

Tikz P&ID circuit extension

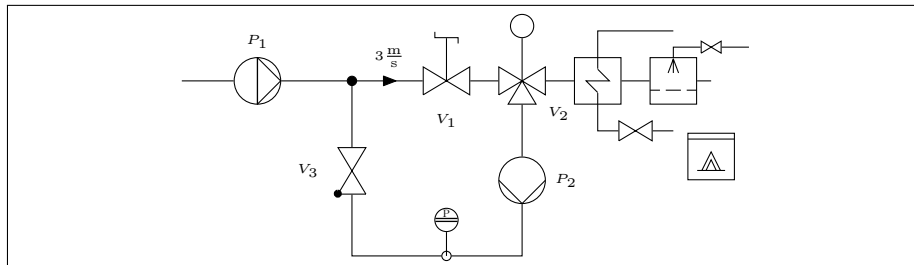
Jelle Spijker

January 21, 2018

```

1 \usepackage{tikz}
2 \usetikzlibrary { circuits }
3 \usetikzlibrary { circuits .pid.ISO14617 }
4 \usetikzlibrary { positioning , calc }
5
6 \begin{tikzpicture}[
7   circuit pid ISO14617,
8   every info /. style={font=\tiny}]
9
10  \draw (0,0) to [pump={displacement,name=P1,info=$P_1$}](2,0)
11  to [branch={name=T1}](2.5,0)
12  to [flow direction={speed=3}](3,0)
13  to [valve={name=V1,info'=$V_{1}$}](4,0)
14  to [three way valve={name=V2,info=belowright:$V_2$}]+(1,0)
15  to [tank={name=B1,with={heatingcoil}{0pt}{0pt}}]+(1,0)
16  to [tank={name=F1,with={filterelement}{0}{-0.5},with={spraynozzle}{0}{0.8}}]+(
    1,0);
17  \draw (V2.south) to [pump={name=P2,info=$P_2$}]+(0,-2)
18  to [measurementpoint={name=M1}]+(-2,0)
19  to (\currentcoordinate -| T1)
20  to [valve={nonreturn,info=$V_3$}](T1);
21  \node[measurementdevice=localcontrol room, at=M1,measure=P]{};
22  \node[turning actuator, at=V1]{};
23  \node[automaticoperation, at=V2]{};
24  \node[boiler={name=B2,with={firedtype}{0}{-0.25}}]at(7,-1){};
25  \draw (B1-heatingcoil.south) to ++(0,-0.5)
26  to [valve, tiny circuit symbols] ++(1,0);
27  \draw (B1-heatingcoil.north) to ++(0,0.5)
28  to ++(1,0);
29  \draw (F1-spraynozzle.north) to ++(0,0.15)
30  to [valve, circuit symbolunit=3pt] ++(1,0);
31
32 \end{tikzpicture}

```



Listing1: P&ID example code