



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX INE 21.0034X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-10-13  
Applicant: **Delvalle Global Solutions, S.L.U.**  
Paso El Prao, 6. 01320, Oyón. Alava  
Spain  
Equipment: **Enclosures type EJB**  
Optional accessory:  
Type of Protection: **db, db [ia], tb, tb [ia]**  
Marking: Ex db IIB or IIB+H2 or (H2) T6...T3 Gb  
Ex db [ia Ga] IIB or IIB+H2 or (H2) T6...T3 Gb  
Ex tb IIIC T85°C...T200°C Db  
Ex tb [ia Da] IIIC T85°C...T200°C Db

Approved for issue on behalf of the IECEX  
Certification Body:

Position:

Signature:  
(for printed version)

Date:

Thierry HOUEIX

Ex Certification Officer



Digitally signed by  
Thierry HOUEIX

2021-10-13

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F-60550 Verneuil-en-Halatte  
France



controlling risks |  
for sustainable development



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Manufacturer: **Delvalle Global Solutions, S.L.U.**  
Paso El Prao, 6. 01320, Oyón. Alava  
Spain

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR21.0034/00](#)

Quality Assessment Report:

[ES/LOM/QAR16.0002/03](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Enclosures made in aluminium light alloy and covered by an Ex component certificate IECEX INE 14.0056U. They can be provided with a glass window.

These enclosures are intended to contain mainly electrical and/or electrical "NIS" components, they can also contain "IS" elements covered by a separated certificate. The versions containing intrinsic safety associated apparatus have to respect power limits reported in table, otherwise the enclosure shall be equipped with an internal thermal probe.

Enclosures could be fitted with accessories, command and signalling units covered by the certificates IECEX INE 14.0023U and draining and breathing devices & bulkheads covered by the certificates IECEX INE 14.0045U.

These enclosures get the degree of protection IP66 or IP65 or IP64 in accordance with IEC 60529, but the final marking should be in accordance with the minimum degrees of protection of accessories mounted on the enclosures.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The dimensions of flameproof joints are different from the values specified in the tables of the IEC 60079-1 standard. For any repair, contact the manufacturer.
- The stainless steel screws used for the assembly of the various parts of explosion-proof enclosures must have minimum yield stress: 450 N/mm<sup>2</sup> (typical grade A2-70).

## **Annex:**

[IECEX INE 21.0034X-00\\_Annex.pdf](#)





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## PARAMETERS RELATING TO THE SAFETY

Enclosures are intended to be used in range of ambient temperatures:

| Enclosure size                             | Minimum Temperature | Maximum Temperature                 | Gas Group                 |
|--|---------------------|-------------------------------------|---------------------------|
| All except EJB926733, EJB926739, EJB926745 | -20°C or -50°C      | +40°C or +50°C<br>or +55°C or +60°C | IIB or IIB+H <sub>2</sub> |
| Only EJB926733, EJB926739, EJB926745       | -20°C or -40°C      |                                     | IIB or IIB+H <sub>2</sub> |
| Only EJB926733, EJB926739, EJB926745       | -50°C               |                                     | (H <sub>2</sub> )         |

For enclosure without intrinsic safety element:

Maximum supply voltage: 1000 Vac or Vdc

Maximum dissipated powers are defined in the Table 1.

For enclosure with intrinsic safety element:

The minimum ambient temperature must be in accordance with the "IS" elements installed inside the enclosures (barriers, terminals...).

Maximum supply voltage for Non 'IS' elements: 1000 Vac or Vdc

Maximum supply voltage for "IS" elements: 250 V

Maximum dissipated powers are defined in the Table 2 for enclosures without thermal probes and in the Table 1 for enclosures with thermal probes.

The maximum threshold of thermal probe shall be: (maximum barrier's temperature - 5°C) ±5°C

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

For enclosure without intrinsic safety element:

- DELVALLE
- SPAIN – 01320 Oyón
- EJB...<sup>(1)</sup>
- IECEX INE 21.0034X
- (Serial number)
- Ex db IIB or IIB+H<sub>2</sub> or (H<sub>2</sub>) T6...T3 Gb
- Ex tb IIIC T85°C...T200°C Db
- IP<sup>(2)</sup>
- ...°C < Tamb < ...°C<sup>(3)</sup>
- Tcable :<sup>(4)</sup>
- WARNING :  
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT  
DO NOT OPEN WHEN ENERGIZED<sup>(5)</sup>

(1) The type is completed by numbers and/or letters in accordance with the manufacturing variations.

(2) IP66 or IP65 or IP64

(3) See parameters relating to safety

(4) See tables below

(5) If there is a switchgear inside the enclosure



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## For enclosure with intrinsic safety element:

- DELVALLE
- SPAIN – 01320 Oyón
- EJB...<sup>(1)</sup>
- IECEx INE 21.0034X
- (Serial number)
- Ex db [ia IIB or IIC Ga] IIB or IIB+H<sub>2</sub> or (H<sub>2</sub>) T6...T3 Gb
- Ex tb [ia Da] IIC T85°C...T200°C Db
- IP<sup>(2)</sup>
- ...°C < Tamb < ...°C<sup>(3)</sup>
- Tcable<sup>(4)</sup>
- WARNING :  
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT  
DO NOT OPEN WHEN ENERGIZED<sup>(5)</sup>

(1) The type is completed by numbers and/or letters in accordance with the manufacturing variations.

(2) IP66 or IP65 or IP64

(3) See parameters relating to safety

(4) See tables below

(5) If there is a switchgear inside the enclosure

## ROUTINE EXAMINATIONS AND TESTS

None: covered by the Ex Component Certificates of the enclosures and accessories





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**Table 1: Maximum dissipated power for enclosures with window and/or with IS element protected by thermal probes**

| Temperature class<br>Tamb (°C) | T6/T85°C |     |     |     | T5/T100°C |     |     |     | T4/T135°C |      |      |     | T3/T200°C |      |      |      |
|--------------------------------|----------|-----|-----|-----|-----------|-----|-----|-----|-----------|------|------|-----|-----------|------|------|------|
|                                | 40       | 50  | 55  | 60  | 40        | 50  | 55  | 60  | 40        | 50   | 55   | 60  | 40        | 50   | 55   | 60   |
| EJB151512                      | 23       | 17  | 13  | 10  | 33        | 27  | 23  | 20  | 57        | 50   | 47   | 43  | 90        | 83   | 80   | 77   |
| EJB201512                      | 31       | 22  | 18  | 13  | 44        | 35  | 31  | 26  | 75        | 66   | 62   | 57  | 119       | 110  | 106  | 101  |
| EJB201514                      | 35       | 25  | 20  | 15  | 50        | 40  | 35  | 30  | 86        | 76   | 71   | 66  | 136       | 126  | 121  | 116  |
| EJB252015                      | 57       | 41  | 33  | 24  | 82        | 65  | 57  | 49  | 139       | 122  | 114  | 106 | 220       | 204  | 196  | 188  |
| EJB302515                      | 70       | 50  | 40  | 30  | 100       | 80  | 70  | 60  | 170       | 150  | 140  | 130 | 270       | 250  | 240  | 230  |
| EJB352520                      | 91       | 65  | 52  | 39  | 130       | 104 | 91  | 78  | 221       | 195  | 182  | 169 | 351       | 325  | 312  | 299  |
| EJB352515                      | 51       | 37  | 28  | 18  | 74        | 55  | 51  | 42  | 125       | 111  | 102  | 92  | 199       | 139  | 134  | 129  |
| EJB302520                      | 66       | 48  | 36  | 24  | 96        | 72  | 66  | 54  | 161       | 143  | 132  | 120 | 257       | 179  | 173  | 167  |
| EJB403020                      | 81       | 59  | 44  | 30  | 118       | 89  | 81  | 66  | 199       | 177  | 163  | 148 | 318       | 222  | 214  | 207  |
| EJB403025                      | 99       | 72  | 54  | 36  | 144       | 108 | 99  | 81  | 243       | 216  | 198  | 180 | 387       | 270  | 261  | 252  |
| EJB453020                      | 90       | 66  | 49  | 33  | 131       | 99  | 90  | 74  | 222       | 197  | 181  | 164 | 353       | 246  | 238  | 230  |
| EJB453025                      | 110      | 80  | 60  | 40  | 160       | 120 | 110 | 90  | 269       | 239  | 219  | 199 | 429       | 299  | 289  | 279  |
| EJB504020                      | 112      | 82  | 61  | 41  | 164       | 123 | 112 | 92  | 276       | 245  | 225  | 205 | 440       | 307  | 297  | 286  |
| EJB504025                      | 136      | 99  | 74  | 49  | 198       | 148 | 136 | 111 | 334       | 297  | 272  | 247 | 532       | 371  | 359  | 346  |
| EJB553520                      | 110      | 80  | 60  | 40  | 160       | 120 | 110 | 90  | 270       | 240  | 220  | 200 | 430       | 300  | 290  | 280  |
| EJB553525                      | 146      | 105 | 82  | 64  | 210       | 169 | 146 | 129 | 351       | 310  | 292  | 269 | 555       | 514  | 497  | 473  |
| EJB604020                      | 139      | 100 | 78  | 61  | 201       | 162 | 139 | 123 | 335       | 296  | 279  | 257 | 530       | 491  | 474  | 452  |
| EJB604025                      | 169      | 121 | 94  | 74  | 243       | 196 | 169 | 148 | 405       | 358  | 337  | 310 | 641       | 594  | 574  | 547  |
| EJB654520                      | 167      | 120 | 93  | 73  | 240       | 194 | 167 | 147 | 401       | 354  | 334  | 307 | 634       | 588  | 568  | 541  |
| EJB654525                      | 200      | 144 | 112 | 88  | 288       | 232 | 200 | 176 | 480       | 424  | 400  | 368 | 760       | 704  | 680  | 648  |
| EJB654530                      | 233      | 168 | 130 | 103 | 335       | 270 | 233 | 205 | 559       | 494  | 466  | 429 | 885       | 820  | 792  | 755  |
| EJB705025                      | 220      | 159 | 123 | 97  | 317       | 256 | 220 | 194 | 529       | 467  | 441  | 405 | 837       | 775  | 749  | 714  |
| EJB705030                      | 256      | 184 | 143 | 113 | 368       | 297 | 256 | 225 | 614       | 542  | 512  | 471 | 972       | 900  | 870  | 829  |
| EJB705035                      | 291      | 210 | 163 | 128 | 419       | 338 | 291 | 256 | 699       | 618  | 583  | 536 | 1107      | 1025 | 990  | 944  |
| EJB755525                      | 250      | 180 | 140 | 110 | 360       | 290 | 250 | 220 | 600       | 530  | 500  | 460 | 950       | 880  | 850  | 810  |
| EJB755530                      | 289      | 208 | 162 | 127 | 416       | 335 | 289 | 254 | 694       | 613  | 578  | 532 | 1099      | 1018 | 983  | 937  |
| EJB755535                      | 328      | 236 | 184 | 144 | 473       | 381 | 328 | 289 | 788       | 696  | 657  | 604 | 1247      | 1156 | 1116 | 1064 |
| EJB602014                      | 72       | 52  | 40  | 32  | 103       | 83  | 72  | 63  | 172       | 152  | 144  | 132 | 273       | 253  | 244  | 233  |
| EJB752217                      | 111      | 80  | 62  | 49  | 160       | 129 | 111 | 98  | 267       | 236  | 222  | 205 | 422       | 391  | 378  | 360  |
| EJB926733                      | 402      | 290 | 225 | 177 | 579       | 467 | 402 | 354 | 965       | 853  | 804  | 740 | 1528      | 1416 | 1368 | 1303 |
| EJB926739                      | 461      | 332 | 258 | 203 | 664       | 535 | 461 | 406 | 1107      | 978  | 923  | 849 | 1753      | 1624 | 1569 | 1495 |
| EJB926745                      | 521      | 375 | 291 | 229 | 750       | 604 | 521 | 458 | 1249      | 1103 | 1041 | 958 | 1978      | 1832 | 1770 | 1686 |
| EJB454547                      | 142      | 103 | 80  | 63  | 205       | 165 | 142 | 125 | 342       | 302  | 285  | 262 | 541       | 501  | 484  | 462  |
| EJB151512                      | 194      | 140 | 109 | 86  | 280       | 226 | 194 | 171 | 467       | 412  | 389  | 358 | 739       | 685  | 661  | 630  |
| EJB201512                      | 257      | 185 | 144 | 113 | 370       | 298 | 257 | 226 | 616       | 545  | 514  | 473 | 976       | 904  | 873  | 832  |
| Tcable                         | 80       |     |     |     | 95        |     |     |     | 130       |      |      |     | 175       |      |      |      |



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**Table 2: Maximum dissipated power for enclosures with IS element without thermal probes**

| Ambient temperature of the enclosure:<br>Maximum ambient temperature of IS barriers | 40°C |      |      | 50°C |      | 55°C |      | 60°C |
|---|------|------|------|------|------|------|------|------|
|   | 60°C | 70°C | 80°C | 70°C | 80°C | 70°C | 80°C | 80°C |
| EJB151512   | 7    | 10   | 17   | 7    | 10   | 3    | 7    | 7    |
| EJB201512   | 9    | 13   | 22   | 9    | 13   | 4    | 9    | 9    |
| EJB201514   | 10   | 15   | 25   | 10   | 15   | 5    | 10   | 10   |
| EJB252015   | 16   | 24   | 41   | 16   | 24   | 8    | 16   | 16   |
| EJB302515   | 20   | 30   | 50   | 20   | 30   | 10   | 20   | 20   |
| EJB352520   | 26   | 39   | 65   | 26   | 39   | 13   | 26   | 26   |
| EJB352515   | 14   | 28   | 42   | 14   | 28   | 9    | 23   | 14   |
| EJB302520   | 18   | 36   | 54   | 18   | 36   | 12   | 30   | 18   |
| EJB403020   | 22   | 44   | 66   | 22   | 44   | 15   | 37   | 22   |
| EJB403025   | 27   | 54   | 81   | 27   | 54   | 18   | 45   | 27   |
| EJB453020   | 25   | 49   | 74   | 25   | 49   | 16   | 41   | 25   |
| EJB453025   | 30   | 60   | 90   | 30   | 60   | 20   | 50   | 30   |
| EJB504020   | 31   | 61   | 92   | 31   | 61   | 20   | 51   | 31   |
| EJB504025   | 37   | 74   | 111  | 37   | 74   | 25   | 62   | 37   |
| EJB553520   | 30   | 60   | 90   | 30   | 60   | 20   | 50   | 30   |
| EJB553525   | 47   | 82   | 111  | 47   | 82   | 29   | 64   | 47   |
| EJB604020   | 45   | 78   | 106  | 45   | 78   | 28   | 61   | 45   |
| EJB604025   | 54   | 94   | 128  | 54   | 94   | 34   | 74   | 54   |
| EJB654520   | 53   | 93   | 127  | 53   | 93   | 33   | 73   | 53   |
| EJB654525   | 64   | 112  | 152  | 64   | 112  | 40   | 88   | 64   |
| EJB654530   | 75   | 130  | 177  | 75   | 130  | 47   | 103  | 75   |
| EJB705025   | 70   | 123  | 167  | 70   | 123  | 44   | 97   | 70   |
| EJB705030   | 82   | 143  | 194  | 82   | 143  | 51   | 113  | 82   |
| EJB705035   | 93   | 163  | 221  | 93   | 163  | 58   | 128  | 93   |
| EJB755525   | 80   | 140  | 190  | 80   | 140  | 50   | 110  | 80   |
| EJB755530   | 93   | 162  | 220  | 93   | 162  | 58   | 127  | 93   |
| EJB755535   | 105  | 184  | 249  | 105  | 184  | 66   | 144  | 105  |
| EJB602014   | 23   | 40   | 55   | 23   | 40   | 14   | 32   | 23   |
| EJB752217   | 36   | 62   | 84   | 36   | 62   | 22   | 49   | 36   |
| EJB926733   | 129  | 225  | 306  | 129  | 225  | 80   | 177  | 129  |
| EJB926739   | 148  | 258  | 351  | 148  | 258  | 92   | 203  | 148  |
| EJB926745   | 167  | 291  | 396  | 167  | 291  | 104  | 229  | 167  |
| EJB454547   | 46   | 80   | 108  | 46   | 80   | 28   | 63   | 46   |
| EJB151512   | 62   | 109  | 148  | 62   | 109  | 39   | 86   | 62   |
| EJB201512   | 82   | 144  | 195  | 82   | 144  | 51   | 113  | 82   |