



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0356X**

4 Equipment or Protective System: **Range of HG Rotary Valves**

5 Manufacturer: **RotaVal Limited**

6 Address: **Chippenham, Wiltshire, SN14 6LH**

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

8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. 03(C)0194

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

EN1127-1: 1997

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 or protective system 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 or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II D

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

Baseefa (2001) Ltd. Customer Reference No. 5057

Project File No. 03/0194

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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On behalf of
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Re-Issued 13th December 2004 for amendment



13 **Schedule**

14 **Certificate Number Baseefa04ATEX0356X**

15 **Description of Equipment or Protective System**

The Range of HG Rotary Valves comprises sizes 80, 100, 125, 150, 200, 250 and 300.

Each rotary valve has a metal body with flanged inlet and outlet process connections. A rotor is situated centrally within the body and has between 8 and 16 equi-spaced vanes which are precisely machined to create a controlled clearance with the internal diameter of the body and at the vane ends.

The body may be provided with purge ports at the shaft or outlet side. In addition mid-point vent ports may be provided, the rotor design is such that there are at least two vanes providing sealing between the process and any vent port.

The rotor shaft is fitted with gland seals and is bearing supported externally at each end. The drive end is provided with a coupling for attachment to a drive assembly which is not included within the scope of this certificate.

Valves are constructed in stainless steel and are explosion pressure shock resistance for a maximum explosion pressure at the valve of 10bar.

The valve constitutes an autonomous protective system; it is intended to act as a flame barrier for St1 and St2 dusts.

16 **Report Number**

Baseefa Certification Report 03(C)0194

17 **Special Conditions for Safe Use**

1. The drive must be such that the following speeds cannot be exceeded.

Valve Size	Speed (r/min)
80 to 200	27
250 and 300	23

2. The valves may only be used as a flame barrier for St1 and St2 dusts having the appropriate explosion pressure at the valve.

3. The installation must be fitted with a suitable detection system to ensure that the rotation of the valve is stopped automatically if an explosion is detected in the process stream.

4. It is the user's responsibility to ensure that the level of safety integrity applied to the measures taken to meet 1 to 3 above is appropriate to the level of risk associated with the installation.

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
99108-00201 Sheet 1 of 4	A	06/09/04	General Arrangement HG Rotary Valves
99108-00201 Sheet 2 of 4	A	09/09/04	Rotor and Vane Details
99108-00201 Sheet 3 of 4	A	09/09/04	Valve External Nameplate
99108-00201 Sheet 4 of 4	A	09/09/04	Baseefa Certification Plate