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|                                                           |  |  |  |                                                                             |  |  |  |                                                                               |  |  | Designer | Appr. By                                        | Date |    |  |                                        |  |  |  |
| FLOW DIAGRAM SYMBOLS                                      |  |  |  |                                                                             |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| PIPING SYMBOLS                                            |  |  |  | INSTRUMENTS                                                                 |  |  |  | HYGIENIC VALVES                                                               |  |  |          | NON-HYGIENIC VALVES                             |      |    |  | PUMPS                                  |  |  |  |
| <div><div></div>PROCESS MEDIA, RED</div>                  |  |  |  | <div><div></div>COMMON INSTRUMENT LOCALLY MOUNTED</div>                     |  |  |  | <div><div></div>ASEPTIC VALVE GENERAL SYMBOL</div>                            |  |  |          | <div><div></div>NORMALLY OPEN VALVE WAY</div>   |      |    |  | <div><div></div>CENTRIFUGAL PUMP</div> |  |  |  |
| <div><div></div>CLEANING MEDIA, MAGENTA</div>             |  |  |  | <div><div></div>COMMON INSTRUMENT PANEL MOUNTED OR SOFT-WARE FUNCTION</div> |  |  |  | <div><div></div>MANUAL PLUG COCK 2-WAY</div>                                  |  |  |          | <div><div></div>NORMALLY CLOSED VALVE WAY</div> |      |    |  | <div><div></div>POSITIVE PUMP</div>    |  |  |  |
| <div><div></div>SERVICE MEDIA, CYAN</div>                 |  |  |  | <div><div></div>DUMMY</div>                                                 |  |  |  | <div><div></div>MANUAL PLUG COCK 3-WAY</div>                                  |  |  |          | <div><div></div>MANUAL SHUT-OFF VALVE</div>     |      |    |  | <div><div></div>VACUUM PUMP</div>      |  |  |  |
| <div><div></div>ELECTRICAL CONTROL, GREEN</div>           |  |  |  |                                                                             |  |  |  | <div><div></div>MANUAL SANITARY CONTROL VALVE</div>                           |  |  |          | <div><div></div>MANUAL CHANGE-OVER VALVE</div>  |      |    |  | <div><div></div>LIQUID RING PUMP</div> |  |  |  |
| <div><div></div>AIR CONTROL, BLUE</div>                   |  |  |  | FIRST LETTER                                                                |  |  |  | <div><div></div>FLOW CONTROL VALVE</div>                                      |  |  |          | <div><div></div>MANUAL CONTROL VALVE</div>      |      |    |  | <div><div></div>SCREW PUMP</div>       |  |  |  |
| <div><div></div>LIQUID CONTROL, ORANGE</div>              |  |  |  | Measured or initiation variable                                             |  |  |  | <div><div></div>SANITARY MODULATING VALVE</div>                               |  |  |          | <div><div></div>AIR RELEASE VALVE</div>         |      |    |  |                                        |  |  |  |
| <div><div></div>FLEXIBLE HOSE</div>                       |  |  |  | <div><div>D</div>DENSITY</div>                                              |  |  |  | <div><div></div>SANITARY NON-RETURN VALVE</div>                               |  |  |          | <div><div></div>VACUUM RELEASE VALVE</div>      |      |    |  |                                        |  |  |  |
| <div><div></div>PIPE WITH HEATING OR COOLING JACKET</div> |  |  |  | <div><div>F</div>FLOWRATE (L/H), MASSFLOW (KG/H) OR VOLUME (L)</div>        |  |  |  | <div><div></div>SANITARY MANUAL VALVE</div>                                   |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>PIPE WITH HEATING OR COOLING COIL</div>   |  |  |  | <div><div>G</div>POSITION</div>                                             |  |  |  | <div><div></div>SANITARY AUTOMATIC VALVE</div>                                |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>CAP ON PIPE END</div>                     |  |  |  | <div><div>L</div>LEVEL</div>                                                |  |  |  | <div><div></div>SANITARY MANUAL BUTTERFLY VALVE</div>                         |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>UNION</div>                               |  |  |  | <div><div>P</div>PRESSURE/VACUUM</div>                                      |  |  |  | <div><div></div>SANITARY AUTOMATIC BUTTERFLY VALVE NORMALLY CLOSED, NC</div>  |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>INSULATED PIPE</div>                      |  |  |  | <div><div>Pd</div>PRESSURE DIFFERENCE</div>                                 |  |  |  | <div><div></div>SANITARY AUTOMATIC BUTTERFLY VALVE NORMALLY OPEN, NO</div>    |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>LIMIT OF DELIVERY</div>                   |  |  |  | <div><div>Q</div>QUALITY*</div>                                             |  |  |  | <div><div></div>SANITARY MIXPROOF VALVE CLEANING OF SPINDLE AND CHAMBER</div> |  |  |          |                                                 |      |    |  |                                        |  |  |  |
| <div><div></div>ORIFICE</div>                             |  |  |  | <div><div>Q</div>QUALITY*</div>                                             |  |  |  | <div><div></div>SANITARY MIXPROOF VALVE</div>                                 |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>T</div>TEMPERATURE</div>                                          |  |  |  | <div><div></div>SANITARY MIXPROOF VALVE TANK OUTLET</div>                     |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>W</div>WEIGHT</div>                                               |  |  |  | <div><div></div>ASEPTIC SAMPLING VALVE</div>                                  |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>S</div>FREQUENCY/SPEED</div>                                      |  |  |  | <div><div></div>SANITARY SAMPLING VALVE</div>                                 |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  |                                                                             |  |  |  | <div><div></div>AIR BLOW VALVE</div>                                          |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | SECOND LETTER                                                               |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | Display of output function                                                  |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>C</div>CONTROLLING</div>                                          |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>E</div>SENSING ELEMENT</div>                                      |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>I</div>INDICATING</div>                                           |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>R</div>RECORDING</div>                                            |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>S</div>SWITCHING</div>                                            |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>T</div>TRANSMITTING</div>                                         |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>X</div>CONVERTING</div>                                           |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | THIRD LETTER                                                                |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | Qualifying letter                                                           |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>H</div>HIGH</div>                                                 |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>M</div>MEDIUM</div>                                               |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>L</div>LOW</div>                                                  |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | *TYPE OF QUALITY                                                            |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>Q<sup>BRIX</sup></div>BRIX</div>                                  |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>Q<sup>PH</sup></div>pH</div>                                      |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>Q<sup>COND</sup></div>CONDUCTIVITY</div>                          |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
|                                                           |  |  |  | <div><div>Q<sup>TURB</sup></div>TURBIDITY</div>                             |  |  |  |                                                                               |  |  |          |                                                 |      |    |  |                                        |  |  |  |
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| Machine No<br><b>T5845650179</b>                                                                       | Dispenser<br><b>UC</b> | Appr. By<br><b>JNJ</b> | Date<br><b>2002-01-17</b>        | File Name<br><b>30213-0254</b> |
| Company<br><b>Tetra Pak Dairy &amp; Beverage Syst AB</b>                                               |                        | Format<br><b>A2</b>    | Template                         |                                |
|  <b>Tetra Pak</b> |                        | Scale<br><b>1:1</b>    | Document No<br><b>30213-0254</b> | Revision<br><b>0</b>           |