



## EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 11ATEX1170** Issue: **8**

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

Applicant: **Neles Finland 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.

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.

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

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 + H<sup>2</sup> T6 Gb

Ex tb IIIC T85°C Db IP66

Ta -20°C to +65°C

Project Number 80038718

Signed: J A May

Title: Director of Operations

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Netherlands



## 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/mm<sup>2</sup>.

#### 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 reased 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, U <sub>i</sub> =25VDC, I=50mA.        |
| LCP9HEL and LCP9HEWL | U <sub>i</sub> =30VDC and I=4mA (looped supply) |

- iii. relevant to the Sira certification.

**Variation 7** - This variation introduced the following change:

- i. Changes to the application name.

## 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: <ul style="list-style-type: none"><li>• 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.)</li><li>• The introduction of Variation 4.</li></ul> |
| 5     | 19 December 2016  | R70107278A    | The introduction of Variation 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6     | 08 August 2018    | R70186892A    | The introduction of Variation 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 7     | 29 October 2019   | 0392          | Transfer of certificate Sira 11ATEX1170 from Sira Certification Service to CSA Group Netherlands B.V.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8     | 21 April 2020     | R80038718A    | The introduction of Variation 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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

### 15.1 None

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**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.

# Certificate Annexe



**Certificate Number:** Sira 11ATEX1170

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

**Applicant:** Neles Finland 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 |

**Issues 6 and 7.** No new drawings were introduced

## Issue 8

| Drawing  | Sheets | Rev. | Date (Sira stamp) | Title                         |
|----------|--------|------|-------------------|-------------------------------|
| F31406 F | 1 to 1 | F    | 15 Apr 20         | Identification Plate LCP9HE   |
| F31407 F | 1 to 1 | F    | 15 Apr 20         | Identification Plate LCP9HEW  |
| F77025 A | 1 to 1 | A    | 15 Apr 20         | Identification Plate LCP9HEL  |
| F78192 A | 1 to 1 | A    | 15 Apr 20         | Identification Plate LCP9HEWL |

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