

ATEX DIRECTIVE 94/9/EC

EC Type Examination Certificate No. TRL03ATEX11001X

EC TYPE EXAMINATION CERTIFICATE



Product: Electrically Heated Pressure Regulator
Model/Type Ref.: HPR, HPR-2XW, DHR and CV
Brief description of the product: Electrically Heated Pressure Regulator
Product type: Equipment
Client name and address: Circle Seal Controls Inc./ Go Inc.
2301 Wardlow Circle, Box 3300
Corona, CA 92878 USA

Manufacturing location (see page 2 for details): Hoke/ Go Inc. Circle Seal Controls Inc./ Go Inc.
405 Centura Court 2301 Wardlow Circle, Box 3300
Spartansburg, SC 29303 USA Corona, CA 92878 USA

ATEX certification code **CE II 2 G EEx d IIC T1...T3(Ta=-30°C to +55°C)**

A sample of product has been tested and found to be in conformity with EN 50014:1997/A2: 1999 and EN 50018:2000/A1:2001 as shown in the test report reference no: XU1036/4469.

This EC Type Examination Certificate has been established by a body notified to the Member States and Commission of the European Communities according to the provisions of Article 9 of the ATEX Directive of 23 March 1994.

This EC Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production. The manufacturer of the equipment referred to in this certificate has the responsibility to ensure that the apparatus conforms to the specification laid down in the schedule to this certificate and has satisfied the routine verifications and tests referred to therein. This certificate and its schedules may only be reproduced in its entirety and without change. Certificate issued in accordance with the ATEX Certification Scheme.

S K Barrowcliff, Director, Safety Division

Issue date: 15 August 2003

Copy No.: 1e

Distribution:
Copies 1e to Circle Seal Inc;
Copies 2 & 3 held by TRL Compliance Services Ltd.

FULL ADDRESS OF MANUFACTURING LOCATION

Hoke/ Go Inc.
405 Centura Court
Spartansburg, SC 29303 USA

Circle Seal Controls Inc./ Go Inc.
2301 Wardlow Circle, Box 3300
Corona, CA 92878 USA

GENERAL DESCRIPTION OF EQUIPMENT INCLUDED WITHIN THE SCOPE OF THIS CERTIFICATE

The HPR series electrically heated pressure regulators consists of a heat exchanger mounted inside a pressure regulation device and an integrally mounted temperature controller in a flameproof housing.

The HPR-2XW series electrically heated pressure regulators incorporate a removable heat exchanger unit.

The DHR series electrically heated dual pressure regulators incorporate two discrete regulators that are heated by a common temperature controller.

The CV series cylinder vaporizer electrically heated two stage pressure regulators incorporate a two stage pressure reducing regulator.

LIST OF APPROVED DRAWINGS AND DOCUMENTS

| Number | Rev | Pages | Date | Description |
|-------------|-----|-------|-------------|---|
| 108067-ATEX | - | 1 | 18 Jun 2003 | Assembly, Regulator, Electric, HPR-2, ATEX |
| 108069-ATEX | - | 1 | 18 Jun 2003 | Assembly, Regulator, Electric, HPR-2XW, ATEX |
| 108799-ATEX | - | 1 | 18 Jun 2003 | Assembly, Regulator, Electric, CV, ATEX |
| 111206-ATEX | - | 1 | 18 Jun 2003 | Assembly, Regulator, Electric, DHR, ATEX |
| 109819-ATEX | - | 1 | 28 Jul 2003 | Condulet, Machined, ATEX |
| 046403-ATEX | - | 1 | 28 Jul 2003 | Plug, Ground, ATEX |
| 046500-ATEX | - | 1 | 28 Jul 2003 | Bushing, Reducing |
| 109323-ATEX | - | 1 | 30 Jul 2003 | Cap, Condulet, ATEX |
| 018119 | A | 1 | 30 Jul 2003 | Screw, Socket Set |
| 107834-ATEX | F | 1 | 30 Jul 2003 | Fitting, Heat Exchanger |
| 109790-ATEX | F | 1 | 30 Jul 2003 | Fitting, Heat Exchanger |
| 100422-ATEX | F | 1 | 30 Jul 2003 | Fitting, Heat Exchanger |
| 106828-ATEX | - | 1 | 31 Jul 2003 | Assy, Welded, Block, Electrical |
| 110520-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 120 VAC, TCO, ATEX |
| 110521-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 240 VAC, TCO, ATEX |
| 110522-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 50 Watts, 120 VAC, TCO, ATEX |
| 110523-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 50 Watts, 240 VAC, TCO, ATEX |
| 110524-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 40 Watts, 120 VAC, TCO, ATEX |
| 110525-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 40 Watts, 240 VAC, TCO, ATEX |
| 110526-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 120 VAC, TCO, ATEX |
| 110527-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 240 VAC, TCO, ATEX |
| 110914-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 240 VAC, 20 cm, TCO, ATEX |
| 111145-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 240 VAC, 400 mm TCO, ATEX |
| 106695-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 120 VAC, ATEX |
| 106696-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 150 Watts, 240 VAC, ATEX |
| 106842-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 120 VAC, ATEX |
| 106843-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 240 VAC, ATEX |

| Number | Rev | Pages | Date | Description |
|-------------|-----|-------|-------------|---|
| 106844-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 50 Watts, 120 VAC, ATEX |
| 106845-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 50 Watts, 240 VAC, ATEX |
| 106849-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 40 Watts, 120 VAC, ATEX |
| 106850-ATEX | I | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 40 Watts, 240 VAC, ATEX |
| 110239-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 3', ATEX |
| 110820-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 240 VAC, 20 cm |
| 110915-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 40 Watts, 240 VAC, ATEX |
| 111160-ATEX | - | 1 | 29 Jul 2003 | Assy, Heater/Thermistor, 100 Watts, 120 VAC, 18", ATEX |
| 110542 | D | 1 | 05 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110543 | D | 1 | 05 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110544 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110545 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110546 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110547 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110548 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 110549 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 111255 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 111256 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 111257 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 111258 | D | 1 | 09 Jun 2003 | Label, Vaporizing Regulator, ATEX |
| 113137 | - | 1 | 24 Jul 2003 | Label, Hot Surface |
| 113144 | - | 1 | 31 Jul 2003 | Label, Temperature, Wiring, ATEX |
| 113117 | - | 1-5 | 25 Jun 2003 | Installation Procedure for Vaporizing Regulator |
| 108727 | C | 1-5 | 05 Jun 2003 | Disassemble/ Assemble Procedure for Vaporizing Regulator |

CONDITIONS FOR MANUFACTURING

100% Hydrostatic testing at (240 to 260psi/16.55 to 17.92 bar) as per Circle Seal test procedure 113109.

SPECIAL CONDITIONS FOR SAFE USE

1. Units equipped with thermal cut out; EEx d IIC T3
Units not equipped with thermal cut out;
 - a) EEx d IIC T3 when unit rated at maximum power of 40W
 - b) EEx d IIC T2 when unit rated at maximum power of 50W
 - c) EEx d IIC T1 when unit rated at maximum power of 100W
 - d) 150 W units must be fitted with thermal cut out

2. A suitable ATEX certified stopping box must be installed immediately before the enclosure.