



**Member State**  
**Switzerland**

**OIML Certificate No.**  
**R076/2006-A-CH1-2019.01 Rev. 7**

## OIML-CS CERTIFICATE ISSUED UNDER SCHEME A

### Issuing authority

|                           |  |
|---------------------------|--|
| <i>Name</i>               | <b>Federal Institute of Metrology METAS</b><br>Conformity Evaluation Body METAS-Cert |
| <i>Address</i>            | Lindenweg 50, 3003 Bern-Wabern, Switzerland  |
| <i>Person responsible</i> | Gulian Couvreur, Head of METAS-Cert  |

### Applicant

|                |   |
|----------------|---|
| <i>Name</i>    | <b>Sartorius Lab Instruments GmbH &amp; Co KG</b> |
| <i>Address</i> | Otto-Brenner-Strasse 20, 37079 Göttingen, Germany |

### Manufacturer

|                |  |
|----------------|--|
| <i>Name</i>    | <b>Sartorius Lab Instruments GmbH &amp; Co. KG</b> |
| <i>Address</i> | 37079 Göttingen, Germany                           |

### Identification of the certified type

|               |  |
|---------------|--|
| <i>Type</i>   | <b>Special and high accuracy balances BC-E, BC-A and BC-Q Line</b>     |
| <i>Module</i> | <b>BC-EA to BC-EH, BC-EK, BC-AA to BC-AH, BC-QA to BC-QE and BC-QG</b> |

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):



**OIML R 76-1, edition 2006**

for accuracy class(es) **I**, **II**

*This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.*

*This OIML Certificate does not bestow any form of legal international approval.*

## Annex to the OIML-CS Certificate No R076/2006-A-CH1-2019.01 Revision 7

### Metrological characteristics

| Type   | BC-EA<br>BC-AA<br>BC-QA | BC-EB<br>BC-AB<br>BC-QB | BC-EB<br>BC-AB  |
|--|-------------------------|-------------------------|-----------------|
| Accuracy Class                                 | I                       | I                       | II              |
| Max  | 50 g - 320 g            | 50 g - 220 g            | 0,1 g - 100 g   |
| e  | 1 mg - 2 mg             | 1 mg - 2 mg             | 1 mg - 2 mg     |
| d  | 0.1 mg - 2 mg           | 0.1 mg - 2 mg           | 0.1 mg - 2 mg   |
| n  | ≤ 320 000               | ≤ 220 000               | ≤ 100 000       |
| Tare-balancing range                           | until 100% of Max       |                         |                 |
| Temperature range 1                            | +17 °C / +27 °C         | +17 °C / +27 °C         | +10 °C / +30 °C |
| Temperature range 2 <sup>1)</sup>              | +10 °C / +30 °C         | +10 °C / +30 °C         | +10 °C / +30 °C |
| Nominal capacity of the load receptor          | 384 g                   | 264 g                   | 264 g           |
| Initial zero setting + dead load <sup>2)</sup> | ≤ 234 g                 | ≤ 214 g                 | ≤ 263 g         |
| Maximum weighing pan size                      | Ø 90 mm                 | Ø 90 mm                 | Ø 90 mm         |

| Type   | BC-EC<br>BC-AC<br>BC-QC | BC-ED<br>BC-AD  |
|--|-------------------------|-----------------|
| Accuracy Class                                 | I                       | II              |
| Max  | 500 g – 1 500 g         | 1 g - 650 g     |
| e  | 10 mg - 20 mg           | 0.01 g – 0.1 g  |
| d  | 1 mg - 20 mg            | 0.001 g – 0.1 g |
| n  | ≤ 150 000               | ≤ 65 000        |
| Tare-balancing range                           | until 100% of Max       |                 |
| Temperature range 1                            | +17 °C / +27 °C         | +10 °C / +30 °C |
| Temperature range 2 <sup>1)</sup>              | +10 °C / +30 °C         | +10 °C / +30 °C |
| Nominal capacity of the load receptor          | 1 800 g                 | 780 g           |
| Initial zero setting + dead load <sup>2)</sup> | ≤ 1300 g                | ≤ 779 g         |
| Maximum weighing pan size                      | Ø 120 mm                | Ø 120 mm        |

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| Type   | <b>BC-EE<br/>BC-AE<br/>BC-QE</b> | <b>BC-EF<br/>BC-AF</b> |
|--|----------------------------------|------------------------|
| Accuracy Class                                 | (II)                             |                        |
| Max  | 500 g - 6 200 g                  | 500 g - 6 200 g        |
| e  | 0.1 g - 1 g                      | 0.1 g - 1 g            |
| d  | 0.01 g - 1 g                     | 0.01 g - 1 g           |
| n  | ≤ 62 000                         | ≤ 62 000               |
| Tare-balancing range                           | until 100% of Max                |                        |
| Temperature range 1                            | +10 °C / +30 °C                  |                        |
| Nominal capacity of the load receptor          | 7 440 g                          | 7 440 g                |
| Initial zero setting + dead load <sup>2)</sup> | 6 940 g                          | 6 940 g                |
| Maximum weighing pan size                      | 180 mm x 180 mm                  | Ø 180 mm               |

| Type   | <b>BC-EG<br/>BC-AG<br/>BC-QG</b> | <b>BC-EH<br/>BC-AH</b> |
|--|----------------------------------|------------------------|
| Accuracy Class                                 | (II)                             |                        |
| Max  | 5 000 g - 12 200 g               | 5 000 g - 12 200 g     |
| e  | 1 g                              | 1 g                    |
| d  | 0.1 g - 1 g                      | 0.1 g - 1 g            |
| n  | ≤ 12 200                         | ≤ 12 200               |
| Tare-balancing range                           | until 100% of Max                |                        |
| Temperature range                              | +10 °C / +30 °C                  |                        |
| Nominal capacity of the load receptor          | 14 640 g                         | 14 640 g               |
| Initial zero setting + dead load <sup>2)</sup> | ≤ 9 640 g                        | ≤ 9 640 g              |
| Maximum weighing pan size                      | 180 mm x 180 mm                  | Ø 180 mm               |

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| Type   | BC-EK             | BC-QD           |
|--|-------------------|-----------------|
| Accuracy Class                                 | Ⓢ                 | Ⓢ               |
| Max  | 50 g – 95 g       | 1 g – 620 g     |
| e  | 1 mg              | 0.01 g – 0.1 g  |
| d  | 0.01 mg - 1 mg    | 0.001 g – 0.1 g |
| n  | ≤ 95 000          | ≤ 62 000        |
| Tare-balancing range                           | until 100% of Max |                 |
| Temperature range 1                            | +17 °C / +27 °C   | +10 °C / +30 °C |
| Temperature range 2 <sup>1)</sup>              | +10 °C / +30 °C   | +10 °C / +30 °C |
| Nominal capacity of the load receptor          | 114 g             | 744 g           |
| Initial zero setting + dead load <sup>2)</sup> | ≤ 64 g            | ≤ 743 g         |
| Maximum weighing pan size                      | Ø 90 mm           | Ø 120 mm        |

<sup>1)</sup> Only for weighing instruments with incorporated span adjustment device being automatically released.

<sup>2)</sup> The sum of Max, initial zero setting range and dead load shall not exceed the nominal load of the load receptor.

*The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation reports:*

| <b>No.</b>        | <b>Date</b> | <b>Including pages</b> |
|-------------------|-------------|------------------------|
| 6030-01189 Rev 07 | 2024-07-18  | 28                     |

*The technical documentation relating to the identified type is contained in documentation file:*

| <b>Name</b>                         | <b>Date</b> | <b>Including pages</b> |
|-------------------------------------|-------------|------------------------|
| R076_2006-A-CH1-2019.01-07_LERD_V01 | 2024-07-18  | 8                      |

## Annex to the OIML-CS Certificate No R076/2006-A-CH1-2019.01 Revision 7

### *OIML Certificate History:*

| Revision No. | Date       | Description of the modification  |
|--------------|------------|--|
| 00           | 2019-09-24 | First issue  |
| 01           | 2020-09-21 | Extension to the types BC-EA to BC-EH, BC-AA to BC-AH  |
| 02           | 2020-11-03 | Editorial changes  |
| 03           | 2021-04-15 | Rebranding, new design   |
| 04           | 2021-08-12 | Extension to the type BC-EK, version of software   |
| 05           | 2022-06-16 | Version of software added, reinforcement of power connector (only in documentation)  |
| 06           | 2024-06-24 | Extension to the types BC-QA, BC-QB, BC-QC, BC-QD, BC-QE, BC-QG.<br>Optimized weighing system of the types BC-AA, BC-AB, BC-EA, BC-EB. |
| 07           | 2024-07-18 | Editorial changes  |

### **The OIML Issuing Authority CH1**

3003 Bern-Wabern, 2024-07-18

*Approved by*

Gulian Couvreur, Head of sector  
METAS-Cert



*Important note:*

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