



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 11ATEX1170**

Issue: **6**

Equipment: **LCP9HE, LCP9HEW, LCP9HEL and LCP9HEWL, Local Control Panels**

Applicant: **Metso Flow Control Oy**

Address: Vanha Porvoontie 229
01380 Vantaa
Finland

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

Sira Certification Service, notified body number 0518 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.

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 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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.

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.

The marking of the equipment shall include the following:

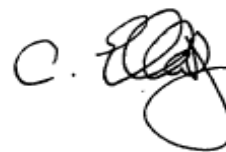


II 2GD

Ex d IIB + H² T6 Gb

Ex tb IIIC T85°C Db IP66

Ta -20°C to +65°C



Project Number 70186892

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The LCP9HE and LCP9HEW Local Control panels are to be used with VG9000H safety valve controllers. The LCP9HE has an Open/Close button to manually drive the valve to a fail-safe position. The LCP9HEW operation is similar but without the Open/Close button.

Both the LCP9HE and LCP9HEW Local Control panels will be used to operate the emergency isolation valve locally by sending requests to the VG9000H controller and receiving information of the current valve status from the controller.

The functions of the LCP9HE are driving the valve to the fail-safe position, resetting the valve to normal operation and testing the valve operation manually. The functions are activated by push-button switches mounted on the LCP enclosure; five LED-indicators show the status of the current function. All buttons can be equipped with button covers to prevent accidental use.

Enclosure fasteners are A2-70 fasteners according to UNI7323, tensile strength of least 700 N/mm².

Rating

	U (Vdc)	I (mA)	P (W)
LCP input parameters (Max.)	25.2	50	1.26
LCP output parameters (Max.)	8.8	42	0.37

Variation 1 - This variation introduced the following changes:

- The colour of one of the LEDs in the enclosure cover was changed from Red to White.
- A second nameplate was allowed to be applied; this nameplate bears information that is not relevant to the Sira certification.

Variation 2 - This variation introduced the following change:

- The company name was changed from Metso Automation Oy to Metso Flow Control Oy.

Variation 3 - This variation introduced the following change:

- The upper ambient limit associated with these devices was increased from +55°C to +65°C, the marking being amended accordingly.

Variation 4 - This variation introduced the following change:

- The ingress protection of the LCP9HE and LCP9HEW Local Control Panels was upgraded from IP65 to IP66, as a result the marking was amended and a Condition of Manufacture was introduced.

Variation 5 - This variation introduced the following change:

- To introduce a variant to the already certified LCP9HE and LCP9HEW control panel model (11-24 VDC, $U_i=25VDC$, $I = 50mA$), referred to as the LCP9HEL and LCP9HEWL ($U_i=30VDC$ and $I=4mA$ looped supply). The only difference being the supply voltage/current.
- A Condition of Manufacture was introduced to ensure the threaded joint between the Command, Control and Signal operators (LED and pushbutton) and the EJB3BA enclosure meet all requirements of the applicable standards.



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Variation 6 - This variation introduced the following change:

- i. The typographical error where 11-20VDC was scripted instead of 11-**24VDC** in Variation 5 of the certificate has been addressed and corrected, clarifying the power supply values for the already certified LCP9HE and LCP9HEW control panel models and certified variants LCP9HEL and LCP9HEWL, these are detailed in the table below.

Control Panel Models	Power Supply
LCP9HE and LCP9HEW	11-24VDC, Ui=25VDC, I=50mA.
LCP9HEL and LCP9HEWL	Ui=30VDC and I=4mA (looped supply)

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	26 September 2011	R24790A/00	The release of the prime certificate.
1	09 February 2015	R70020168A	The introduction of Variation 1.
2	23 March 2015	R70027359A	The introduction of Variation 2.
3	25 September 2015	R70028330A	The introduction of Variation 3.
4	05 December 2016	R70104552A	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. <i>(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.)</i> • The introduction of Variation 4.
5	19 December 2016	R70107278A	The introduction of Variation 5.
6	08 August 2018	R70186892A	The introduction of Variation 6.

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

15.1 None

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.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

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- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

EJB-3BA Enclosure	CESI 01 ATEX 027
M-0429 Push Buttons	CESI 01 ATEX 025U
M-0487 Pilot LED Signal Lights	CESI 00 ATEX 060U

- 17.4 Each device shall be subjected to a routine overpressure test of 11.9 bar. In all cases the pressure shall be maintained for at least 10 seconds as required by clause 16 of EN 60079-1:2007. There shall be no permanent deformation or damage to the enclosure.
- 17.5 The LCP9HEW and LCP9HE Control panels shall be manufactured with the Silicon SI/50 Bluetech sealing gasket suitably installed between the body and cover of the EJB-3BA enclosure to guarantee a degree of protection of IP66.
- 17.6 The final assembler shall ensure the threaded joint between the Command, Control and Signal operators (LED and pushbutton) and the EJB3BA enclosure meet all requirements of the applicable standards listed in Section 9.

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Certificate Annexe

Certificate Number: Sira 11ATEX1170

Equipment: LCP9HE, LCP9HEW, LCP9HEL and LCP9HEWL,
Local Control Panels

Applicant: Metso Flow Control Oy



Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
F32191	1 of 1	B	30 Aug 11	Assembly Drawing with Certificates
F31407	1 of 1	C	30 Aug 11	Identification Plate LCP9HEW
F31406	1 of 1	C	30 Aug 11	Identification Plate LCP9HE
020 EJB3BA	1 of 1	3	30 Aug 11	LCP9HEW Junction Box
004 EJB3BA	1 of 1	3	30 Aug 11	LCP9HE Junction Box

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
020 EJB3BA	1 of 1	6	07 Feb 15	LCP9HEW Junction Box
004 EJB3BA	1 of 1	5	07 Feb 15	LCP9HE Junction Box

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
F31406	1 of 1	C1	20 Mar 15	Identification Plate LCP9HE
F31407	1 of 1	C1	20 Mar 15	Identification Plate LCP9HEW

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
F31406	1 to 1	D	18 Sep 15	Identification Plate LCP9HE
F31407	1 to 1	D	18 Sep 15	Identification Plate LCP9HEW

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
F31404-G	1 to 1	8	24 Nov 16	LCP9HEW Junction Box
F31405-H	1 to 1	10	24 Nov 16	LCP9HE Junction Box
F31406-E	1 to 1	E	24 Nov 16	Identification Plate LCP9HE
F31407-E	1 to 1	E	24 Nov 16	Identification Plate LCP9HEW

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
F77025-0	1 to 1	0	30 Nov 16	Identification Plate LCP9HEL
F78192-0	1 to 1	0	30 Nov 16	Identification Plate LCP9HEWL

Issue 6. No new drawings were introduced

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