



EC - TYPE EXAMINATION CERTIFICATE

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

- 3 EC - Type Examination Certificate Number: **Baseefa11ATEX0127X**
- 4 Equipment or Protective System: **RV Range of Rotary Valves Sizes 85mm to 600mm – Protective System**
- 5 Manufacturer: **Rotolok Ltd**
- 6 Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**
- 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, 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. **10(C)0189**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 15089: 2009
EN 14460: 2006
- 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 :

Ex II D

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

Baseefa Customer Reference No. **6385**

Project File No. **10/0189**

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

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa11ATEX0127X

15

Description of Equipment or Protective System

The RV Range of Rotary Valves consists of sizes 85, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500 and 600.

The rotary valves comprise a metal body with either round or square flanged inlet and outlet process connections. A metal rotor is situated centrally within the body. The rotor used on the size 85 to 500 valves can be fitted with 8 to 16 equi-spaced vanes. The size 600 rotor can have 10 to 20 equi-spaced vanes. The vanes are precisely machined to create a controlled clearance with the internal diameter of the casing/body and at the vane tips. The rotors on valves sizes 300 upwards include vane stiffeners to aid the mechanical strength of the rotor.

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

The casing/body on the valves is fitted with an earth connection facility.

The shaft gland seal may be fitted with 1/8" BSP connection for air purging.

The rotor may be supplied with scalloped rotor pockets, staggered pockets and reduced capacity pockets.

The internal surface of the valves may have the following coatings; Nickel, Tungsten Carbide, PTFE or Hard Facing.

16

Report Number

Baseefa Certification Report 10(C)0189

17

Special Conditions for Safe Use

1 When the valves are connected to a drive unit the rotational speed of the valves must not exceed the following maximum rpm.

Valve Size	Speed (r/min)
85	224
100	150
125	152
150	127
200	95
250	76
300	63
350	54
400	47
450	42
500	38
600	31

2. The valves may only be used as a barrier for St1 and St2 dusts.

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. The valve is to be examined in accordance with the manufacturer's instructions and returned for repair or refurbishment as necessary.



4. It is the user's responsibility to ensure that the level of safety integrity applied to the measures taken to meet 1 and 3 above are 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
F0005	A	23/05/2011	Round Flange Motorised Arrangement ATEX ST2 Rotary Valve
F0006	A	23/05/2011	Square Flange Motorised Arrangement ATEX ST2 Rotary Valve
F0007	A	23/05/2011	Cross Sections ATEX Rotary Valve Range
F0008	A	23/05/2011	Component Details ATEX ST2 Round RV Range
F0009	A	23/05/2011	Component Details ATEX ST2 Square RV Range

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa11ATEX0127X/1**
- 4 Equipment or Protective System: **RV Range of Rotary Valves Sizes 85mm to 600mm – Protective System**
- 5 Manufacturer: **Rotolok Ltd**
- 6 Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa11ATEX0127X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **6385**

Project File No. **13/0086**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa11ATEX0127X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

To permit an alternative marking arrangement which includes separate details of the Non-Electrical equipment certificate Baseefa09ATEX0266X on the same nameplate.

Variation 1.2

To include additional design features which include open/closed combination rotor and quick release rotor.

16 **Report Number**

13(C)0086

17 **Specific Conditions of Use**

5. The rotary valve can be dual marked with the Equipment certificate marking when the individual valve arrangement complies with both certificates.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
F0005	1 of 1	B	02/05/2013	Round Flange Bareshaft Arrangement ATEX ST2 Rotary Valve
F0006	1 of 1	B	02/05/2013	Square Flange Bareshaft Arrangement ATEX ST2 Rotary Valve
F0013	1 of 1	A	07/03/2014	Additional Features ATEX ST2 RV Range