

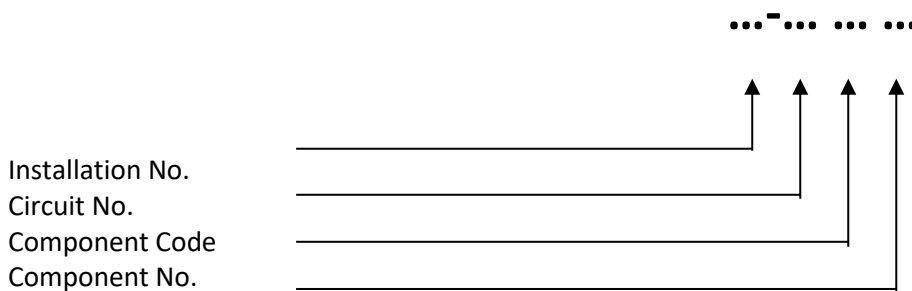
elecworks™ Tips & Tricks

Peer to Peer

Nowadays, many customers are not only responsible for producing the electrical drawings but also the instrument or pneumatic drawings as well. A job may have a mixed discipline and may include pneumatic and electrical schematics. In this type of situation, a component may be drawn in the pneumatic drawing such as a valve and have an associated solenoid defined in the electrical schematic. These types of components would be defined as “parent” devices. However, because there is an international convention for numbering pneumatics and hydraulics (ISO1219 as an example), the component in the pneumatic circuit would have an entirely different component tag to the one in the schematic.

Example 1:

In accordance with ISO1219-2 a **valve** in a pneumatic drawing would be numbered with a prefix of V.



In the electrical schematic a device which is defined as “*electrically operated mechanical equipment*” in accordance with IEC61346-1 is numbered with a prefix of Y. Of course IEC61346 has also been superseded by IEC81346 but most companies still seem to be operating in accordance with the older standard.

Therefore, though each device is represented as a parent device, you can still set up a peer-to-peer relationship between them so that the electrical schematic’s tag name will automatically cross-reference to the pneumatics’ drawing and the pneumatics’ tag cross-reference to the electrical schematics drawing.

For more information on how this is achieved, please refer to the following:

[Peer to Peer Cross Referencing](#)