



EC - TYPE EXAMINATION CERTIFICATE

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

- EC - Type Examination Certificate Number: **Baseefa09ATEX0266X**
- Equipment or Protective System: **RV Range of ATEX Rotary Valves**
- Manufacturer: **Rotolok Ltd**
- Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**
- This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 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. **09(C)0415**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 13463-1: 2009**
EN 13463-5: 2003
- except in respect of those requirements listed at item 18 of the Schedule.
- 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.
- 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.
- The marking of the equipment or protective system shall include the following :

(Ex) II 1 GD c T4 T135°C

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

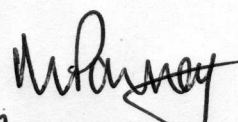
Baseefa Customer Reference No. **6385**

Project File No. **09/0415**

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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

Re-issued 28 April 2010 to replace original



13

Schedule

14

Certificate Number Baseefa09ATEX0266X

15 Description of Equipment or Protective System

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

Each rotary valve comprises a metal body with flanged inlet and outlet process connections.

A rotor is situated centrally within the body and has 8 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 on the shaft or outlet side. In addition mid-point vent ports may be provided, in these cases the rotor is such that there are at least two vanes between the upstream process side of the valve and the vent port.

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

16 Report Number

Baseefa Certification Report 09(C)0415

17 Special Conditions for Safe Use

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

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

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
F0001	B	25/01/10	Round Flange Bareshaft Arrangement - ATEX Rotary Valve Range
F0003	A	3/12/09	Cross Sections - ATEX Rotary Valves Range
F0004	B	25/01/10	Square Flange Bareshaft Arrangement - ATEX Rotary Valve Range



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

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

Supplementary EC - Type Examination Certificate Number: **Baseefa09ATEX0266X/1**

Equipment or Protective System: **RV Range of ATEX Rotary Valves**

Manufacturer: **Rotolok Ltd**

Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**

This supplementary certificate extends EC – Type Examination Certificate No. Baseefa09ATEX0266X 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.

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

Baseefa Customer Reference No. **6385**

Project File No. **11/0092**

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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



Schedule

Certificate Number Baseefa09ATEX0266X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To increase the range of the valves to include the size 750 round flange type and the size 750 and 915 square flange type.

16 Report Number

None

17 Special Conditions for Safe Use

The following special condition from the original certification is amended as follows:

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

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
750	25
915	20

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
F0001	1 of 1	C	19/01/2011	Round Flange Bareshaft Arrangement ATEX Rotary Valve Range
F0004	1 of 1	C	19/01/2011	Square Flange Bareshaft Arrangement ATEX Rotary Valve 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: **Baseefa09ATEX0266X/2**

4 Equipment or Protective System: **RV Range of ATEX Rotary Valves**

5 Manufacturer: **Rotolok Ltd**

6 Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa09ATEX0266X 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

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.baseefa.com/terms-and-conditions.asp>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,

Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail info@baseefa.com web site www.baseefa.com

Registered in England No. 4305578

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

R S Sinclair
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa09ATEX0266X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit an alternative marking arrangement which includes separate details of the Protective System certificate Baseefa11ATEX0127X on the same nameplate.

Variation 2.2

To include additional design features which include closed rotor, re-greasable flange mounted bearings, replaceable closed tips, replaceable open blades, open/closed combination rotor, inlet deflector, main body inspection door, quick release rotor, blow through outlet arrangement, body with offset inlet and outlet flanges and additional sizes for the inlet and outlet flanges of the valves. The additional sizes range from 80mm x 100mm, upto and including 500mm x 1250mm.

16 Report Number

13(C)0086

17 Specific Conditions of Use

2. The rotary valve can be dual marked with the Protective System certificate marking when the individual valve arrangement complies with both certificates.
3. Further guidance on the issues relating to electrostatics hazards associated with the conveying of process medium can be found in technical specification document PD IEC/TS 60079-32-1:2013.

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
F0001	1 of 1	D	02/05/2013	Round Flange Bareshaft Arrangement ATEX Rotary Valve Range
F0004	1 of 1	D	02/05/2013	Square Flange Bareshaft Arrangement ATEX Rotary Valve Range
F0010	1 of 1	A	02/07/2014	Additional Features ATEX Rotary Valve Range
F0015	1 of 1	A	03/07/2014	Tip and Blade Details ATEX Rotary Valve Range

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

3 Supplementary EU - Type Examination Certificate Number: **Baseefa09ATEX0266X/3**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **RV Range of ATEX Rotary Valves**

5 Manufacturer: **Rotolok Ltd**

6 Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa09ATEX0266X to apply to products 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.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **6385**

Project File No. **17/0107**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/baseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

R S Sinclair
R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa09ATEX0266X/3

15 Description of the variation to the Product

Variation 3.1

To permit the use of an alternative material for the replaceable closed tip design.

16 Report Number

17(C)0107

17 Specific Conditions of Use

None additional to those listed previously

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
F0015	1 of 1	B	09/01/2017	Tip and Blade Details ATEX Rotary Valve Range

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU - Type Examination Certificate **Baseefa09ATEX0266X – Issue 4**
Number:

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **RV Range of ATEX Rotary Valves**

Manufacturer **Rotolok Ltd**

Address: **1 Millennium Place, Tiverton, Devon, EX16 6SB, United Kingdom**

This re-issued certificate extends EC Type Examination Certificate No. **Baseefa09ATEX0266X** to apply to product 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.

SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**.

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

EN ISO 80079-36:2016 EN ISO 80079-37:2016

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

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

Ex II 1 GD Ex h IIC T4 Ga
Ex h IIC T135°C Da

SGS Fimko Oy Customer Reference No. **6385**

Project File No. **21/0789**

This document is issued by the Company subject to their General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of their intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Oy

Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Mikko Välimäki
SGS Fimko Oy

Schedule

13

14 **Certificate Number Baseefa09ATEX0266X – Issue 4**

15 Description of Product

The Rotolok Range of Rotary Valves comprises sizes 50, 85, 100, 125, 200, 250, 300, 350, 400, 450, 500, 600, 750 and 915.

Each rotary valve comprises a metal body with flanged inlet and outlet process connections.

A rotor is situated centrally within the body and has 8 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 on the shaft or outlet side. In addition, mid-point vent ports may be provided, in these cases the rotor is such that there are at least two vanes between the upstream process side of the valve and the vent port.

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

16 Report Number

See certificate history.

17 Specific Conditions of Use

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

Valve Size	Speed (r/min)
50	375
85	224
100	150
125	152
150	127
200	95
250	76
300	63
350	54
400	47
450	42
500	38
600	31
750	25
915	20

2. The rotary valve can be dual marked with the Protective System certificate marking when the individual valve arrangement complies with both certificates.
3. Further guidance on the issues relating to electrostatics hazards associated with the conveying of process medium can be found in technical specification document PD IEC/TS 60079-32-1:2013.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
F0001#	1 of 1	E	22/11/2022	Round Flange Bareshaft Arrangement ATEX Rotary Valve Range
F0003		B	05/04/2023	Cross Sections - ATEX Rotary Valves Range
F0004#	1 of 1	F	06/04/2023	Square Flange Bareshaft Arrangement ATEX Rotary Valve Range

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
F0010	1 of 1	A	02/07/2014	Additional Features ATEX Rotary Valve Range
F0015	1 of 1	B	09/01/2017	Tip and Blade Details ATEX Rotary Valve Range

#These drawings are common to BAS22UKEX0050X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa09ATEX0266X	1 February 2010	The release of the prime certificate. The associated test and assessment against the requirements of EN 13463-1:2009 and EN 13463-5:2003 is documented in Test Report No. 09(C)0415.
Baseefa09ATEX0266X/1	4 March 2011	To increase the range of the valves to include the size 750 round flange type and the size 750 and 915 square flange type.
Baseefa09ATEX0266X/2	15 August 2014	To permit an alternative marking arrangement which includes separate details of the Protective System certificate Baseefa11ATEX0127X on the same nameplate. To include additional design features which include closed rotor, re-greasable flange mounted bearings, replaceable closed tips, replaceable open blades, open/closed combination rotor, inlet deflector, main body inspection door, quick release rotor, blow through outlet arrangement, body with offset inlet and outlet flanges and additional sizes for the inlet and outlet flanges of the valves. The additional sizes range from 80mm x 100mm, unto and including 500mm x 1250mm. Baseefa certification report 13(C)0086 refers.

Certificate No.	Date	Comments
Baseefa09ATEX0266X/3	28 March 2017	To permit the use of an alternative material for the replaceable closed tip design. Baseefa certification report 17(C)0107 refers.
Baseefa09ATEX0266X Issue 4	16 August 2024	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN ISO 80079-36:2016 and EN ISO 80079-37:2016. Addition of a 50mm Rotary Valve. SGS Baseefa certification report 20(C)0789/01 refers.
For drawings applicable to each issue, see original of that issue.		