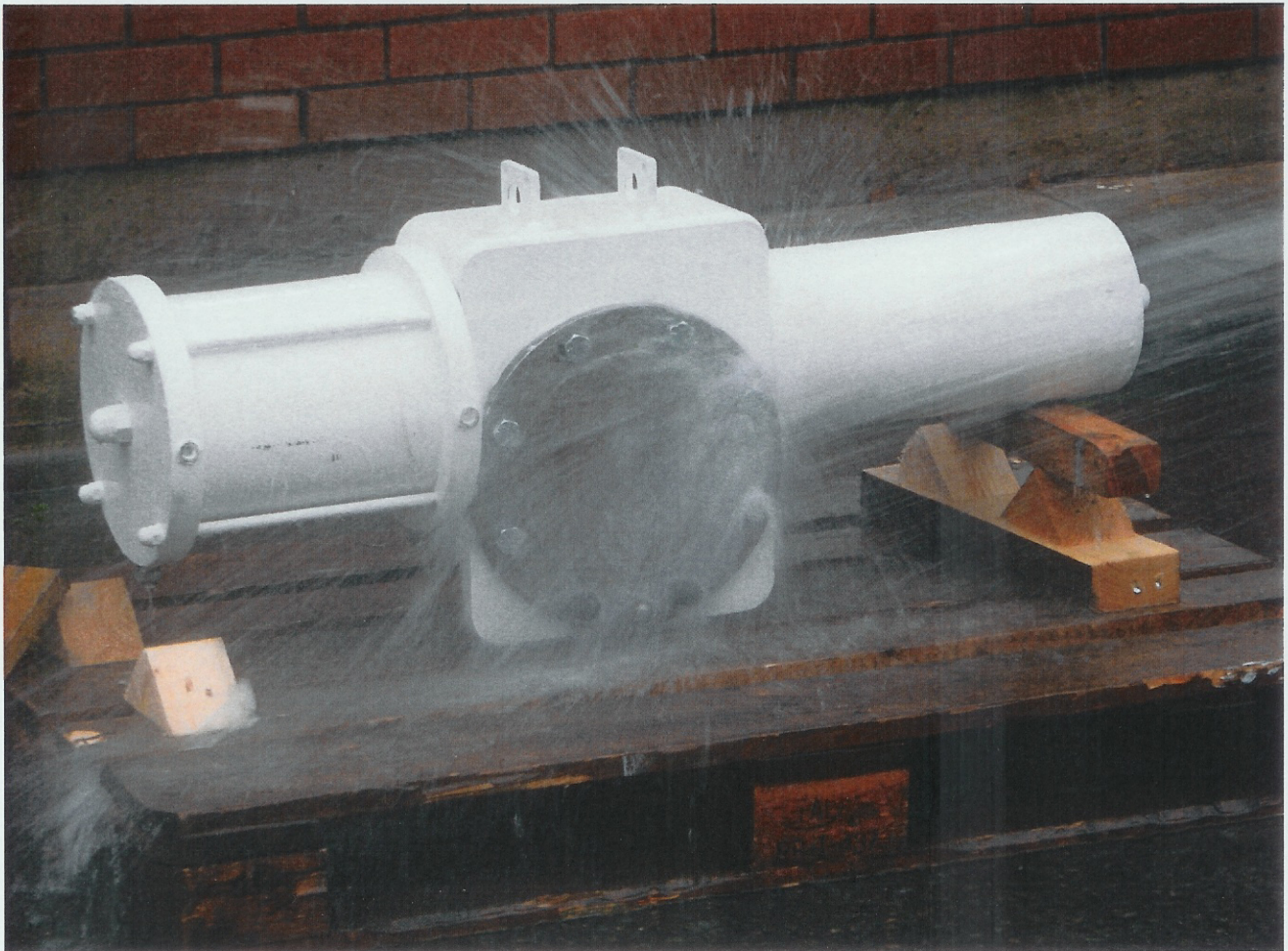
Specimen undergoing water test

Figure 2

Certificate of Testing

Serial Number: 16166

Page 5 of 6 pages



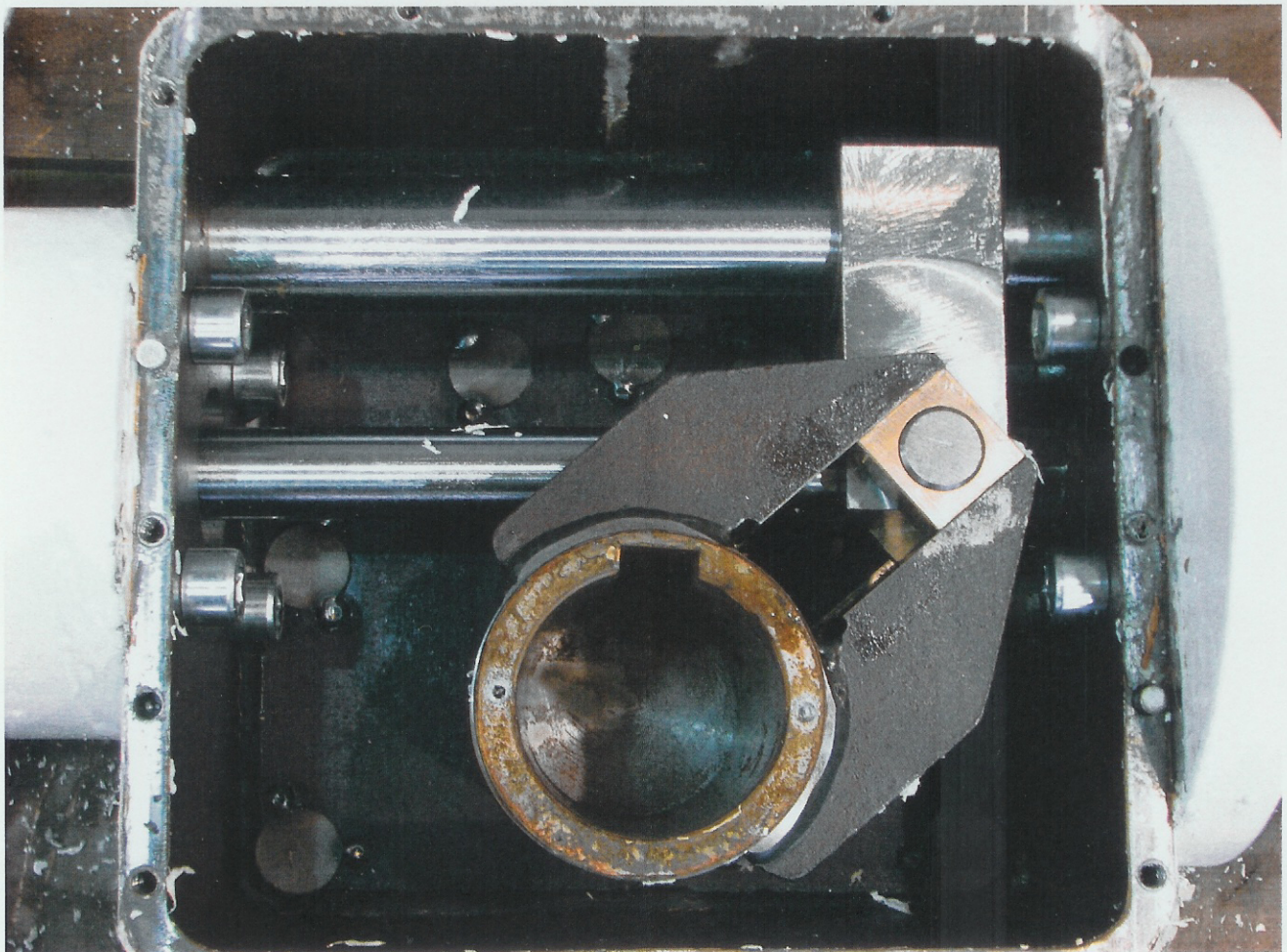
Specimen undergoing water test

Figure 3

Certificate of Testing

Serial Number: 16166

Page 6 of 6 pages



Inside enclosure after testing

Figure 4