

<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>10</div> <div>11</div> <div>12</div> <div>13</div> <div>14</div> <div>15</div> <div>16</div> <div>17</div> <div>18</div> <div>19</div> <div>20</div> <div>21</div> <div>22</div> <div>23</div> <div>24</div> <div>25</div> <div>26</div> <div>27</div> <div>28</div> <div>29</div> <div>30</div> <div>31</div> <div>32</div> <div>33</div> <div>34</div> <div>35</div> <div>36</div> <div>37</div> <div>38</div> <div>39</div> <div>40</div> <div>41</div> <div>42</div> <div>43</div> <div>44</div> <div>45</div> <div>46</div> <div>47</div> <div>48</div> </div> <div>Line</div>								<div> <div>GENERAL INFORMATION</div> <div> <div>Description</div> <div>Three (3) Element In-line Liquid Static Mixer Train for two products</div> </div> <div> <div>Manufacturer</div> <div> <div>*</div> <div>Weight, lbs</div> <div>*</div> </div> </div> </div> <div> <div>PROCESS INFORMATION</div> <div> <div> <div>Total Flow, lpm (gpm)</div> <div>Product A</div> <div>6 480</div> <div>Product B</div> <div>4 500</div> <div>Normal Temperature, °C</div> <div>20</div> </div> <div> <div>Maximum Mixing Pressure, bar (psig)</div> <div>Product A</div> <div>5-7 bar</div> <div>Product B</div> <div>5-7 bar</div> <div>Maximum Temperature, °C</div> <div>80</div> </div> <div> <div>Total Liquid Components, kgs/hr</div> <div>Product A</div> <div>6 480</div> <div>Product B</div> <div>4 500</div> </div> </div> <div> <div>PRODUCT A - TOILET CLEANER</div> <div> <div> <div>Fluid "A"</div> <div>Fluid "B"</div> <div>Fluid "C"</div> <div>Fluid "D"</div> <div>Fluid "E"</div> </div> <div> <div>Fluid Name</div> <div>Component Solution</div> <div>Dye Solution</div> <div>Dye Solution</div> <div>Fragrance</div> <div>30% Hydrochloric Acid</div> </div> <div> <div>Flow Rate, lph</div> <div>4 442</div> <div>114</div> <div>114</div> <div>6,5</div> <div>1 804</div> </div> <div> <div>Specific Gravity</div> <div>1,0</div> <div>1,0</div> <div>1</div> <div>0.92-0.99</div> <div>1,07</div> </div> <div> <div>Viscosity, cp</div> <div>1,0</div> <div>1,0</div> <div>1</div> <div>30</div> <div>1,4</div> </div> <div> <div>Total Gas Components, lb/hr</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> </div> <div> <div>Nominal Inlet Pipe, Size x Pr. Cl. x Facing</div> <div>50 mm (2.0-in)</div> <div>20 mm (0.75-in)</div> <div>20 mm (0.75-in)</div> <div>10 mm (0.375-in)</div> <div>25 mm (1-in)</div> </div> </div> <div> <div>PRODUCT B - MULTI-PURPOSE CLEANER</div> <div> <div> <div>Fluid "A"</div> <div>Fluid "B"</div> <div>Fluid "C"</div> <div>Fluid "D"</div> </div> <div> <div>Fluid Name</div> <div>Component Solution</div> <div>Dye Solution</div> <div>Dye Solution</div> <div>Fragrance</div> </div> <div> <div>Flow Rate, lph</div> <div>4 268</div> <div>113,4</div> <div>114,8</div> <div>5</div> </div> <div> <div>Specific Gravity</div> <div>1,0</div> <div>1,0</div> <div>1</div> <div>0.92-0.99</div> </div> <div> <div>Viscosity, cp</div> <div>1,0</div> <div>1,0</div> <div>1</div> <div>30</div> </div> <div> <div>Total Gas Components, lb/hr</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> </div> <div> <div>Nominal Inlet Pipe, Size x Pr. Cl. x Facing</div> <div>50 mm (2.0-in)</div> <div>20 mm (0.75-in)</div> <div>20 mm (0.75-in)</div> <div>10 mm (0.375-in)</div> </div> </div> </div> <div> <div>CONSTRUCTION</div> <div> <div> <div>Calculated Pressure Drop, psi</div> <div>*</div> <div>Housing Material</div> <div> <div>316 SS - SM-101</div> <div>Hastelloy C - SM-102 & SM-103</div> </div> </div> <div> <div>Maximum Pressure Drop, bar</div> <div>1.5 bar total for all three sections</div> <div>Internals Material</div> <div> <div>316 SS - SM-101</div> <div>Hastelloy C - SM-102 & SM-103</div> </div> </div> <div> <div>Inline Nominal Pipe Size</div> <div>50 mm (2.0-in)</div> <div>End Connections</div> <div>Tri-Clamp</div> </div> <div> <div>Wall Thickness, inches</div> <div>STD</div> <div>For Flanged Connection:</div> <div> <div>Face</div> <div></div> </div> </div> <div> <div>Number of Elements</div> <div>3 Sections - See Sketch</div> <div>Class</div> <div></div> </div> <div> <div>Method of Attachment - Element to Shell</div> <div>Tri-Clamp</div> <div>Supports Required, Y/N</div> <div>No</div> </div> <div> <div>Overall Length, ft-in</div> <div>*</div> <div>Support Description</div> <div>*</div> </div> </div> </div> <div> <div>SKETCH</div> <div> <div>Flow In</div> <div>Flow Out</div> <div> <div>A</div> <div>SM-101</div> <div>B</div> <div>C</div> <div>D</div> <div>SM-102</div> <div>E</div> <div>SM-103</div> </div> </div> </div> <div> <div>NOTES</div> <div> <div>Vendor to fill in any fields identified with an asterisk (*) in the proposal.</div> <div> <div>The static mixer train will receive up to five input streams as shown in the sketch for two products. Each static mixer should provide</div> <div>1 maximum dispersion with the allowable pressure drop.</div> <div>2 Interconnecting piping will be by others.</div> </div> </div> </div> </div></div>								Rev