

**Australian/New Zealand
Certification Scheme for
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT**

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZEx 10.3009X

Issue No.: 0

Date of Issue: 14/12/2010

Applicant: DJ BATCHEN PTY LTD
2 – 6 Raglan Street
Auburn NSW 2144
Australia

Electrical Apparatus: A range of flameproof terminal boxes including heating element tubes for LPG Vaporiser applications

Type of Protection: Ex d

Marking Code: DJ Batchen Pty Ltd
Model No.:
Ex d IIA T6
ANZEx 10.3009X
S/N:

Manufacturer: DJ BATCHEN PTY LTD
2 – 6 Raglan Street, Auburn NSW 2144
Australia

Manufacturing Location(s): “as above”

The EPEE certification database located at <http://www.anzex.com.au> shows the validity of this Certificate.

This certificate and schedule shall not be reproduced except in full

 <p>Test Safe AUSTRALIA</p>	<p>Certificate issued by:</p> <p style="text-align: center;">TestSafe Australia 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 http://www.testsafe.com.au</p>	 <p>JAS-ANZ www.jas-anz.com.au/register</p>
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This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication MP87.1:2008.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 60079.0:2005 Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
AS/NZS 60079.1:2007 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures ‘d’

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

ASSESSMENT & TEST REPORTS:

The equipment listed has successfully met the assessment and test requirements as recorded in:

Test Report No. and Issuing Body: **30493 – TestSafe**
Quality Assessment Report No. and Issuing Body: **07.002/2010 – TestSafe**

File Reference: **2008/009042**



Ujen Singh

Signed for and on behalf of issuing body

Quality & Certification Manager

Position

14/12/2010

Date of Issue

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This certificate is not transferable and remains the property of the issuing body and must be returned in the event of it being revoked or not renewed.

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Schedule

EQUIPMENT:

A range of flameproof terminal boxes including heating element tubes comprise a cylindrical terminal compartment and up to six tubes containing heating elements, which are permanently welded to the terminal box. The terminal compartment houses terminals for connection facilities and enclosed by a threaded cover or an alternative flanged joint cover.

The terminal box provides threaded entries for external connection of power supply and overpressure protection control circuit. The internal free volume of the terminal box shall not be greater than originally specified on the drawings, but the overall vaporiser design can be altered to suit individual application. Temperature control is provided as an integral welded part within the terminal assembly. The heating tubes are fully enclosed in a welded and pressurised vessel chamber of a Liquefied Petroleum Gas (LPG) vaporiser, which connect to the riser pipe through a welded flange joint. The range of the equipment for twin inlet covered is listed in the following Schedule 1.

Schedule 1

Model No.	Vaporising capacity (kg/h)		No. Heating Elements (kW)	Cylindrical Terminal Compartment		Heating Tube		Total internal Free Volume (cm ³)
	Propane	Butane		Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)	
40B	---	105	1x (11.5)	150	330	50	1765	19800
50P	115	---	1x (11.5)					
80B	---	210	2x (23.0)					
100P	230	---	2x (23.0)					
120B	---	320	3x (34.5)	200	310	50	1765	31500
150P	350	---	3x (34.5)					
160B	---	420	4x (46.0)					
200P	460	---	4x (46.0)					
200B	---	530	5x (57.5)	250	310	50	1765	111800
250P	580	---	5x (57.5)					
250B	---	660	6x (69.0)					
300P	695	---	6x (69.0)					

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CONDITIONS OF CERTIFICATION:

- 1 Separately certified cable glands and blanking plugs shall be used.
- 2 It is a condition of safe use that thermal protection device provided with the equipment shall be included in the wiring of the power supply and disconnect the supply in the event of their operation.
- 3 It is a condition of safe use that overpressure protection device provided with the equipment shall be included in the wiring of the power supply and disconnect the supply in the event of their operation.

DOCUMENTS:

Document Number	Document Title	Revision	Date yyyy-mm-dd
Product Manual			
MAN-0031	Electrically Heated Feed Back LPG Vaporiser	5	2010-08-11
Mechanical Details			
090-604-01	Mechanical details for vaporiser model twin inlet: 40B(105kg/hr Butane) 80B (210kg/hr Butane) 50P(115kg/hr Propane) 100P (230kg/hr Propane)	E	2009-12-15
090-606-01	Mechanical details for twin inlet model: 120B 320kg/hr & 160B 420kg/hr Butane 150P 320kg/hr & 200P 480kg/hr Propane	E	2009-12-15
090-608-01	Mechanical details for vaporiser twin inlet model: 200B(530 kg/hr Butane) 250B(660kg/hr Butane) 250P(580 kg/hr Propane) 300P(695kg/hr Propane)	E	2009-12-15
090-207-01	Vapouriser End Cap General Arrangement	A	2010-04-20
Electrical Details			
090-615-01	Electrical details for vaporiser models 40B, 50P & 80B, 100P	C	2005-07-20
090-616-01	Electrical details for vaporiser models 120B, 150P & 160B, 200P	C	2005-07-27
090-617-01	Electrical details for vaporiser models 200B, 250P & 250B, 300P	C	2005-08-03
Wiring Diagrams			
DJB 278	Internal and external connection diagrams for vaporiser 40B & 50P	Original	1990-10-08
DJB 279	Internal and external connection diagrams for vaporiser 80B & 100P	Original	1990-10-08
DJB 280a	Internal and external connection diagrams for vaporiser 120B & 150P	A	2001-03-16
DJB 281	Internal and external connection diagrams for vaporiser 160B & 200P	Original	1990-10-08

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Document Number	Document Title	Revision	Date yyyy-mm-dd
DJB 282	Internal and external connection diagrams for vaporiser 200B & 250P	Original	1990-10-08
DJB 283	Internal and external connection diagrams for vaporiser 250B & 300P	Original	1990-10-08
Heating Element			
090-001-00	Element heating for vaporiser DJB 0579	C	2005-07-07
Marking label			
070-107-01	Nameplate Electric Vaporisers Detail Drawing DJB 285	F	2009-05-22