

|   |          |        |
|---|----------|--------|
| We herewith certify that the material described herein has been made in accordance to the above specification and also with the requirement called for above order. |          |        |
| Approved by   | Date     | Page   |
| <i>Eddy Wang</i>  | 2024/6/4 | 2 of 2 |

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## acc. to. EN10204 3.1

Certificate No. 0343/PED/0038/PED/SHA/TW/N00000225/A

|                                       |                               |      |            |             |   |                      |                 |        |
|---------------------------------------|-------------------------------|------|------------|-------------|---|----------------------|-----------------|--------|
| Customer                              | VENTIM VENTIL & INSTRUMENT AB |      |            | Invoice No. | D240626J254   | Report No.:          | 2024D240626J254 |        |
| Order No.                             | 756875                        |      |            | P/I No.     | D240418XA   |                      |                 |        |
| Item No.                              | Pressure Rating               | Size | Q'ty (pcs) |             | LONG BW END CAP SERIES 355,<br>1.4408 END CAP FOR SERIES 355, LONG BUTTWELD END<br>S/C No D240418XA Customer PO No 756875 |                      |                 |        |
| 31                                    | N/A                           | DN25 | 30         |             |   |                      |                 |        |
| Pressure Test according to EN 12266-1 |                               |      | Pressure   | Duration    |   |                      |                 | Result |
| Shell Strength Test (P10)             | Water                         | N/A  | N/A        | N/A         |   |                      |                 |        |
| Shell Tightness Test (P11)            | Water                         | N/A  | N/A        | N/A         |   |                      |                 |        |
| Seat Tightness Test (P12)             | Air                           | N/A  | N/A        | N/A         | <input checked="" type="checkbox"/> Solution at 1080 °C then Quenched by Water, 2hr                                       |                      |                 |        |
| Pressure Test according to API 598    |                               |      | Pressure   | Duration    | Result  | Product Inspection : |                 |        |
| Shell Test                            | Water                         | N/A  | N/A        | N/A         | <input checked="" type="checkbox"/> Dimension Inspection  |                      |                 |        |
| BackSeat Test                         | Water                         | N/A  | N/A        | N/A         | <input checked="" type="checkbox"/> Visual Inspection   |                      |                 |        |
| High-Pressure Closure Test            | Water                         | N/A  | N/A        | N/A         | <input checked="" type="checkbox"/> Performance Check   |                      |                 |        |
| Low-Pressure Closure Test             | Air                           | N/A  | N/A        | N/A         | <input type="checkbox"/> Non-Destructive Examination  |                      |                 |        |
|                                       |                               |      |            |             |   |                      | Result          |        |
|                                       |                               |      |            |             |   |                      | PASS            |        |
|                                       |                               |      |            |             |   |                      | PASS            |        |
|                                       |                               |      |            |             |   |                      | PASS            |        |
|                                       |                               |      |            |             |   |                      | NA              |        |

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# Inspection Certificate

acc. to. EN10204 3.1

Certificate No. 0343/PED/0038/PED/SHA/TWNN0000025/A

|                                       |                               |          |            |             |  |             |                 |
|---------------------------------------|-------------------------------|----------|------------|-------------|--|-------------|-----------------|
| Customer                              | VENTIM VENTIL & INSTRUMENT AB |          |            | Invoice No. | D2501151259  | Report No.: | 2025D2501151259 |
| Order No.                             | 758171                        |          |            | P/I No.     | D241106XA  |             |                 |
| Item No.                              | Pressure Rating               | Size     | Q'ty (pcs) |             | MODEL: SERIES 32-B-W/(FORMERLY ED-311MF),1.4408 3PC BALL VALVE FULL PORT,<br>PTFE SEATS, W/ISO 5211 MOUNTING PAD,HANDLE W/LOCKING DEVICE.<br>1000WOG, SS316L BUTTWELD END CAPS,H.S CODE: 8481.80.81.90<br>S/C No D241106XA Customer PO No 758171 |             |                 |
| 29                                    | 1000 psi                      | DN32     | 20         |             |  |             |                 |
| Pressure Test according to EN 12266-1 |                               | Pressure | Duration   | Result      |  |             |                 |
| Shell Strength Test (P10)             | Water                         | 1500 psi | 15 sec     | PASS        |  |             |                 |
| Shell Tightness Test (P11)            | Water                         | 1500 psi | 15 sec     | PASS        |  |             |                 |
| Seat Tightness Test (P12)             | Air                           | 80 psi   | 15 sec     | PASS        | Heat Treatment   |             |                 |
| Pressure Test according to API 598    |                               | Pressure | Duration   | Result      | Product Inspection :   |             |                 |
| Shell Test                            | Water                         | 1500 psi | 15 sec     | PASS        | <input checked="" type="checkbox"/> Dimension Inspection   |             |                 |
| BackSeat Test                         | Water                         | N/A      | N/A        | N/A         | <input checked="" type="checkbox"/> Visual Inspection  |             |                 |
| High-Pressure Closure Test            | Water                         | N/A      | N/A        | N/A         | <input checked="" type="checkbox"/> Performance Check  |             |                 |
| Low-Pressure Closure Test             | Air                           | 80 psi   | 15 sec     | PASS        | <input type="checkbox"/> Non-Destructive Examination   |             |                 |
|                                       |                               |          |            | Result      |  |             |                 |
|                                       |                               |          |            | PASS        |  |             |                 |
|                                       |                               |          |            | PASS        |  |             |                 |
|                                       |                               |          |            | PASS        |  |             |                 |
|                                       |                               |          |            | NA          |  |             |                 |

| Article.        | Heat No.    | Chemical Components(%) |       |       |        |        |       |        |       |       |       | Mechanical Properties                    |                         |                 |                |                      |
|-----------------|-------------|------------------------|-------|-------|--------|--------|-------|--------|-------|-------|-------|--|-------------------------|-----------------|----------------|----------------------|
|                 |             | C                      | Si    | Mn    | P      | S      | Ni    | Cr     | Mo    | Cu    | N     | Yield Strength<br>Mpa<br>Rp 0.2   Rp 1.0 | Tensile Strength<br>Mpa | Elongation<br>% | Hardness<br>HB | Impact Test<br>Joule |
| EN 10213 1.4408 | Max. / Min. | ≤0.07                  | ≤1.5  | ≤1.5  | ≤0.04  | ≤0.03  | 9~12  | 18~20  | 2~2.5 | ≤0.5  | ≤0.2  | ≥210                                     | 440~640                 | ≥30             |                | ≥60                  |
| BODY            | HNJ809      | 0.034                  | 0.843 | 1.121 | 0.026  | 0.0054 | 9.425 | 18.21  | 2.301 | 0.193 |       | 242                                      | 540                     | 40              |                | 110                  |
|                 |             |                        |       |       |        |        |       |        |       |       |       |  |                         |                 |                |                      |
| Article.        | Heat No.    | Chemical Components(%) |       |       |        |        |       |        |       |       |       | Mechanical Properties                    |                         |                 |                |                      |
|                 |             | C                      | Si    | Mn    | P      | S      | Ni    | Cr     | Mo    | Cu    | N     | Yield Strength<br>Mpa<br>Rp 0.2   Rp 1.0 | Tensile Strength<br>Mpa | Elongation<br>% | Hardness<br>HB | Impact Test<br>Joule |
| 1.4409          | Max. / Min. | ≤0.03                  | ≤1.50 | ≤2.00 | ≤0.035 | ≤0.025 | 9-12  | 18-20  | 2-2.5 | ≤0.5  | ≤0.2  | ≥220                                     | 440-640                 | ≥30             |                | ≥80                  |
| CAP             | HNJ917      | 0.024                  | 0.946 | 1.108 | 0.026  | 0.0052 | 9.753 | 18.25  | 2.432 | 0.258 | 0.043 | 239                                      | 540                     | 39              |                | 111                  |
| CAP             | LNJ905      | 0.013                  | 0.911 | 1.178 | 0.026  | 0.005  | 9.565 | 18.757 | 2.302 | 0.178 | 0.056 | 266                                      | 539                     | 53              |                | 111.1                |
|                 |             |                        |       |       |        |        |       |        |       |       |       |  |                         |                 |                |                      |
|                 |             |                        |       |       |        |        |       |        |       |       |       |  |                         |                 |                |                      |
|                 |             |                        |       |       |        |        |       |        |       |       |       |  |                         |                 |                |                      |

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|------------------|-----------|----------|
| Approved by      | Date      | Page     |
| <i>Eddy Wong</i> | 2025/1/21 | 29 of 38 |

|   |                      |           |        |
|---|----------------------|-----------|--------|
| We herewith certify that the material described herein has been made in accordance to the above specification and also with the requirement called for above order. | Approved by          | Date      | Page   |
|   | <i>Enikay Mlayoy</i> | 2025/4/24 | 2 of 4 |



## acc. to. EN10204 3.1

Certificate No. 0343/PED/0038/PED/SHA/TWNN00000225/A

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| Approved by       | Date      | Page   |
| <i>Eddy Stone</i> | 2025/4/24 | 3 of 4 |

## acc. to. EN10204 3.1

Certificate No. 0343/PED/0038/PED/SHA/TWNN00000225/A

|                                       |                               |             |            |           |   |  |               |
|---------------------------------------|-------------------------------|-------------|------------|-----------|---|--|---------------|
| Customer                              | VENTIM VENTIL & INSTRUMENT AB | Invoice No. |            | D250424X1 | Report No.:   |  | 2025D250424X1 |
| Order No.                             | 758363                        | P/I No.     |            | D241203XA |   |  |               |
| Item No.                              | Pressure Rating               | Size        | Q'ty (pcs) |           | CENTER BODY SERIES 355 (SP),SERIES 355 (FIRE-SAFE),CENTER SECTION ONLY!(NO END CAPS)  |  |               |
| 4                                     | N/A                           | DN50        | 32         |           |   |  |               |
| Pressure Test according to EN 12266-1 |                               | Pressure    | Duration   | Result    | 3-PC 1.4408 BALL VALVE FULL PORT,SS316 BALL & ANTI-STATIC STEM, WITH LABYRINTH STEM SEALINGS,WITH ISO 5211 DIRECT MOUNTING PAD, WITH SEAT PTFE +25% CARBON,WITH BOLTS & LOCKABLE HANDLE |  |               |
| Shell Strength Test (P10)             | Water                         | N/A         | N/A        | N/A       | ★API 607 7TH CERT. FIRE-SAFE DESIGN ★GRAPHITE BODY SEAL & SS316 GASKET,H.S CODE: 8481.90.00.90  |  |               |
| Shell Tightness Test (P11)            | Water                         | N/A         | N/A        | N/A       | S/C No D241203XA Customer PO No 758363  |  |               |
| Seat Tightness Test (P12)             | Air                           | N/A         | N/A        | N/A       | Heat Treatment  |  |               |
| Pressure Test according to API 598    |                               | Pressure    | Duration   | Result    | ✓Solution at 1080 °C then Quenched by Water, 2hr  |  |               |
| Shell Test                            | Water                         | N/A         | N/A        | N/A       | Product Inspection :  |  |               |
| BackSeat Test                         | Water                         | N/A         | N/A        | N/A       | <input checked="" type="checkbox"/> Dimension Inspection<br><input checked="" type="checkbox"/> Visual Inspection   |  |               |
| High-Pressure Closure Test            | Water                         | N/A         | N/A        | N/A       | <input checked="" type="checkbox"/> Performance Check   |  |               |
| Low-Pressure Closure Test             | Air                           | N/A         | N/A        | N/A       | <input type="checkbox"/> Non-Destructive Examination  |  |               |
|                                       |                               |             |            |           | Result  |  |               |
|                                       |                               |             |            |           | PASS  |  |               |
|                                       |                               |             |            |           | PASS  |  |               |
|                                       |                               |             |            |           | PASS  |  |               |
|                                       |                               |             |            |           | NA  |  |               |

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Approved by

Date \_\_\_\_\_

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2025/4/24

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PED-001-004-1(B)

| Place  | Taichung Taiwan |           |              | Date         | Inspector        | Bibby      |          |               |
|--------|-----------------|-----------|--------------|--------------|------------------|------------|----------|---------------|
| Nr./No | °C              | Test Temp | Proof stress | Proof stress | Tensile strength | Elongation | Hardness | Charpy Impact |
| 6Z84   | 341             | 440-640   | 44           | 147          | 178              | 175        | 194      | 182           |
| 6Z85   | 349             | 48        | 145          | 175          | 186              | 175        | 194      | 179           |
| 6V82   | 357             | 45        | 147          | 175          | 194              | 186        | 186      | 185           |
| 6Z86   | 371             | 49        | 145          | 202          | 186              | 202        | 202      | 197           |
| 6V82   | 357             | 45        | 147          | 175          | 194              | 186        | 186      | 185           |
| 6Z87   | 357             | 47        | 146          | 178          | 199              | 183        | 183      | 187           |
| 6Z88   | 348             | 42        | 147          | 181          | 175              | 186        | 186      | 181           |
| 6T92   | 351             | 40        | 145          | 202          | 186              | 197        | 197      | 195           |
| 6V82   | 357             | 45        | 147          | 175          | 194              | 186        | 186      | 185           |
| 6Z89   | 332             | 50        | 147          | 181          | 175              | 194        | 194      | 183           |

B)Mechanische Prüfung: Zugprüfung / Tensile Test Härte / Hardness

| Schmelze Nr. | C %   | Si %  | Mn %  | P %   | S %   | NI %  | Cr %   | Mo %    | Cu %  | V % | N % |
|--------------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-----|-----|
| Heat No.     | ≤0.07 | ≤1.50 | ≤1.50 | ≤0.04 | ≤0.03 | 9-12  | 18-20  | 2.0-2.5 | ≤0.5  | -   | -   |
| 6Z84         | 0.026 | 0.873 | 0.928 | 0.031 | 0.005 | 9.715 | 18.173 | 2.279   | 0.155 |     |     |
| 6Z85         | 0.026 | 0.844 | 0.933 | 0.029 | 0.004 | 9.715 | 18.173 | 2.279   | 0.155 |     |     |
| 6V82         | 0.026 | 0.846 | 0.823 | 0.031 | 0.010 | 9.245 | 18.675 | 2.184   | 0.105 |     |     |
| 6Z86         | 0.029 | 0.744 | 0.795 | 0.028 | 0.004 | 9.784 | 18.155 | 2.277   | 0.128 |     |     |
| 6V82         | 0.026 | 0.846 | 0.823 | 0.031 | 0.010 | 9.245 | 18.675 | 2.184   | 0.105 |     |     |
| 6Z87         | 0.028 | 0.851 | 0.769 | 0.029 | 0.007 | 9.704 | 18.376 | 2.218   | 0.146 |     |     |
| 6Z88         | 0.046 | 0.675 | 0.782 | 0.037 | 0.010 | 9.534 | 18.451 | 2.315   | 0.203 |     |     |
| 6T92         | 0.026 | 0.874 | 0.935 | 0.025 | 0.008 | 9.708 | 18.565 | 2.159   | 0.114 |     |     |
| 6V82         | 0.026 | 0.846 | 0.823 | 0.031 | 0.010 | 9.245 | 18.675 | 2.184   | 0.105 |     |     |
| 6Z89         | 0.026 | 0.864 | 0.859 | 0.025 | 0.008 | 9.688 | 18.454 | 2.150   | 0.114 |     |     |

A) Chemische Analyse /Chemical Analysis

| Item No. | Heat No. | Article | Size | Quantity |
|----------|----------|---------|------|----------|
| 1        | 6Z84     | DN 15   | 100  | 100      |
| 2        | 6Z85     | DN 20   | 100  | 100      |
| 3        | 6V82     | DN 25   | 28   | 72       |
| 4        | 6Z86     | DN 25   | 6    | 72       |
| 5        | 6V82     | DN 32   | 6    | 94       |
| 6        | 6Z87     | DN 32   | 100  | 100      |
| 7        | 6Z88     | DN 40   | 40   | 6        |
| 8        | 6T92     | DN 50   | 54   | 54       |
| 9        | 6V82     | DN 50   | 6    | 6        |
| 10       | 6Z89     | DN 50   | 54   | 54       |

Umfang der Lieferung (Detail of Casting Pieces)

Article : 'SERIES 35S END CAP(LONG BW)1.4408 END CAP FOR SERIES 35S, LONG BUTTWELD END.  
S/C NO.170708XA, Customer P/O No.741687

| Inspection Certificate:<br>(EN10204-3.1) | Certificate-No.01 202 TWN/Q-02-0056 | Report No.:<br>2018U02127755 | Page<br>23 of 72 |
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Date \_\_\_\_\_

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2025/1/16

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2025/1/16

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