



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 02ATEX1408

4 Equipment: RCA3-6VFP# Pilot Valves

5 Applicant: Goyen Controls Co Pty Ltd

6 Address: 268-292 Milpera Road
Milperra
Sydney
NSW 214
Australia

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R51A7756A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 (amendments A1 and A2)
EN 50018:2000 (amendment A1)
EN13463-1:2000

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G
EEx d IIB T6
EEx d IIB T3 (When anti-condensation heater is fitted)

Project Number 51A7756
Date 14 July 2003
C. Index 12

M D Shearman
Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England
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Email: exhazard@siratc.co.uk



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The RCA3-6VFP# comprises a rectangular aluminium alloy enclosure containing solenoid pilot valves. The enclosure comprises two halves, which when fitted together form a flanged joint. The lid is secured by ten M6 x 20 hexagonal socket cap head screws. The enclosure may contain up to six electrical solenoids, which activate up to six pneumatic valves. The valve ferrule tube forms a cylindrical (interference fit) joint with the enclosure. In the event of a leak process media is vented external to the flameproof enclosure.

Cable entry facilities are provided by means of a single M25 x 1.5 threaded entry facility designed to be installed with a suitably certified cable entry facility.

Supply voltages:

Coil Voltage	Cycle	Power
200/240 V	50/60 Hz	25 W
100/120 V	50/60 Hz	22 W
24 V	50/60 Hz	19 W
24 V	dc	20 Q

Duty Cycle:

0.5 sec on, 1 min off

Process details:

Air only at a maximum pressure of 8 bar

Design Option:

The inclusion of anti-condensation heaters as below:

Heater Voltage	Heater Power
24 Vdc	48 W
120 V	100 W
240/220 V	100 W
100 V	100 W

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14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Title
	601122	3 of 3	1	02 Apr 03	Voltage Plate
	604262	1 of 1	2	20 Feb 02	Ferrule And Top Ass'y 3D2 F.P.
	604263	1 of 1	8	01 Mar 02	Ferrule Tube 3D2-FP
	604466	1 of 1	6	18 Dec 02	RCA3-6VFP/DIP (4-6) Base
	604467	1 of 1	8	18 Dec 02	Cover RCA3-6VFP/DIP (4-6)
	604469	1 of 2	3	17 Dec 02	Blanking Plate
	604470	1 of 1	1	23 Apr 93	RCA3-6VFP(4-6) General Arrangement Depiction of Flameproof Requirements
	604479	1 of 1	2	23 Apr 93	RCA3-6VDIP(4-6) General Arrangement Depiction of Flameproof Requirements
	604484	1 of 1	4	18 Dec 02	Aust-T6/UL. Class I-T6/ Class 1-14 RCA3-6VFP (4-6) Assy
	604485	1 of 1	3	02 Apr 03	Aust-T6/UL. Class I-T6/ Class 1-14 RCA3-6VDIP (4-6) Assy
	604488	1 of 1	4	20 Feb 02	Body RCA 3D2-T
	604714	1 of 1	1	18 Dec 02	Layout – Cover Insert RCA3-6VFP (4-6) Valves Installed
	604716	1 of 1	1	02 Apr 03	Layout – Cover Insert RCA 3-6VFP & 3-6VDIP
	604717	1 of 1	1	30 Apr 03	3-6V Pilot Enclosure Heater-Thermostat Layout
	609233	1 of 1	31	26 Aug 02	Body RCA3D2-T
	690091	1 of 1	2	23 Sep 02	Heater Element 1/2" Diameter

Report No. R51A7756A

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R51A7756A.

17 CONDITIONS OF CERTIFICATION

The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Each enclosure shall be subjected to a routine overpressure test of 10.2 bar for at least 10 s as required by clause 16.1 of EN 50018:2000. There shall be no permanent deformation or damage to the enclosure.

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