

## Tips to make Connections in HyDraw A405

Below are some tips to help make good connections in HyDraw A405 with AutoCAD 2008/2009.

1. When the Auto Connect Option is selected from the Connections Menu in the HyDraw Drop Down Menu the connector changes to a cross hair and when this cross hair is moved over a connection point of a symbol, or an existing connection line we see one of three different colored dots at the centre of the cross hair.

(a) A Yellow dot (●), as shown in Fig-1, shows that the selection point is at one of the ports of a symbol and a safe connection can be made to a port of another symbol or existing connection line.

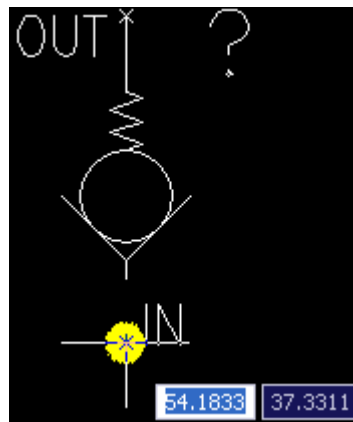


Fig-1

(b) A Green dot (●), as shown in Fig-2, shows that the selection point is on an existing connection line and a safe connection can be made. The connection can be made anywhere along a connection line. The green dot changes to white after the connection has been successfully completed.

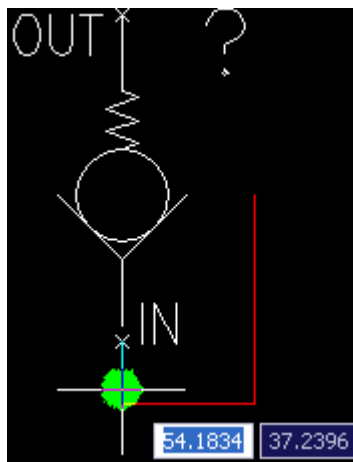


Fig-2

(c) A Red dot (●), as shown in Fig-3, shows that a connection may not be attempted from the selected point. In this case the connection was attempted on a port that was already connected.

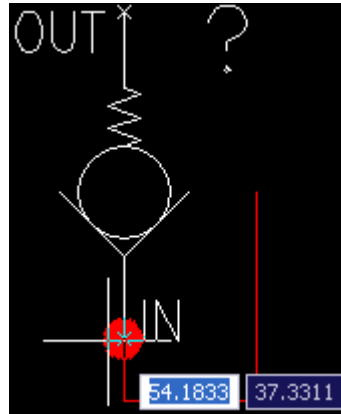


Fig-3

2. Avoid making connections where 2 or more connection lines intersect as shown in Fig-4. Such connections might result in breaking of connection lines, when the connection lines are stretched.

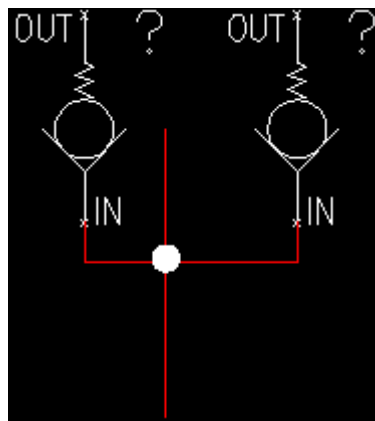


Fig-4

- When the Create Connection command is used from the drop down menu and a connection needs to be made from the P port on the D03 symbol to the IN port of the check valve as shown in Fig-5, first select the start point as P then terminate the connection such that the termination point is in line or follows the path (dotted line) of the IN port of the check valve and then complete the connection by selecting the IN port. This makes sure that the connection lines are straight.

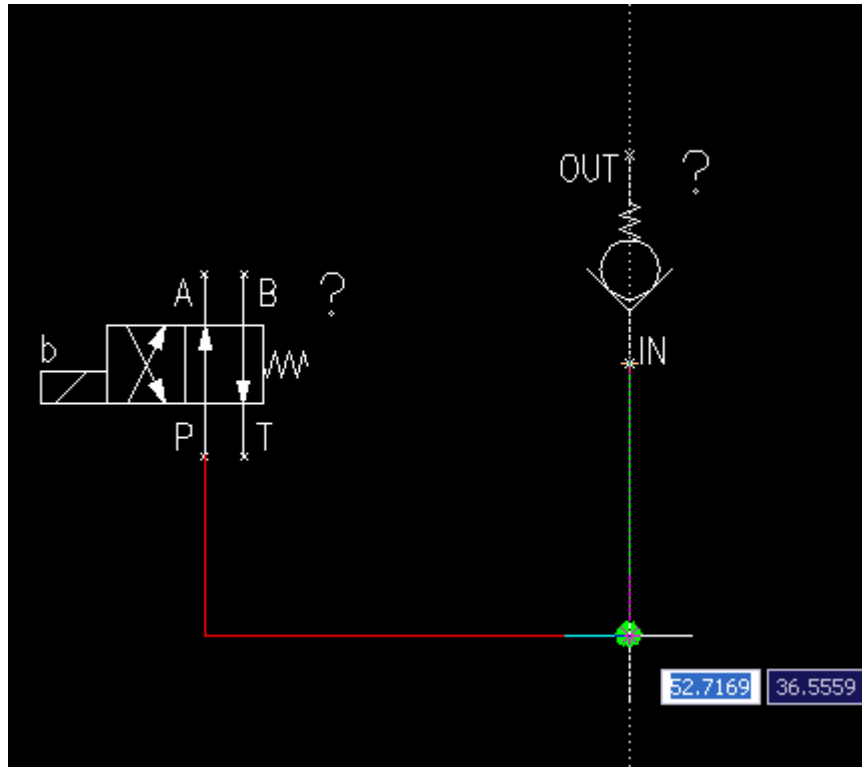


Fig-5

- After stretching connections lines, there may sometimes be unneeded connection dots left in the drawing. These may be deleted using the AutoCAD delete command.

- Broken Lines:** In the case of Fig-6, when we stretch the horizontal connection line either up or down, the connection line breaks as shown in Fig-7, and stretching the broken connection line as shown in Fig-8, either up or down will recreate the broken line to the newly stretched location as shown in Fig-9.

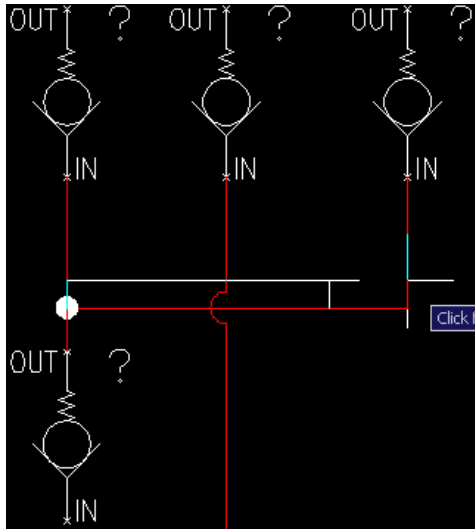


Fig-6

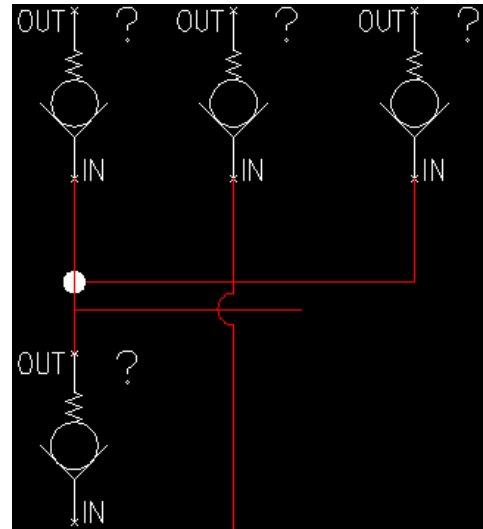


Fig-7

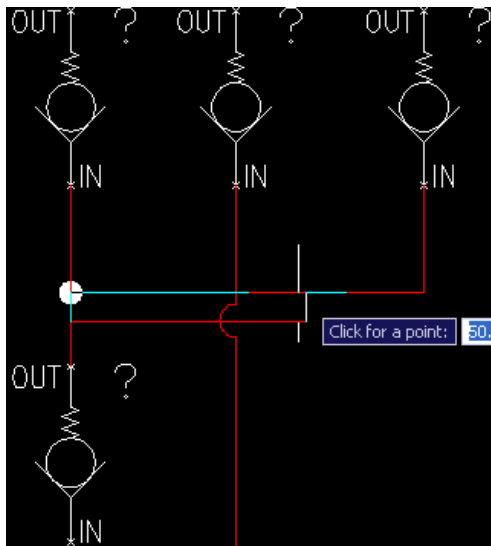


Fig-8

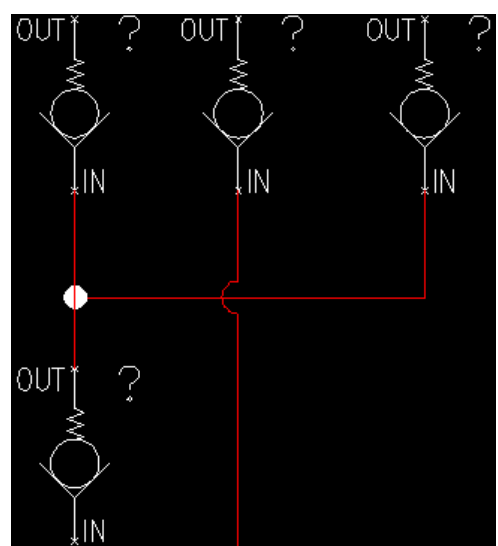


Fig-9

**Note:-** If a connection lines breaks, it is preferable to delete it, and recreate the connection.