1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 07ATEX1323X** Issue: **9**

4 Equipment: **SI-2.1 and SB-2 Electro - Hydraulic Power unit**

5 Applicant: **Rotork Fluid Systems (A Division of Rotork UK Ltd.)**

6 Address: 9 Brown Lane West
Holbeck
Leeds
LS12 6BH
England

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-1:2014+AC:2018 EN 60079-7:2015+A1:2018 EN 13463-1: 2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

SI-2.1 Electro - Hydraulic Power Unit

II 2 G
Ex db eb[1] IIB T4 Gb Ta = -40°C to +65°C
Ex db eb[1] IIB T4 Gb Ta = -50°C to +65°C
(Single Ø supply voltage only)
Ex db eb[1] IIC T4 Gb Ta = -20°C to +65°C

SB-2 Electro - Hydraulic Power Unit

II 2 G
Ex db eb[1] IIB T4 Gb Ta = -40°C to +60°C

([1] "eb" added on versions with reased safety terminal enclosure option, for single Ø and DC versions only)

Project Number 1153

Signed:

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechseweg 310,
6812 AR, Arnhem,
Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 07ATEX1323X**
Issue 9

13 **DESCRIPTION OF EQUIPMENT**

The Electro - Hydraulic Power Unit, is a self-contained electrically operated source of hydraulic power, which can be instantaneously switched to rease or decrease the pressure to a suitable spring return/ double acting, linear or quarter-turn actuator. The power unit consists of four dist t enclosures, which are separated by the centre housing casting.

The electrical enclosure, which has been designed to meet the requirements of 'Ex d' type of protection, can contain the following equipment;

SI-2.1 - a display window, control PCB, power PCB, transformer and pressure transducer
SB-2 - a control PCB, with transformer and a pressure switch

The terminal enclosure contains the electrical connections for external use. The power supply for 3-phase units is housed in an extended version of the terminal cover. The enclosure, when fitted with the short terminal cover, has been designed to meet the requirements of 'Ex d' type of protection. The electrical connections have been designed to meet the requirements of 'Ex e' type of protection.

The motor enclosure contains an electric motor and up to three solenoid valves. Connection between the electrical enclosure and the motor enclosure is made with a component certified threaded bush to PTB 97 ATEX 1047 U

The oil reservoir contains a pump, pressure relief valve and a check valve.

The power supply of the unit can either be:

SI-2.1
24 Vdc (±10%)
115 / 230 Vac, 50 / 60 Hz single-phase (±10%)
380-480 Vac, 50 / 60 Hz 3-phase (±10%)

SB-2
115 / 230 Vac, 50 / 60 Hz single-phase (±10%)

The enclosure is made from cast aluminium alloy.

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EU-TYPE EXAMINATION CERTIFICATE **Sira 07ATEX1323X**
Issue 9

SI-2.1 Part Number Structure

SI-2.1-abcde

a	b	c	d	e
0 FAIL-SAFE	0 STANDARD INTERNAL S.V.	0 SINGLE-PHASE 110-120 Vac 50/60 Hz	0 DIGITAL CONTROL	0
1 *FAIL IN POSITION*	1 STANDARD DUAL INTERNAL S.V.	1 SINGLE-PHASE 230 Vac 50/60 Hz	1 ANALOGUE CONTROL	1 ATEX IIB (-40°C) 1B ATEX IIB (-50°C) 1C ATEX IIC (-20°C)
2 FAIL-SAFE W/O PRESSURE TRANSMITTER	2 *STANDARD* *INTERNAL S.V.* & EXTERNAL S.V.	2 24Vdc (Not suitable for -50°C) 2A 24Vdc Aux Supply – 24Vdc	2 PAKSCAN	2
3 FAIL IN POSITION W/O PRESSURE TRANSMITTER	3 *SLOW ACTING* *INTERNAL S.V.*	3 3-PHASE 380-480 V 50/60 Hz (Not suitable for -50°C) 3A 3-PHASE 380-480V 50/60HZ Aux Supply – 24Vdc	3 PAKSCAN ANALOGUE INPUTS	3
4 DOUBLE ACTING	*4* *SLOW ACTING DUAL* *INTERNAL S.V.*	4	4 MODBUS SINGLE CHANNEL	4
5 DOUBLE ACTING W/O PRESSURE TRANSMITTER	5 *STANDARD* *INTERNAL S.V.* & DUAL EXTERNAL S.V.	5	5 MODBUS DUAL CHANNEL	5
6	6 STANDARD INTERNAL NC S.V. & HARDWIRED INTERNAL N/O S.V.	6	6 *PROFIBUS DUAL* *CHANNEL*	6
7	7 STANDARD INTERNAL NC S.V. & HARDWIRED EXTERNAL N/O S.V.	7	7 DEVICENET	7
8	8 STANDARD DUAL HARDWIRED INTERNAL NO S.V.	8	8 FOUNDATION FIELDBUS	8
9	9 DOUBLE ACTING	9	9 PROFIBUS SINGLE CHANNEL	9

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EU-TYPE EXAMINATION CERTIFICATE **Sira 07ATEX1323X**
Issue 9

SB-2 Part Number Structure

SB-2-abcde

a	b	c	d	e
0 FAIL-SAFE	0 STANDARD INTERNAL S.V.	0 SINGLE-PHASE 110-120 Vac 50/60 Hz	0 TWO-WIRE CONTROL	0
1 *FAIL IN POSITION*	1 STANDARD DUAL INTERNAL S.V.	1 SINGLE-PHASE 230 Vac 50/60 Hz	1 THREE-WIRE CONTROL	1 ATEX IIB
2 FAIL-SAFE W/O PRESSURE SWITCH	2 *STANDARD* *INTERNAL S.V.* & EXTERNAL S.V.	2	2	2
3 FAIL IN POSITION W/O PRESSURE SWITCH	3 *SLOW ACTING* *INTERNAL S.V*	3	3	3
4	*4* *SLOW ACTING DUAL* *INTERNAL S.V.*	4	4	4
5	5 *STANDARD* *INTERNAL S.V.* & DUAL EXTERNAL S.V.	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

Variation 1 - This variation introduced the following changes:

i. The extension of the lower ambient temperature range to -50°C in the case of the SI-2.1 single phase, gas group IIB devices.
ii. Modifications to approval drawings.
iii. Corrections to the Ambient marking shown in section 12.

Variation 2 - This variation introduced the following changes:

i. Lemac motors were introduced as an alternative to the original Crompton motor.
ii. The motor shaft diameter on the 24 Vdc motor version was modified.
iii. The introduction of an alternative terminal cover part no 48870.
iv. A clear film, SLX polycarbonate over-mould, was added to the outer face of the Makrolon® 6717 window.
v. The use of an alternative terminal bung material was recognised.
vi. Conditions of certification clauses 17.3 to 17.6 were rationalised into one condition.

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Variation 3 - This variation introduced the following changes:

i. The recognition of an alternative control board (SMP-00-50825) on the S1-2.1(IIB & IIC).
ii. The introduction of a higher upper ambient temperature on the SI-2.1 (IIB only), changing from +60°C to +65°C, the markings in Section 12 were amended accordingly.
iii. To permit a company name change, from Rotork Skilmatic (A Division of Exeeco Ltd) to Rotork Fluid Systems (A Division of Exeeco Ltd).
iv. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest version of the EN 60079 series of standards, the documents originally listed in Section 9, EN 60079-0:2006, EN 60079-1:2004 and EN 13463-1:2001, were replaced by those currently listed, the markings in Section 12 were amended accordingly. EN 60079-7:2007 remained the same.

Variation 4 - This variation introduced the following changes:

i. The Applicant's name and address was changed from Rotork Fluid Systems (A Division of Exeeco Ltd), Regina House, Ring Road, Bramley, Leeds, LS13 4ET, UK, to that shown on page 1.

Variation 5 - This variation introduced the following changes:

i. The introduction of a long electrical cover and associated PCB.
ii. An rease in the terminal lid flamepath gap dimension from 0.15 mm to 0.2 mm.
iii. The Description, Special Conditions For Safe Use and Conditions of Certification were amended to reflect these changes.

Variation 6 - This variation introduced the following changes:

i. SI-2.1- rease in the ambient temperature range from +60ºC to +65ºC.
ii. Modifications to the 'k' and 'm' dimensions associated with the motor shaft flamepaths.
iii. SI-2.1 – introduce an alternative terminal cover (long) manufactured in LM25-TF (heat treated) - BS 1490.
iv. SB-2 introduce an alternative electrical cover manufactured in LM25-TF (heat treated)- BS 1490.
v. SI-2.1 and SB-2 introduction of alternative motor types.
vi. Drawing amendments to address the above modifications, and certain other minor modifications as detailed.
vii. Modification to correct typographical errors.

Variation 7 - This variation introduced the following changes:

i. Amendments to the certification code marking (as illustrated on the certificates) to align the style with that applied to other certificates held by the same manufacturer.

Variation 8 - This variation introduced the following changes:

i. Update approval standards to latest versions:
   - EN 60079-0:2007 to EN IEC 60079-0:2018
   - EN 60079-1:2007 to EN 60079-1:2014+AC:2018
   - EN 60079-7:2007 to EN 60079-7:2015+A1:2018
ii. Introduction of an alternative Short Terminal Cover 46754 and 46754CH CASTING, TERMINAL COVER (Gravity Die Cast) Aluminium BS EN 1706-AC-42000-K-T6 (LM25TF) DC and single phase version.

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iii. Drawing amendments to address changes covered by this variation along with minor editorial changes and corrections, e.g. correct supplier/manufacturer details, remove "SMP" from drawing references, update material references to a common format.
iv. The marking in section 12 of the certificate was modified to more clearly define the information that is applied by the manufacturer.
v. The description was amended to remove the specific metallic content of the aluminium alloy used to make the outer enclosure components.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	08 April 2008	R15500-002A	The release of the prime certificate.
1	17 December 2008	R15500-004A	The introduction of Variation 1.
2	24 September 2009	R51A20632A	The introduction of Variation 2.
3	18 May 2011	R22749-004A/00	The introduction of Variation 3.
4	07 July 2014	R70007239A	The introduction of Variation 4.
5	24 September 2014	R70008045A	The introduction of Variation 5.
6	25 July 2016	R70078564A	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(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. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)* • The introduction of Variation 6.
7	13 October 2016	R70097646A	The introduction of Variation 7.
8	25 October 2018	R70193783A	The introduction of Variation 8.
9	15th October 2019	1153	• Transfer of certificate **Sira 07ATEX1323X** from Sira Certification Service to CSA Group Netherlands B.V..

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 In accordance with clause 5.1 of EN 60079-1, the critical dimensions of the flamepaths are:

Flamepath	Maximum Gap (mm)	Minimum L (mm)
Electrical Enclosure / Electrical Cover (SI-2.1)	0.15	26.2
Electrical Enclosure/Electrical Cover (SB-2)	0.15	26.2

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Flamepath	Maximum Gap (mm)	Minimum L (mm)
Terminal Enclosure/ Terminal Cover (Short)	0.15	26.7
Terminal Enclosure/ Terminal Cover (Long)	0.15	26.7
Terminal Enclosure/ Terminal Cover (Short) (IIB only)	0.2	26.7
Terminal Enclosure/ Terminal Cover (Long) (IIB only)	0.2	26.7
Main Body / Terminal Bung	0.115	25.95
Motor Enclosure/ Motor Cover	0.15	27.00
Motor Flange/Enclosure	0.15	27.00
Motor Bushing / Motor Flange	-0.035	28.00
Motor Shaft / Motor Bushing	0.167 (note 1)	28.00

[Note 1] This is based upon a minimum gap specification 'k' of 0.05 mm in accordance with clause 8.1.2 of IEC 60079-1.

15.2 All cover securing screws shall be stainless steel (A4-80) to ISO 4762.

15.3 When fitted with a polycarbonate window, the equipment shall be installed where the risk of impact upon the viewing window is low.

15.4 Any installation must ensure that any external sources of heating or cooling, when combined with the local ambient temperature does not cause the maximum or minimum operating temperature of the equipment to be exceeded. The hydraulic system connected to the Electro-Hydraulic Power Units could provide an external heat source.

15.5 This equipment includes some external, non-metallic parts, including the outer protective coating. Cleaning must only be carried out with a damp cloth.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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Certificate Annexe

Certificate Number: **Sira 07ATEX1323X**

Equipment: **SI-2.1 and SB-2 Electro - Hydraulic Power unit**

Applicant: **Rotork Fluid Systems (A Division of Rotork UK Ltd.)**

Issue 0

Drawing	Sheet	Rev.	Date	Description
HPU/149	1 of 1	D	06 Jun 05	Terminal Earth
HPU/A607	1 of 1	A	19 Jul 05	Certification Drawing, Terminal Bung (ATEX – IECEx)
HPU/A676	1 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A676	2 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A676	3 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A676	4 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A732	1 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIC T4 Approval
HPU/A732	2 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIC T4 Approval
HPU/A732	3 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIC T4 Approval
HPU/A732	4 of 4	A	17 Mar 08	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIC T4 Approval
HPU/A737	1 of 1	A	17 Mar 08	Certification Drawing Single-Phase Motor-Pump Assembly (SI-2.1)
HPU/A738	1 of 1	A	17 Mar 08	Certification Drawing 24Vdc Motor-Pump Assembly (SI-2.1)
HPU/A739	1 of 1	A	28 Mar 08	Certification Drawing, Normally Open Solenoid valve Assy (SI-2.1)
HPU/A740	1 of 1	A	28 Mar 08	Certification Drawing, Normally Closed Solenoid valve Assy (SI-2.1)
HPU/A741	1 of 1	0	30 Oct 07	Certification Drawing Blanking Plug Assembly (SI-2.1)
HPU/A743	1 of 4	A	17 Mar 08	Certification Drawing SB-2 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A743	2 of 4	A	17 Mar 08	Certification Drawing SB-2 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A743	3 of 4	A	17 Mar 08	Certification Drawing SB-2 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/A743	4 of 4	A	17 Mar 08	Certification Drawing SB-2 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Approval
HPU/754	1 of 1	0	30 Mar 06	Transmitter 0-16 bar Pressure (Gem Sensors)
HPU/782	1 of 1	0	30 Mar 06	Transmitter 0-16 bar Pressure (Variohm))
HPU/787	1 of 1	C	29 Nov 05	Line Bush (SI-2)
HPU/840	1 of 1	A	25 Mar 07	Switch, 0.16 Bar Pressure (Variohm)
HPU/853	1 of 1	0	12 Oct 07	Label, Ex d Terminal Cover (SI)
HPU/854	1 of 1	0	12 Oct 07	Label, Exe terminal Cover (SI)
HPU/856	1 of 1	A	17 Mar 08	Label, ATEX – Data (SI-2.1)
HPU/863	1 of 1	A	17 Mar 08	Label, ATEX – Data (SB-2)

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Certificate Annexe

Certificate Number: **Sira 07ATEX1323X**

Equipment: **SI-2.1 and SB-2 Electro - Hydraulic Power unit**

Applicant: **Rotork Fluid Systems (A Division of Rotork UK Ltd.)**

Issue 1

Drawing	Sheet	Rev.	Date (Sira stamp)	Description
HPU/A676	1 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	2 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	3 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	4 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	5 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A732	1 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	2 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	3 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	4 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	5 of 5	B	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A737	1 of 1	B	05 Dec 08	Certification Drawing, Single-Phase Motor – Pump Assembly (SI-2.1)
HPU/A738	1 of 1	B	05 Dec 08	Certification Drawing, 24Vdc Motor – Pump Assembly (SI-2.1)
HPU/A743	1 of 5	B	05 Dec 08	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	2 of 5	B	05 Dec 08	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	3 of 5	B	05 Dec 08	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	4 of 5	B	05 Dec 08	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	5 of 5	B	05 Dec 08	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A787	1 of 5	A	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C)Approval
HPU/A787	2 of 5	A	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C)Approval
HPU/A787	3 of 5	A	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C)Approval
HPU/A787	4 of 5	A	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C)Approval
HPU/A787	5 of 5	A	05 Dec 08	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C)Approval

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HPU/856	1 of 1	B	17 Dec 08	Label, ATEX – Data (SI-2.1)

Issue 2

Drawing	Sheets	Rev.	Date	Title
HPU/A676	1 of 5	C	01 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	2 of 5	C	01 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	3 of 5	C	01 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	4 of 5	C	01 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A676	5 of 5	C	01 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A732	1 of 5	C	02 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	2 of 5	C	02 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	3 of 5	C	02 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	4 of 5	C	02 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A732	5 of 5	C	02 Jul 09	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Approval
HPU/A743	1 of 5	C	02 Jul 09	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	2 of 5	C	02 Jul 09	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	3 of 5	C	02 Jul 09	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	4 of 5	C	02 Jul 09	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A743	5 of 5	C	02 Jul 09	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Approval
HPU/A737	1 of 1	C	22 Jul 09	Certification Drawing, Single-Phase Motor – Pump Assembly (SI-2.1)
HPU/A738	1 of 1	C	22 Jul 09	Certification Drawing, 24VdcMotor – Pump Assembly (SI-2.1)
HPU/A787	1 of 5	B	02 Jul 09	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C) Approval
HPU/A787	2 of 5	B	02 Jul 09	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C) Approval
HPU/A787	3 of 5	B	02 Jul 09	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C) Approval

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Certificate Annexe

Certificate Number: **Sira 07ATEX1323X**

Equipment: **SI-2.1 and SB-2 Electro - Hydraulic Power unit**

Applicant: **Rotork Fluid Systems (A Division of Rotork UK Ltd.)**

Drawing	Sheets	Rev.	Date	Title
HPU/A787	4 of 5	B	02 Jul 09	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C) Approval
HPU/A787	5 of 5	B	02 Jul 09	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 (-50°C to +60°C) Approval
HPU/A835	1 of 1	A	22 Jul 09	Certification Drawing, Single-Phase Motor – Pump Assembly (SI-2.1)
HPU/A836	1 of 1	A	22 Jul 09	Certification Drawing, 24VdcMotor – Pump Assembly (SI-2.1)
HPU/885	1 of 1	0	26 Aug 09	Certification Drawing SLX Film Over-Mould Window

Issue 3

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
HPU/942	1 of 1	0	15 Apr 11	Label, ATEX Data (SI-2.1)
HPU/944	1 of 1	0	15 Apr 11	Label, ATEX Data (SB-2)
HPU/949	1 of 1	0	24 May 11	Label, Ex d Terminal Cover (SI & SB)
HPU/950	1 of 1	0	24 May 11	Label, Ex e Terminal Cover (SI & SB)
HPU/960	1 of 1	0	15 Apr 11	Line Bushing
HPU/A676	1 to 7	D	15 Apr 11	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Gb Approval
HPU/A732	1 to 7	D	15 Apr 11	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIC T4 Gb Approval
HPU/A743	1 to 5	D	15 Apr 11	Certification Drawing, SB-2 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Gb Approval
HPU/A787	1 to 6	C	15 Apr 11	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d (e) IIB T4 Gb (-50°C to +60°C) Approval

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
HPU-1421	1 of 1	01	05 Jun 14	Label, ATEX data (SI-2.1)
HPU-1431	1 of 1	01	05 Jun 14	Label, ATEX data (SB-2)

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
HPU-A676	1 to 7	E	05 Sep 14	Certification Drawing, SI-2.1 Electro-Hydraulic Power Unit, ATEX Ex d(e) IIB T4 Approval
HPU-A1278	1 of 1	3	24 Sep 14	Certification Drawing, SI-2.1 Power Unit, Long Cover ATEX & IECEx Ex d(e) IIB T4 Gb Approval

Issue 6

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
HPU-A676	7	G	13 Jul 16	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Gb Approval
HPU-A732	7	F	13 Jul 16	Certification Drawing SI-2.1 Electro-Hydraulic Power Unit ATEX Ex d(e) IIC T4 Gb Approval

CSA Group Netherlands B.V.
Utrechseweg 310,
6812 AR, Arnhem,
Netherlands

Certificate Annexe

Certificate Number: **Sira 07ATEX1323X**

Equipment: **SI-2.1 and SB-2 Electro - Hydraulic Power unit**

Applicant: **Rotork Fluid Systems (A Division of Rotork UK Ltd.)**

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
HPU-A743	5	F	13 Jul 16	Certification Drawing SB-2 Electro-Hydraulic Power Unit ATEX Ex d(e) IIB T4 Gb Approval
HPU-1421	1	02	13 Jul 16	Label, ATEX data (SI-2.1)
HPU-1431	1	02	13 Jul 16	Label, ATEX data (SB-2)
HPU-A835	1	B	13 Jul 16	Certification Drawing, Single- Phase Motor – Pump Assembly (SI-2.1)
HPU-A836	1	B	13 Jul 16	Certification Drawing, 24VDC Motor – Pump Assembly (SI-2.1)
HPU-949	1	A	13 Jul 16	Label, Ex d Terminal Cover (SI & SB)
HPU-950	1	A	13 Jul 16	Label, Ex e Terminal Cover (SI & SB)
HPU-A1439	1	02	13 Jul 16	Certification Drawing, 24VDC Motor – Pump Assembly (SI-2.1)
HPU-A1440	1	02	13 Jul 16	Certification Drawing, Single- Phase Motor – Pump Assembly (SI-2.1)

Issue 7 No new drawings were introduced

Issue 8

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
HPU-149	1 of 1	1-0	26 Sep 18	Terminal, Earth
HPU-754	1 of 1	1-0	26 Sep 18	Transmitter, 0-16 Bar Pressure (Gems)
HPU-782	1 of 1	1-0	26 Sep 18	Transducer, Pressure, 0-16 Bar (Variohm)
HPU-787	1 of 1	1-0	26 Sep 18	Line Bush, 2 x 1.5 mm^2- 6 or 8 x 0.5 mm^2 Core (ATEX & FM)
HPU-840	1 of 1	1-0	26 Sep 18	Switch, 0-16 Bar Pressure (Variohm)
HPU-885	1 of 1	1-0	26 Sep 18	SI-PRO, ATEX/IECEx/CSA Window SLX Film Over-mould
HPU-949	1 of 1	1-0	26 Sep 18	Label, SI-PRO Terminal Cover, Ex db
HPU-950	1 of 1	1-0	26 Sep 18	Label, SI-PRO terminal Cover, Ex db eb
HPU-960	1 of 1	1-0	26 Sep 18	Line Bushing ¾ NPT, 2x 1.5 mm^2 & 6 or 8 x 0.5 mm^2 core
HPU-1421	1 of 1	3-0	26 Sep 18	Label, SI-2.1 Data, ATEX Ex db (eb) Only
HPU-1431	1 of 1	3-0	26 Sep 18	Label, SB-2 Data, ATEX Ex db (eb) Only
HPU-A607	1 of 1	1-0	26 Sep 18	Ex – Terminal Bung
HPU-A676	1 to 7	1-0	26 Sep 18	SI-2.1 Power Unit, ATEX Ex db (eb) IIB T4
HPU-A732	1 to 7	2-0	26 Sep 18	SI-2.1 Power Unit, ATEX Ex db (eb) IIC T4
HPU-A739	1 of 1	1-0	26 Sep 18	SI-2.1, ATEX/IECEx/CSA/FM, Solenoid Valve Assy, N/O
HPU-A740	1 of 1	1-0	26 Sep 18	SI-2.1, ATEX/IECEx/CSA/FM, Solenoid Valve Assy, N/O
HPU-A741	1 of 1	1-0	26 Sep 18	SI-2.1, ATEX/IECEx/CSA/FM, Solenoid Valve Plug Assy
HPU-A743	1 to 5	1-0	26 Sep 18	SB-2 Power Unit, ATEX Ex db (eb) IIB T4
HPU-A1278	1 of 1	4-0	26 Sep 18	SI-1 Power Unit, Long Cover
HPU-A1439	1 of 1	3-0	26 Sep 18	SI-2.1, ATEX/IECEx Motor Pump Assembly, 24V
HPU-A1440	1 of 1	3-0	26 Sep 18	SI-2.1, ATEX/IECEx Motor Pump Assembly, Single Phase
RS308	1 to 2	9	26 Sep 18	Potting Procedure for CENELEC and ATEX Term Block/MTR Looms/RHS Loom

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Certificate Annexe

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Drawing	Sheets	Rev.	Date (Sira stamp)	Title
RS448	1 to 2	1	26 Sep 18	Window Bonding Procedure

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