


Test Report



Report No	289/7574032 issue 2	This Report consists of 7 pages
Client	Cameron Design The Studio 1 Prescott Close Northampton NN3 5HZ United Kingdom	
Authority & date	BSI Quotation BSI 0000277279 dated 23 August 2010	
Items tested	Overspeed Governor model: VG Digital Bi-Directional Governor Issue 2 of this report supersedes all previous issues. The amendments on page 1 causing this raise of issue can be ascertained by application to the authorising signatory	
Specification	BS EN81-1 & 2:1998+A3:2009 Safety rules for the construction and installation of lifts Part 1: Electric lifts. Part 2: Hydraulic lifts Annex F.4 Overspeed Governors	
Results	See text.	
Prepared by		Certification Technical Mgr
Authorized by		Certification Technical Mgr
Issue Date	6 April 2011	
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of PS082 'General conditions relating to acceptance of testing'. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Director, BSI Healthcare & Testing Services, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.	

**BRITISH STANDARDS INSTITUTION
HEALTHCARE AND TESTING SERVICES**

**TESTING IN ACCORDANCE WITH BS EN 81-1 AND 2:1998+A3:2009
CLAUSE 9.9 AND ANNEX F.4 OVERSPEED GOVERNORS**

Client's Name: Cameron Design
The Studio
1 Prescott Close
Northampton
NN3 5HZ
United Kingdom

Manufacturer's Name: Atwell International Limited
Ball Mill Top Business Park
Hallow
Worcester
WR2 6PD
United Kingdom

Designation of type: VG Digital Bi-Directional Governor

Rated Speed(s) Max. 7.08m/s (424.8m/min) Min. 0.0833m/s (4.998m/min)

Designated minimum pull through force: 500 Newtons

Minimum tensioning force: Not applicable

Specified diameter and construction of rope: 8mm or 10mmdiameter.

Designated limitations of use: Progressive Safety Gears to be used for Car and Counterweight where the rated speeds exceed 1.0m/s.

Item(s) for test: 1 off Overspeed Governor Model VG Digital Bi-Directional Governor with rated speeds of 0.83m/s to 7.08m/s.

Date and venue of test: Testing commenced on 18 January 2011 and 4 April 2011 at Coomber Electronic Equipment Ltd, Brindley Road, Warndon, Worcester, WR4 9FB United Kingdom

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TEST RESULTS

Rated Speed (V) 3.350m/s (Set for Counterweight)

Overspeed Limits (Clause 9.9.11.1)

Min - Not specified

Max - Actual tripping speed

Tripping Speed Limits (Clause 9.9.1)

Min – 3.853 m/s

Max - 4.688 m/s

RESULTS - OPERATION

Test No	Overspeed Operation m/s	Tripping Speed m/s	Pass/Fail
1	4.020	4.188	Pass
2	3.990	4.188	Pass
3	4.000	4.188	Pass
4	4.040	4.188	Pass
5	4.020	4.188	Pass
6	4.010	4.188	Pass
7	4.020	4.188	Pass
8	3.990	4.188	Pass
9	4.020	4.188	Pass
10	4.020	4.188	Pass
11	4.020	4.188	Pass
12	4.000	4.188	Pass
13	4.030	4.188	Pass
14	4.010	4.188	Pass
15	4.020	4.188	Pass
16	3.990	4.188	Pass
17	3.980	4.188	Pass
18	3.990	4.188	Pass
19	4.010	4.188	Pass
20	3.980	4.188	Pass

PULL THROUGH FORCE TEST

Minimum pull through force- see page 7

Tests 1 to 15 were conducted in the forward direction of rotation, 16 to 20 were conducted in the reverse direction of rotation.

