



1 **TYPE EXAMINATION CERTIFICATE**

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

- 3 Type Examination Certificate Number: **Baseefa03ATEX0296X**
- 4 Equipment: **A TYPE EP000/TB/N SOLENOID VALVE OPERATOR UNIT**
- 5 Manufacturer: **RGS ELECTRO-PNEUMATICS LIMITED**
- 6 Address: **Oswaldtwistle, Lancashire, BB5 4WZ**

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

8 Baseefa (2001) Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **02(C)0131**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50021: 1999 EN 50281-1-1: 1998

except in respect of those requirements listed at item 18 of the Schedule.

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3GD T135°C EEx nA II T4 (-40°C ≤ T_{amb} ≤ 60°C) or as called up in the schedule

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0887**

Project File No. **02/0131**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa03ATEX0296X

15 Description of Equipment

A Type EP000/TB/N Solenoid Valve Operator Unit rated at 10VA, 12V to 440V, 50Hz comprising a rectangular cast alloy (MAZAK) enclosure containing a solenoid encapsulated in epoxy resin compound and screw terminals for external conductors. It is mounted on the valve body and the maximum armature travel is limited by a shoulder on the valve face.

The enclosure is provided with an internal earth terminal, an access cover and an M20 conduit thread to accept an ATEX certified screw-in compression type cable gland or conduit stopping gland, with or without an adaptor, chosen in accordance with a recognised Code of Practice for the conditions of use.

These units have a Temperature Class T4 with ambients up to 60°C (or T135°C).

Variation 0.1

An alternative housing manufactured from stainless steel with an external earthing facility and a cylindrical terminal chamber having a screwed cover incorporating an 'O' ring seal.

This forms the Type EP000/SS/N with a Temperature Class T4 with ambients up to 60°C (or T135°C).

Variation 0.2

Substitution of the terminal chamber by a plug and socket arrangement in compliance with DIN 43650A with the housing made from polyamide +30% glass fibre.

This forms the Type EP000/PS/N with a Temperature Class T4 with ambients up to 48°C (or T115°C).

Variation 0.3

Alternative 2.4W, 6 to 110V d.c. coils fitted with an optional spike suppression diode.

With these coils fitted the units have a Temperature Class T6 with ambients up to 60°C (or T85°C).

16 Report Number

02(C)0131

17 Special Conditions for Safe Use

1. The temperature of the medium passing through the valve must not exceed 60°C except for the a.c. version of the Type EP000/PS/N where it must not exceed 48°C.
2. Internal earthing conductors must be connected via a crimped ring type connector.
3. The valve assembly shall be complete when the coil is energised.
4. The incoming mains cable to the Type EP000/PS/N version must be provided with additional clamping in order to prevent the plug and socket cable gland from being subjected to a tensile load.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.



19 Drawings and Documents

Number	Issue	Date	Description
CV5074	1	02/10/02	G.A.
AV5091	1	12/12/02	Label TB and PS versions
AV5092	1	12/12/02	Label SS version
AV5124	1	11/03/03	Warning label PS version