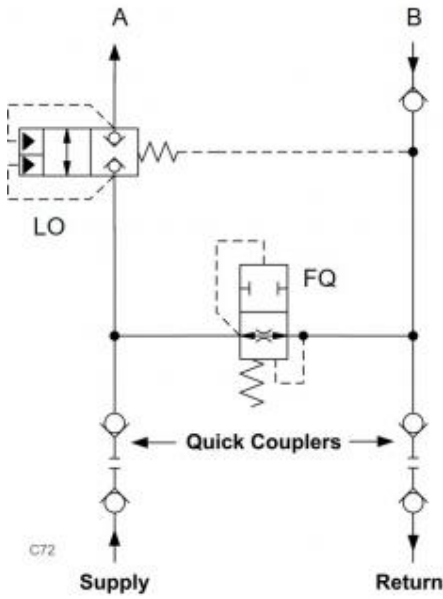


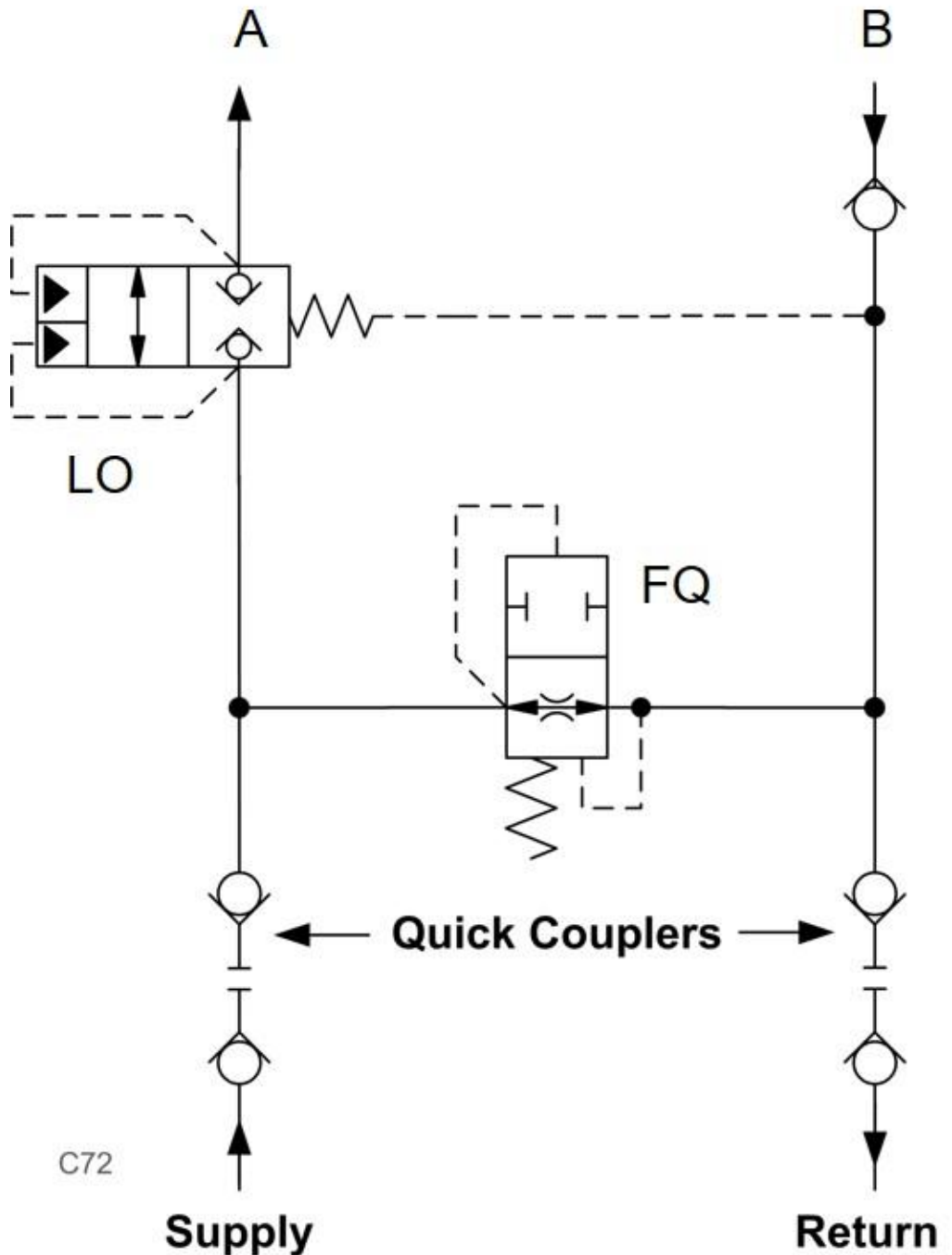
Prepared for :

Prepared by :

**Schematics**



**Summary**



**Related Products**

**Cartridges**

LOEC - Pilot-to-close, spring-biased closed, unbalanced poppet logic element with metering notches

FQCA - Fixed-orifice, flow fuse valve

The example shows a normally open logic element to block flow from supply to Port A before B is connected to return.

- **Normally closed logic element:** LO<sup>o</sup>C
- **Fixed orifice, flow fuse valve:** FQCA

Benefits of this circuit arrangement:

- When port A is connected, pressure builds up downstream of the flow fuse valve FQCA. The pressure blocks the logic valve preventing flow to Port A. After connecting port B to the return line, the pressure collapses and the logic valve fully opens.
- This circuit does not prevent ports A and B being connected to the incorrect line. This is normally addressed by using two different size quick couplers.
- The circuit also ensures that the return line is connected before port A sees pump pressure.