# PGF Gas
# Using TikZ circuits to draw gas networks.

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This package defines four new symbols for common elements in natural gas networks:

cs  Compressors

va  Valves

cv  Control valves

re  Resistors

Requires pgf with circuits library, e.g., version 2.10.

```
\begin{tikzpicture}[circuit]
  \draw (0,3) to [cs] (2,3);
  \draw (0,2) to [va] (2,2);
  \draw (0,1) to [cv] (2,1);
  \draw (0,0) to [re] (2,0);
\end{tikzpicture}
```
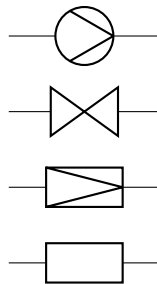
Figure 1: All the standard elements are available.

```
\begin{tikzpicture}[circuit, scale=1.5, circuit symbol unit=10pt]
  \draw (0,0)    to [cv={fill=yellow}] (5,0);
  \draw (0,0)    to [cs={red}] (0,2);
  \draw (0,2)    to [va={fill=green}] (3,2);
  \draw (5,0)    to [re] (3,2);
  \draw (0,0)    to [cs={fill=red}] (3,2);
\end{tikzpicture}
```
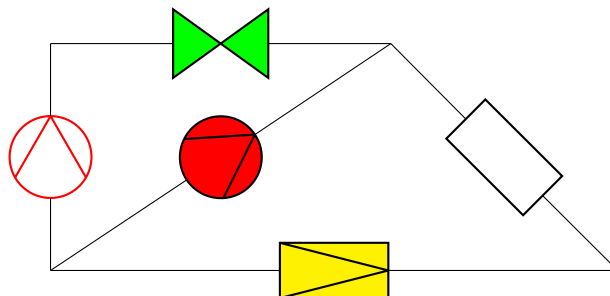
Figure 2: They can also be colored, filled, scaled and are automatically placed and rotated.