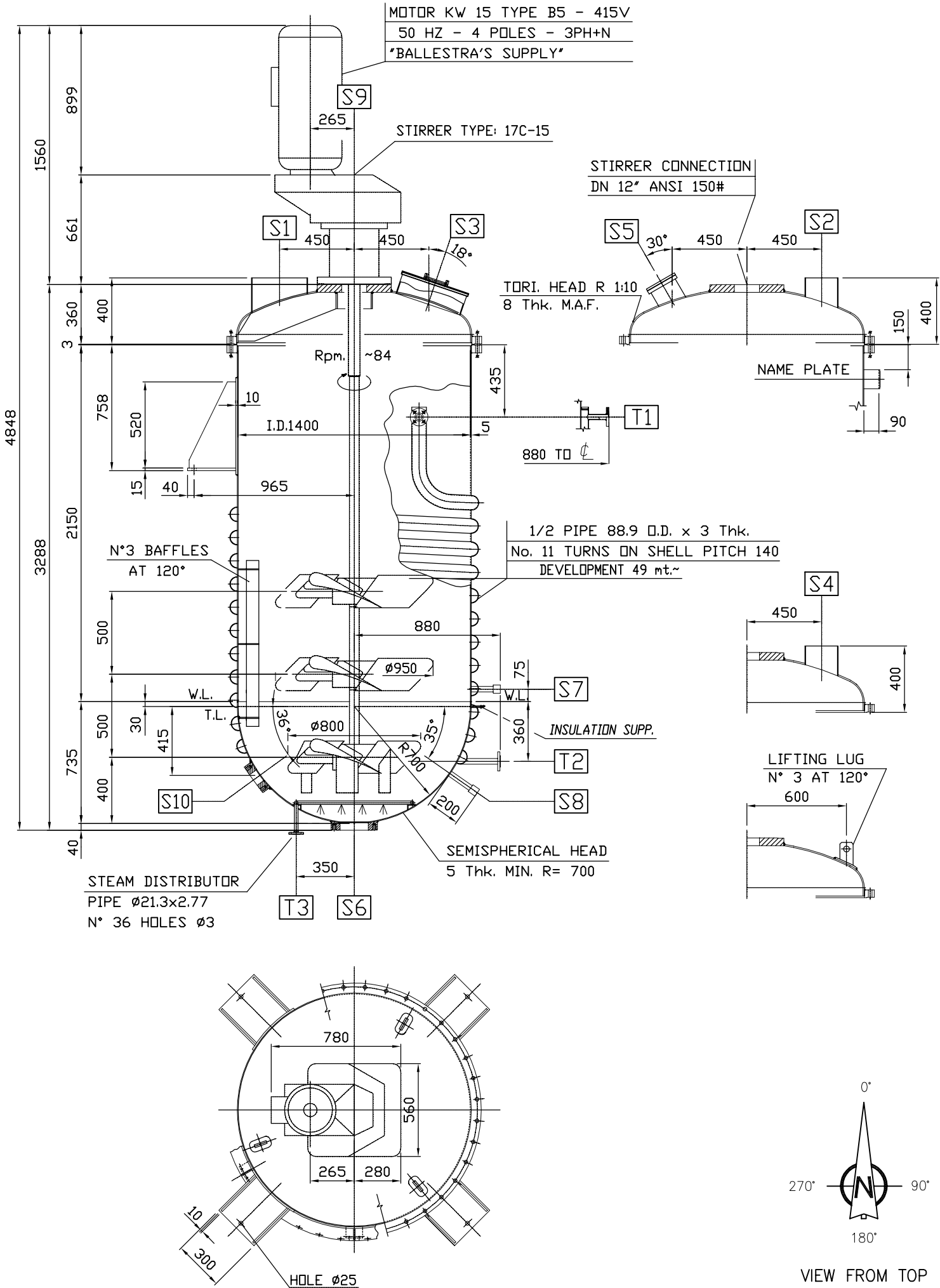


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|--|----------|------------------------|--|-----------------|-------------------|----------------------------|---|-----------------------------------|------------------------------|--------------|--------|---------------|
| <div><div></div><div>desmet ballestra</div></div>  |          |                        | ITEM <b>63A1B</b>                                      |                 | CUSTOMER _____    |                            |   | DWG. <b>2F11 . 35 . 119</b>       |                              |              |        |               |
|  |          |                        |  |                 | SLURRY PREPARATOR |                            |   | FLOW SHEET <b>2F11 . 10 . 104</b> |                              |              |        |               |
|  |          |                        |  |                 |                   |                            |   |                                   |                              |              |        |               |
| N°REQUIRED <b>1</b>  |          | PLANT <b>SABIZ</b>     |  | JOB <b>2F11</b> |                   | SHEET <b>1</b> OF <b>1</b> |   |                                   |                              |              |        |               |
| Rev.   | Date     | Drawn                  |  |                 |                   |                            |   |                                   |                              |              |        |               |
| 0  | 27.02.12 | T.T.                   | ISSUED FOR INFORMATION                                 |                 |                   |                            |   |                                   |                              |              |        |               |
| 1  | 10.04.12 | F.C.                   | ISSUED FOR MATERIAL SUPPLY – NOZZLES ORIENTATION ADDED |                 |                   |                            |   |                                   |                              |              |        |               |
| 2  | 21.06.12 | F.C.                   | ISSUED FOR CONSTRUCTION – HOLD POINTS DEFINED          |                 |                   |                            |   |                                   |                              |              |        |               |
| 3  |          |                        |  |                 |                   |                            |   |                                   |                              |              |        |               |
| 4  |          |                        |  |                 |                   |                            |   |                                   |                              |              |        |               |
| 5  |          |                        |  |                 |                   |                            |   |                                   |                              |              |        |               |
| THE MASTER VERSION OF THIS DOCUMENT IS STORED AS A DIGITAL FILE IN A DATABASE – APPROVAL PROCESS IS DIGITALLY MANAGED, AND NO SIGNATURE IS VISIBLE ON THE DOCUMENT |          |                        |  |                 |                   |                            |   |                                   |                              |              |        |               |
| NOZZLES  |          |                        |  |                 |                   |                            | DESIGN DATA                                   |                                   | SHELL                        | COIL         | JACKET |               |
| POS.   | SIZE     | RATING                 | N°   | SERVICE         | THK.              | NOZZLES ORIENT.            | OPERATING PRESSURE <b>Bar (g)</b>             |                                   | <b>0</b>                     | <b>6</b>     |        |               |
| S1   | I.D.330  | AS DWG.                | 1  | SOLID INLET     | 4                 | 180°                       | DESIGN PRESSURE <b>Bar (g)</b>                |                                   | <b>0</b>                     | <b>8</b>     |        |               |
| S2   | øe200    | AS DWG.                | 1  | AV OUTLET       | 4                 | 270°                       | HYDROSTATIC TEST PRESSURE <b>Bar (g)</b>      |                                   | <b>FILLING H2O</b>           | <b>12</b>    |        |               |
| S3   | øe400    | AS DWG.                | 1  | MANHOLE         | 4                 | 0°                         | PNEUMATIC TEST PRESSURE <b>Bar (g)</b>        |                                   | <b>–</b>                     | <b>–</b>     |        |               |
| S4   | øe200    | AS DWG.                | 1  | LIQUID INLET    | 4                 | 90°                        | OPERATING TEMPERATURE <b>°C</b>               |                                   | <b>60</b>                    | <b>164</b>   |        |               |
| S5   | 6"       | AS DWG.                | 1  | SIGHT GLASS     | 4                 | 45°                        | DESIGN TEMPERATURE <b>°C</b>                  |                                   | <b>90</b>                    | <b>175</b>   |        |               |
| S6   | 6"       | ANSI 150#              | 1  | SB OUTLET       | –                 | Ø                          | FLUID/SPECIFIC WEIGHT <b>up to 1.6 Kg/dm3</b> |                                   | <b>SLURRY</b>                | <b>STEAM</b> |        |               |
| S7   | 1" F     | ASME B1.20.1 3000# NPT | 1  | TI CONNECTION   | 3.38              | 270°                       | HEAT EXCHANGE SURFACE <b>m2</b>               |                                   | <b>–</b>                     | <b>6.9</b>   |        |               |
| S8   | 1" F     | ASME B1.20.1 3000# NPT | 1  | TE CONNECTION   | 3.38              | 270°                       | HEAT TREATMENT                                |                                   | <b>–</b>                     | <b>–</b>     |        |               |
| S9   | 12"      | ANSI 150#              | 1  | STIRRER CONN.   | –                 | Ø                          | X-RAY TEST                                    |                                   | <b>–</b>                     | <b>–</b>     |        |               |
| S10  | 3"       | ANSI 150#              | 1  | LT CONNECTION   | –                 | 90°                        | PENETRATING LIQUIDS TEST                      |                                   | <b>–</b>                     | <b>–</b>     |        |               |
| T3   | 1/2"     | S.D. – R.F. 150#       | 1  | STEAM INLET     | 2.77              | 270°                       | JOINT EFFICIENCY                              |                                   | <b>0,7</b>                   | <b>0,7</b>   |        |               |
| T1   | 1"       | S.D. – R.F. 150#       | 1  | VB INLET        | 3.38              | 0°                         | CORROSION ALLOWANCE <b>mm</b>                 |                                   | <b>–</b>                     | <b>–</b>     |        |               |
| T2   | 1"       | S.D. – R.F. 150#       | 1  | CB OUTLET       | 3.38              | 0°                         | GEOMETRIC CAPACITY <b>litri</b>               |                                   | <b>4500</b>                  | <b>132</b>   |        |               |
| LIFTING LUGS POSITION  |          |                        |  |                 |                   | 25°                        | INSPECTION INSTITUTE <b>BALLESTRA S.p.A.</b>  |                                   |                              |              |        |               |
|  |          |                        |  |                 |                   | 135°                       | CODE <b>STD. BALLESTRA</b>                    |                                   |                              |              |        |               |
|  |          |                        |  |                 |                   | 245°                       | WEIGHTS                                       |                                   |                              |              |        |               |
| BRACKETS POSITION  |          |                        |  |                 |                   | 45°                        | EMPTY <b>1200~ Kg</b>                         |                                   | OPERATING <b>6300 Kg</b>     |              |        |               |
|  |          |                        |  |                 |                   | 135°                       |   |                                   |                              |              |        |               |
|  |          |                        |  |                 |                   | 225°                       | WITH STIRRER <b>2120 Kg</b>                   |                                   | WATER FILLED <b>6365~ Kg</b> |              |        |               |
|  |          |                        |  |                 |                   | 315°                       | STD. DETAILS                                  |                                   |                              |              |        | ENCLOSED DWG. |
| NAME PLATE POSITION  |          |                        |  |                 |                   | 270°                       | WORKING DWG.                                  |                                   | <b>2F11.30.119/2</b>         |              |        |               |
| MATERIALS  |          |                        |  |                 |                   | MANHOLE "S3"               |   | <b>SB-ST-0249/1</b>               |                              |              |        |               |
| SHELL  |          |                        |  |                 | A 283 C           | SIGHT GLASS "TYPE – C"     |   | <b>SB-ST-0270/1</b>               |                              |              |        |               |
| HEAD   |          |                        |  |                 | A 283 C           | GENERAL NOTES              |   | <b>SB-PRS-SP001/0</b>             |                              |              |        |               |
| FLANGES/LUMPS  |          |                        |  |                 | A 105             | PAINTING                   |   | <b>SB-ATI-SP002/4</b>             |                              |              |        |               |
| NOZZLES  |          |                        |  |                 | A 106 B           | NAME PLATE HOLDER          |   | <b>SB-ST-0377/1</b>               |                              |              |        |               |
| COIL   |          |                        |  |                 | A 106 B           | NAME PLATE                 |   | <b>SB-PRS-00120/1</b>             |                              |              |        |               |
| BRACKETS   |          |                        |  |                 | A 283 C           |                            |   |                                   |                              |              |        |               |
| GASKET   |          |                        |  |                 | See SP. 1444/1    |                            |   |                                   |                              |              |        |               |
| STUD BOLTS   |          |                        |  |                 | A 307 B           |                            |   |                                   |                              |              |        |               |
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