

# Using AutoCAD Electrical For More Than Just Schematics

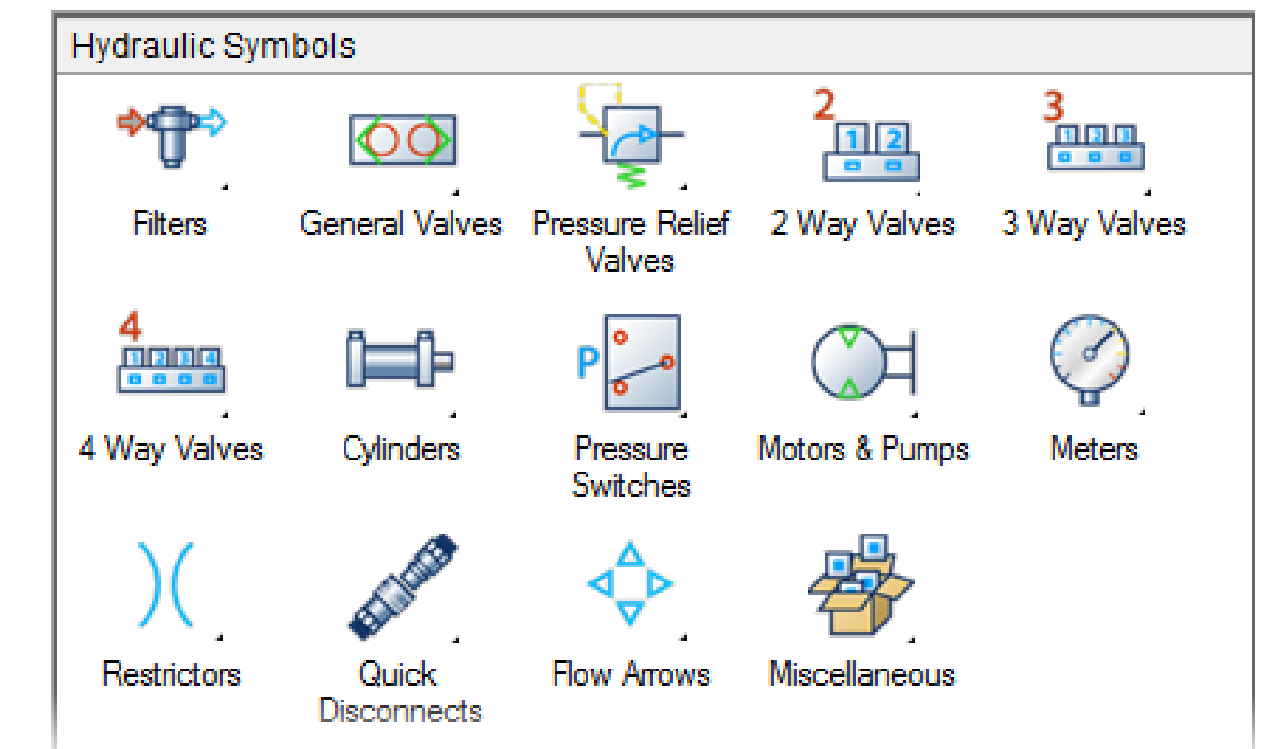
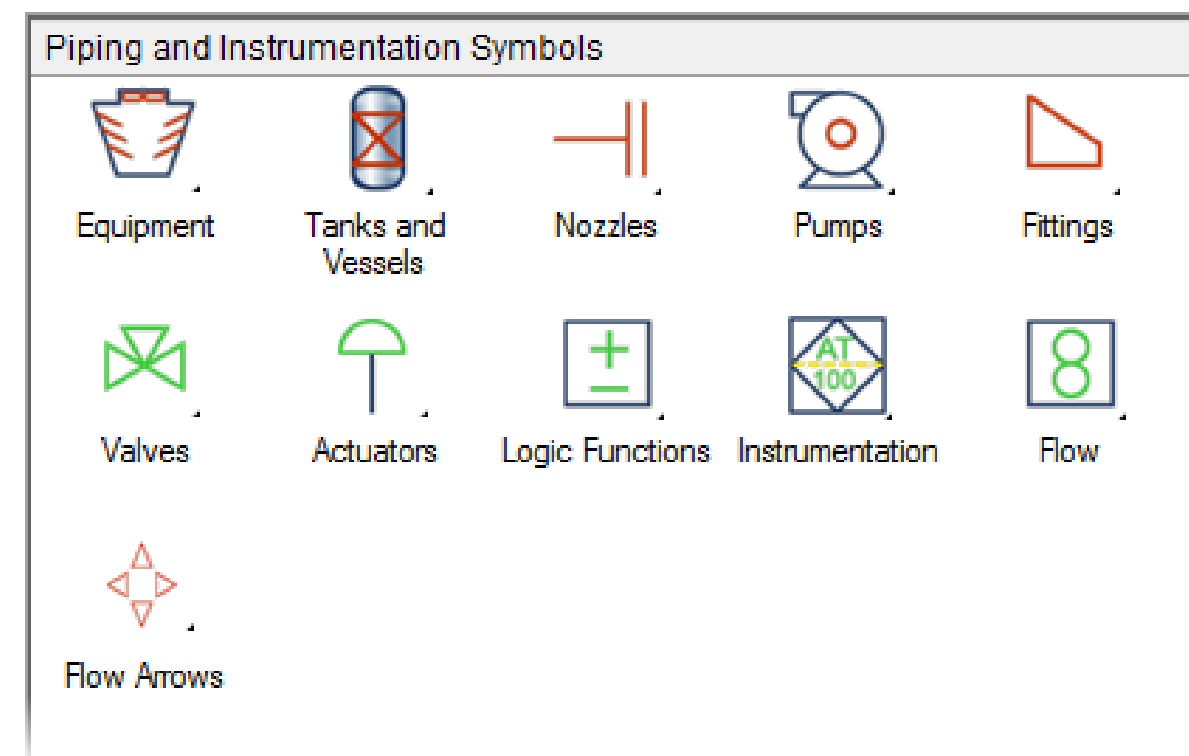
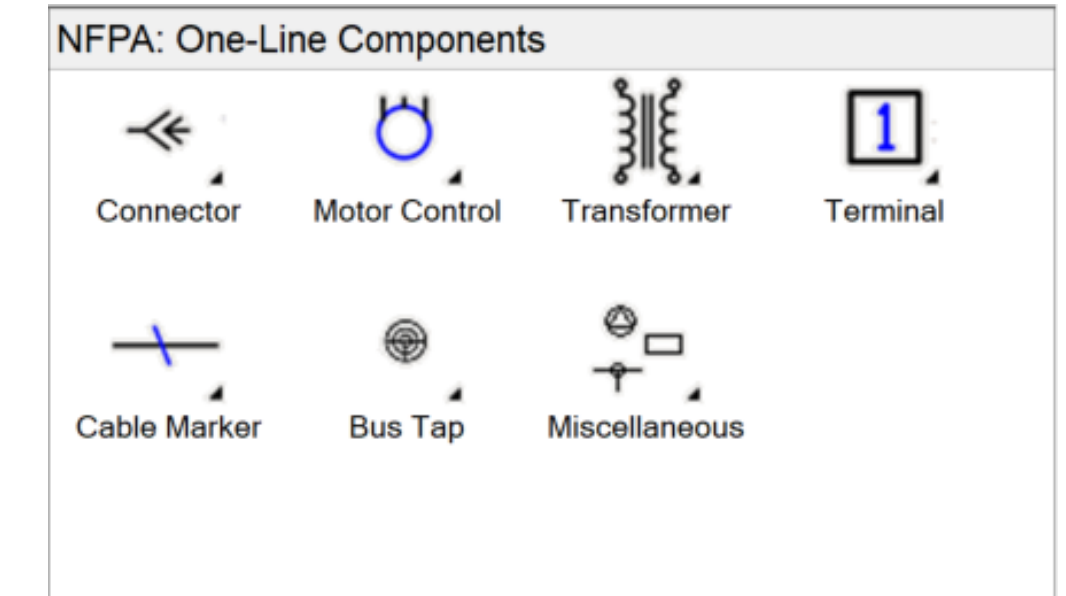
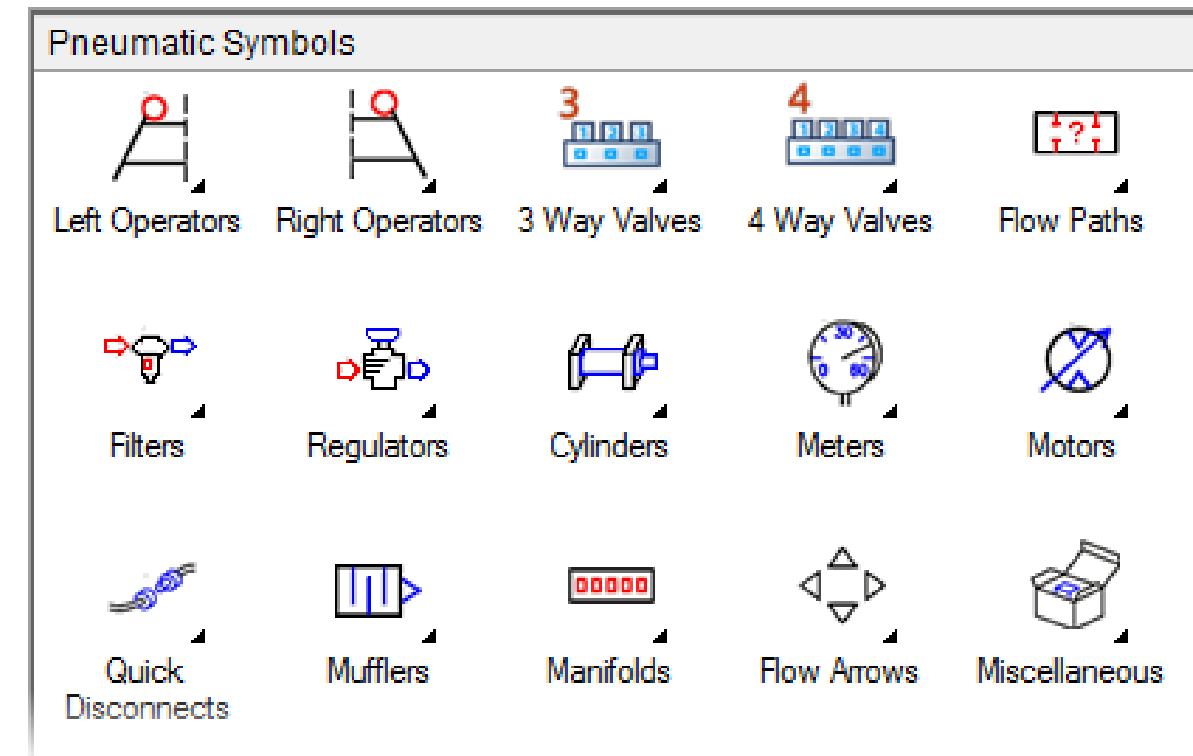
Randy Brunette

AutoCAD Electrical Subject Matter Expert



# Agenda

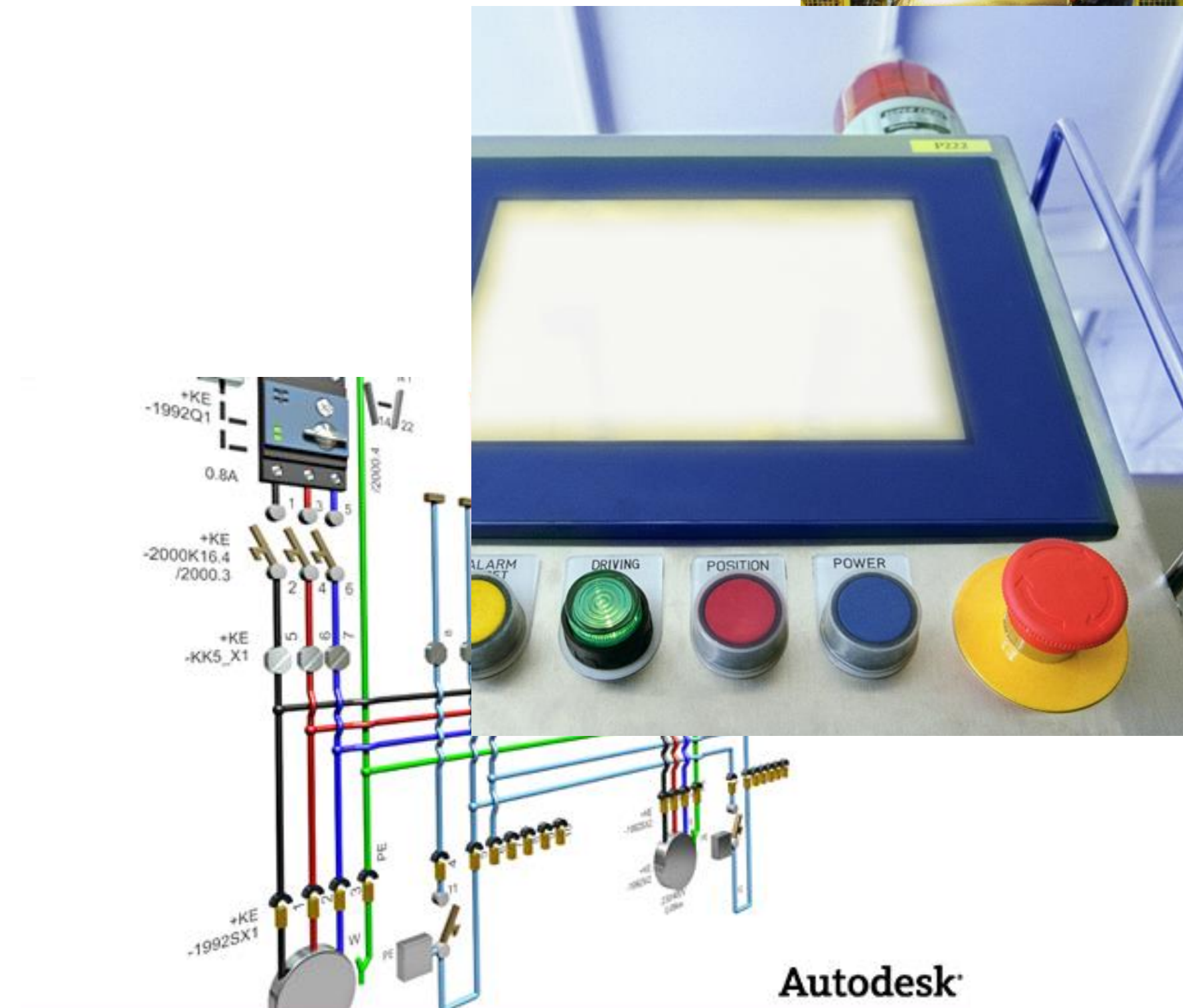
- Introduction
- What are Peer Components?
- One-line Symbols
- Library Access
- WDType attribute
- WDTAGALT attribute
- Linking Peer Components
- Create Custom Categories



# About me (technical)

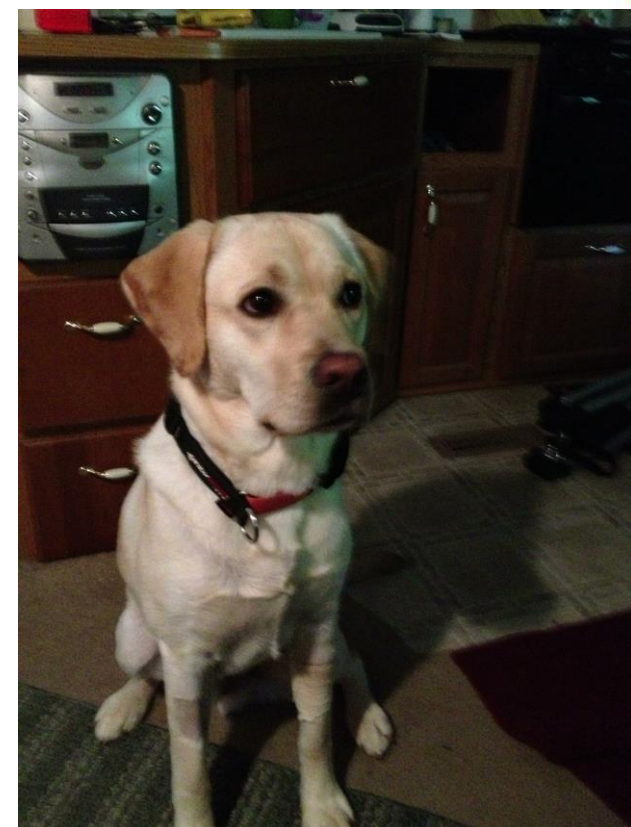


- 11 years owner of Brunette Technologies, LLC  
As of 8 days ago, now with Spatial Business Systems, Inc.
- 34 years in industry as worker and designer
- AutoCAD since 1984
- AutoCAD Electrical since 1996
- 23 years as Application Engineer
- 12+ years authoring AutoCAD Electrical materials, including AOTC



# About Me... (personal)

- Hometown – Chilton, Wisconsin, USA
- Married, two daughters, two son-in-laws, one grand child, and a dog



Wisconsin



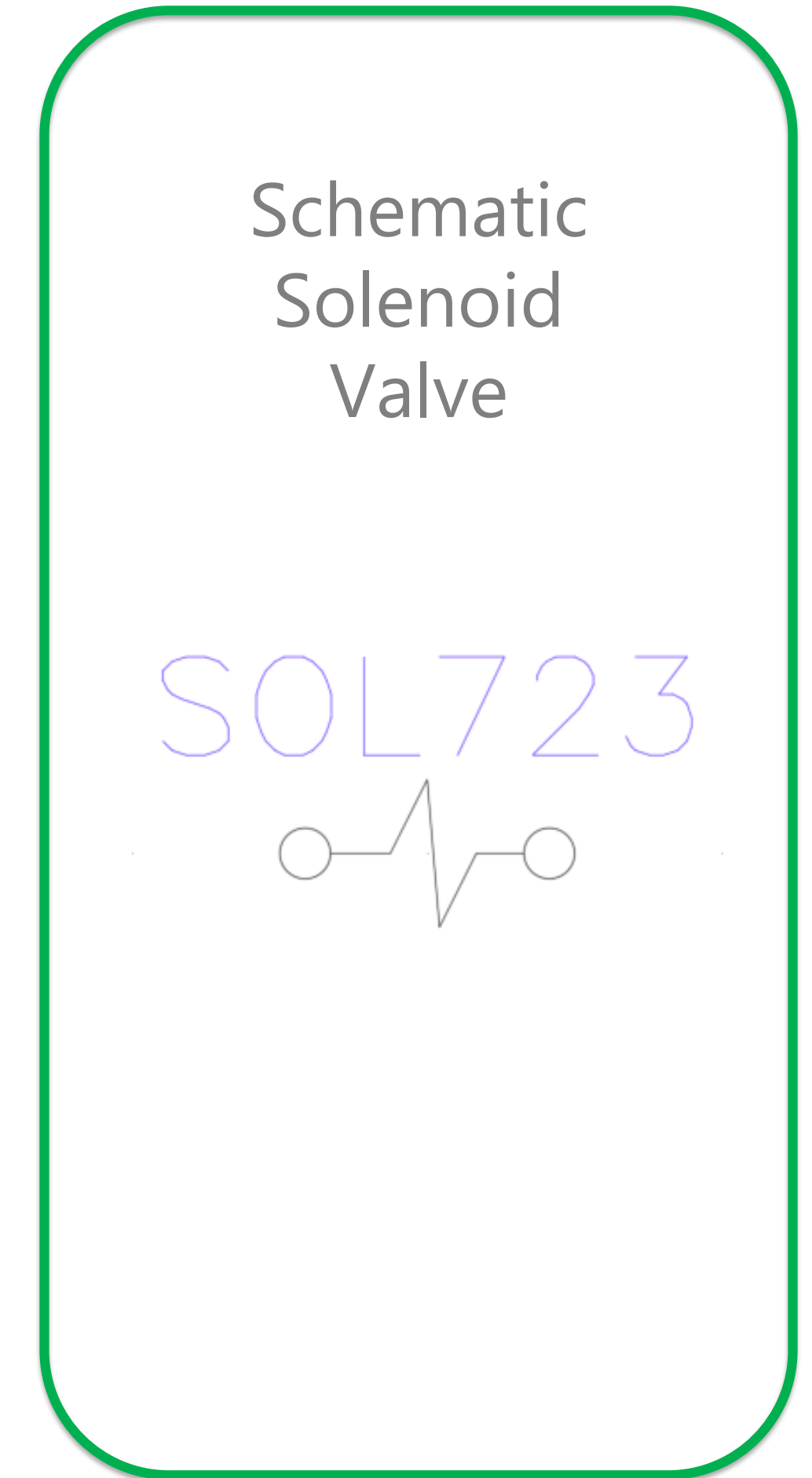
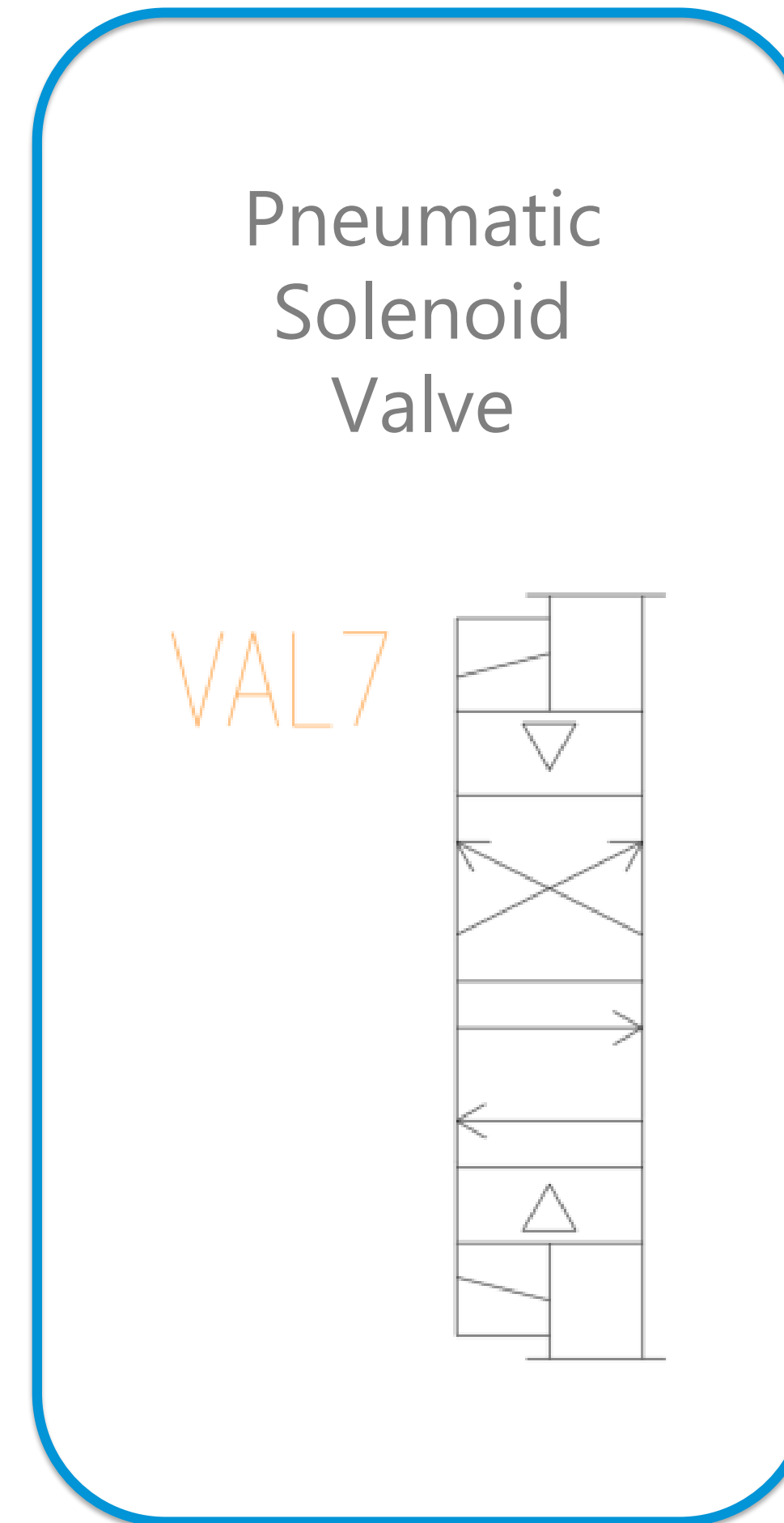
# Fly Radio Control Aircraft

**First rule of flying:  
Takeoffs are optional,  
Landings are mandatory.**



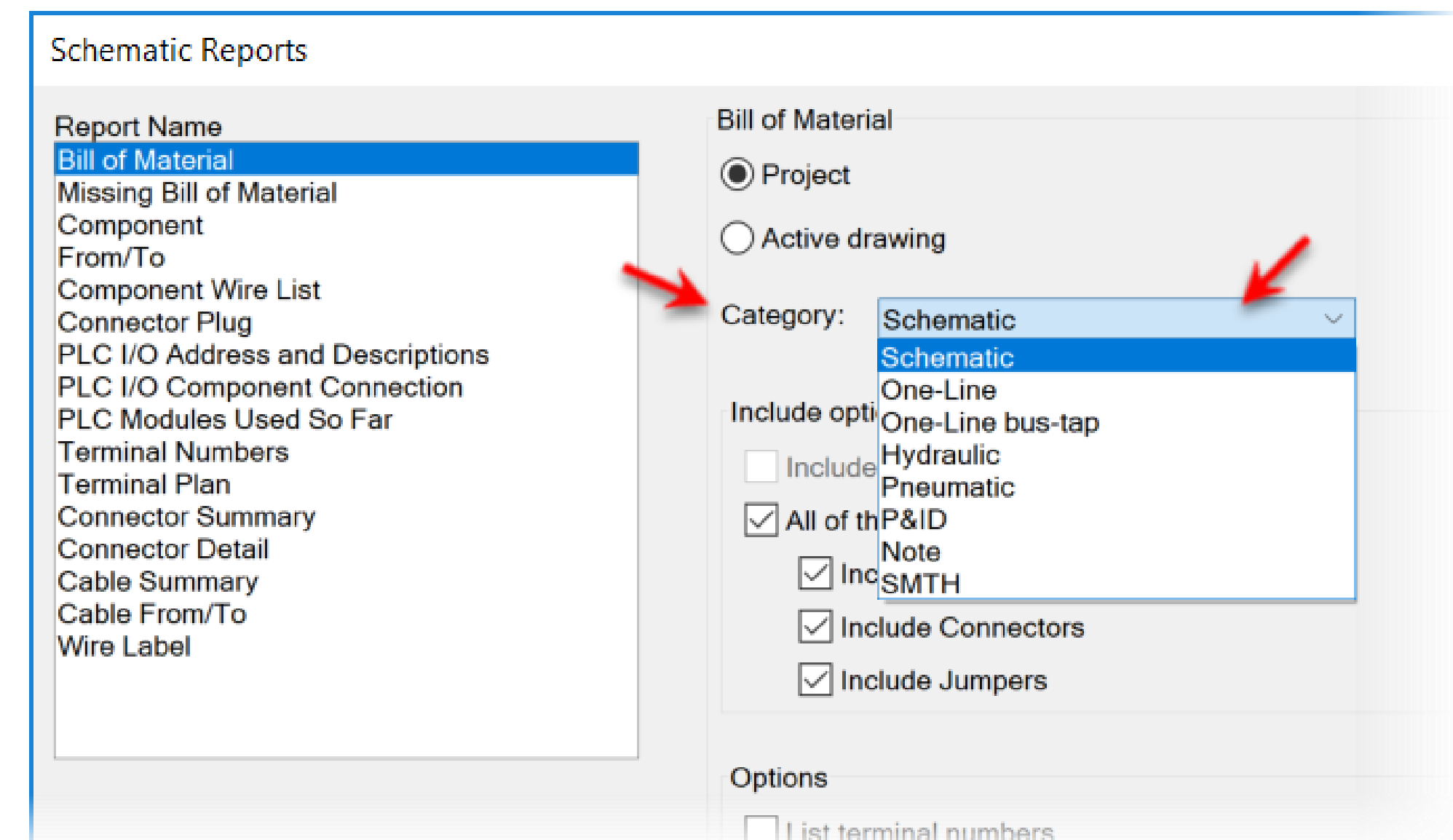
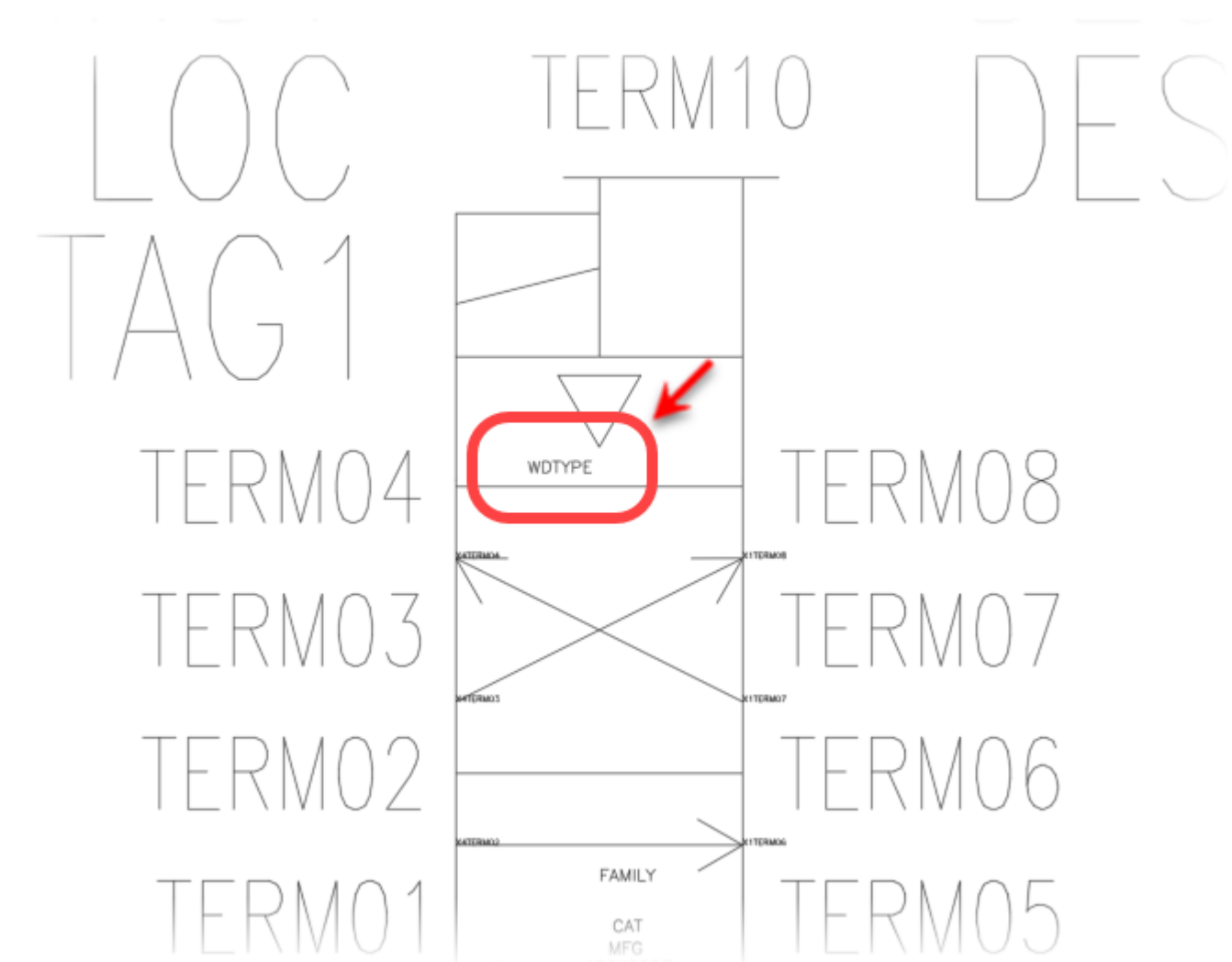
# What Are Peer Components?

- The same components displayed in a different representation on a different style drawing
- Matching components on the same level or hierarchy
  - NOT a parent/child type relationship
  - Similar to Schematic and Panel relationship which links TAG1 and P\_TAG1 attributes
  - Peers are linked using WDTYPE and WDTAGALT attributes
- Symbol Styles include:
  - One-line (but still electrical)
  - Pneumatic, Hydraulic, P&ID
  - Anything else you can think of...



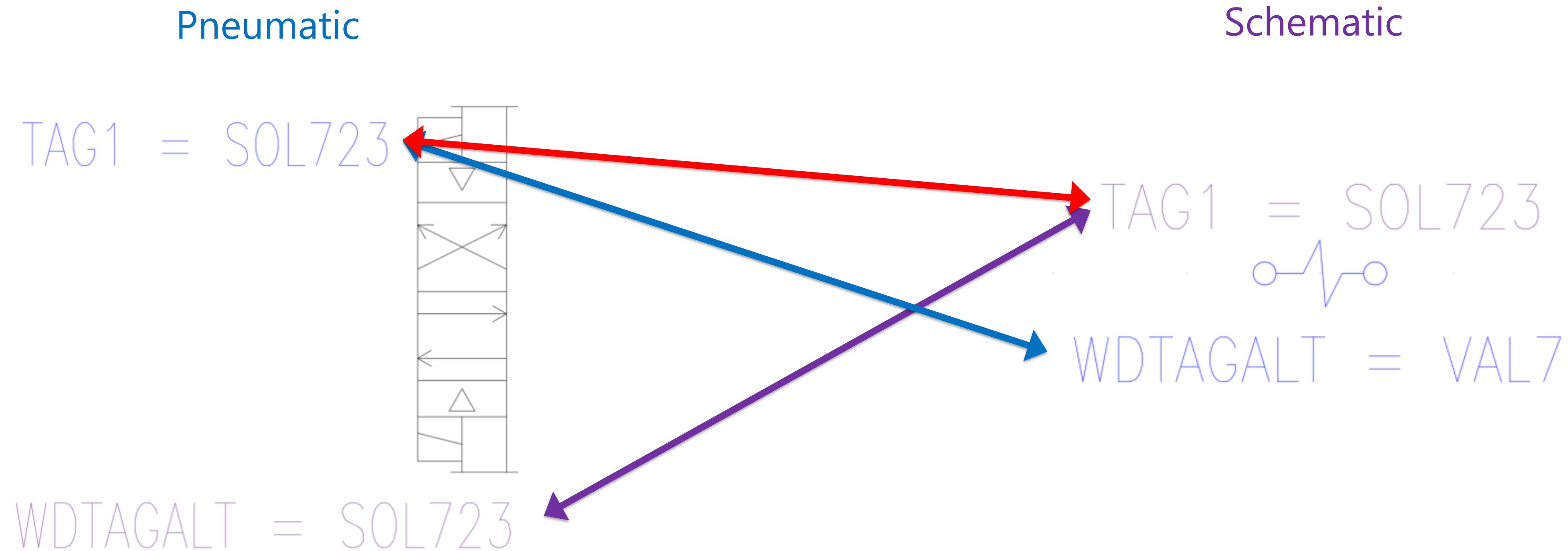
# WDTYPE Attribute

- WDTYPE identifies the style or category of the symbol
- Already inserted on the included peer symbols
  - PN = Pneumatic
  - HY = Hydraulic
  - PI = P&ID
  - 1- = One-line
- If symbol carries TAG1, and WDTYPE is missing or blank, *Schematic* type is assumed

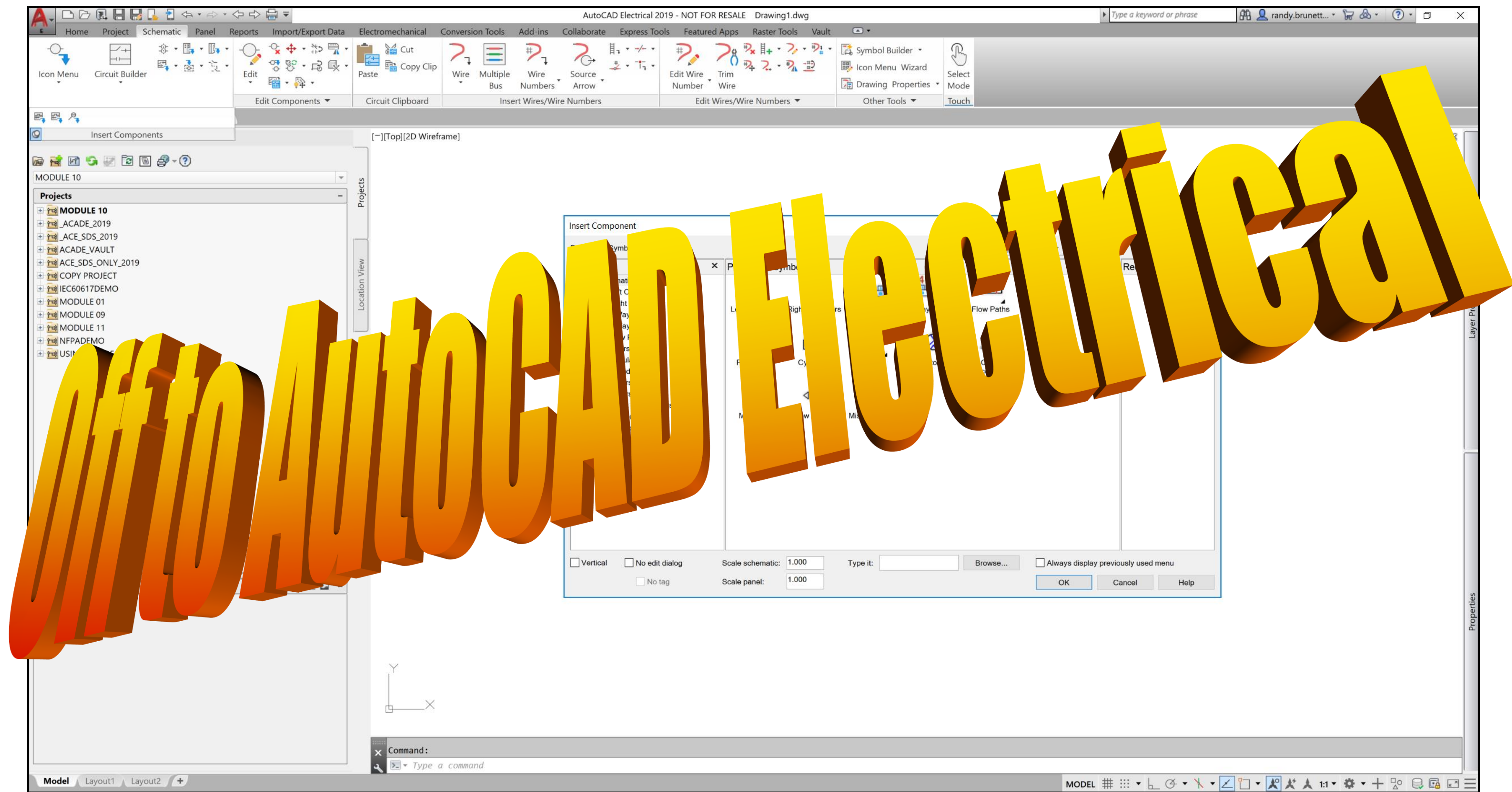


# WDTAGALT Attributes

- Two methods to link peer components,
  - TAG1 – When both components will have matching tags values, only TAG1 is used
  - WDTAGALT – When components need different tag values, WDTAGALT is used
    - Using WDTAGALT links to the matching peer TAG1 value

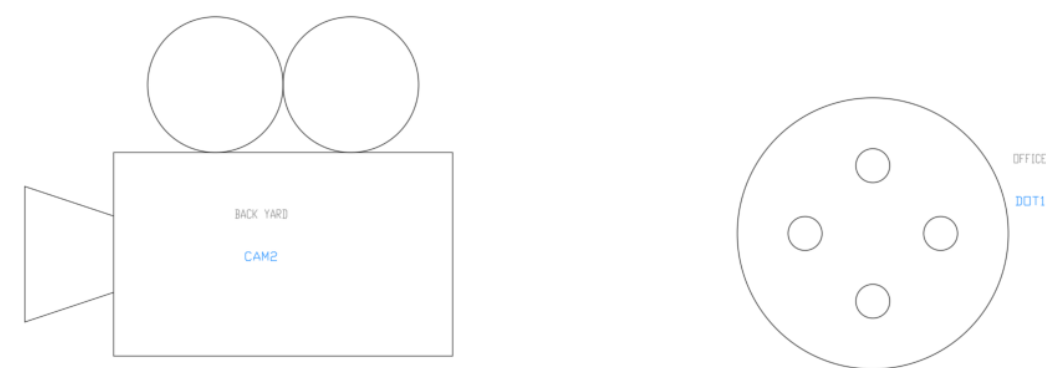
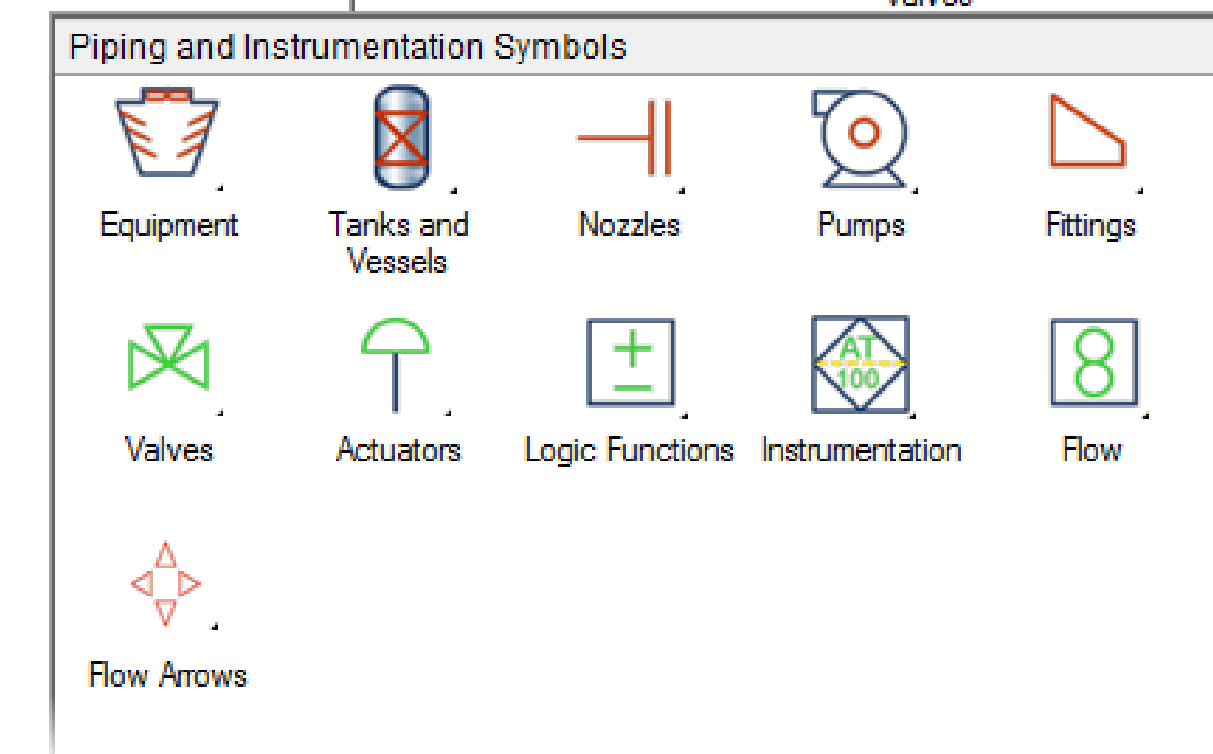
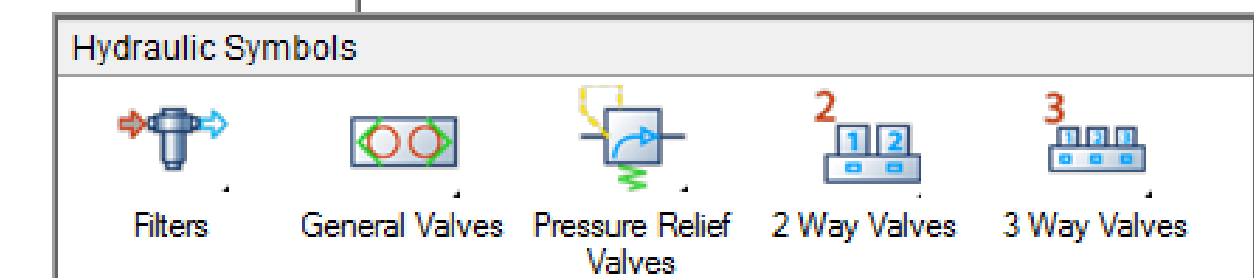
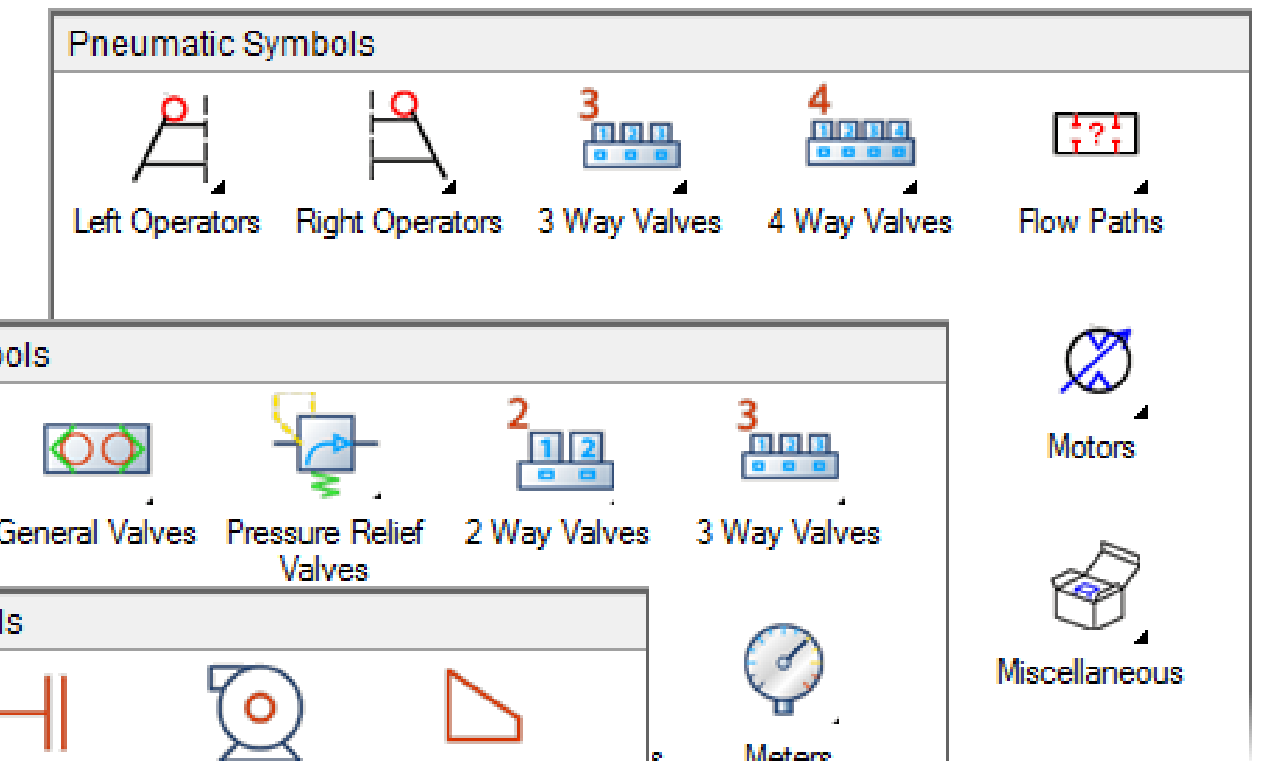
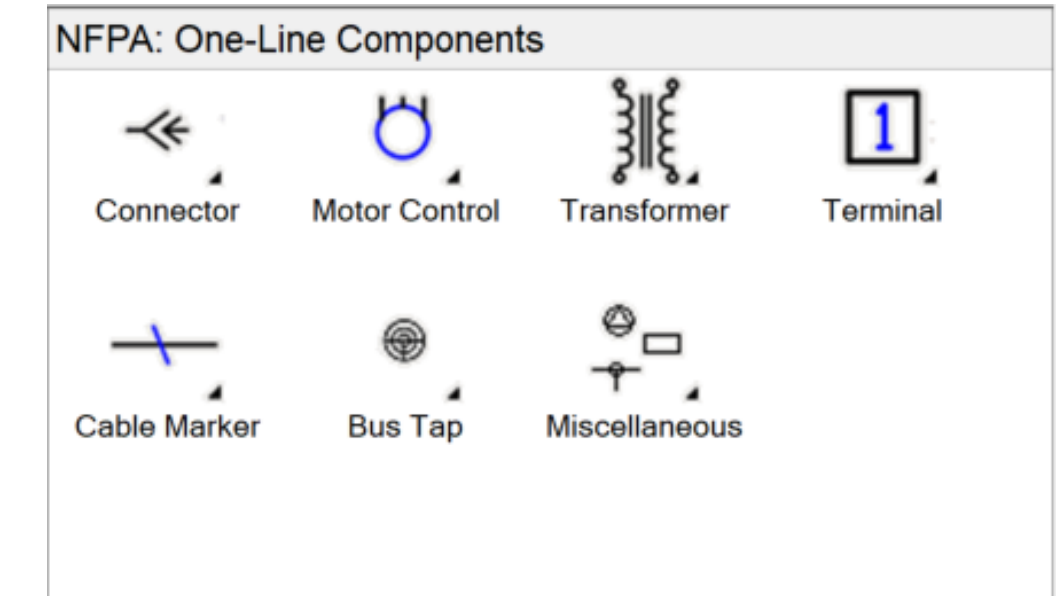







# Summary

- Described Peer Components, including One-line Symbols
- Showed how to access the symbol libraries
- Explained the WDTYPE and WDTAGALT attributes
- Linked Peer Components using TAG1 and WDTAGALT attributes
- Created new category types



TAG1 = SOL723



WDTAGALT = VAL7



# Any questions?

Please, please, please  
fill out class evaluations.

*Randy Brunette IM225070*

**Thank You**

**Remember,  
the correct  
answer is...**

**Awesome!**





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