

# Installation Instructions for Field-Installed Pass-Throughs In a Flammable Liquid Safety Cabinet



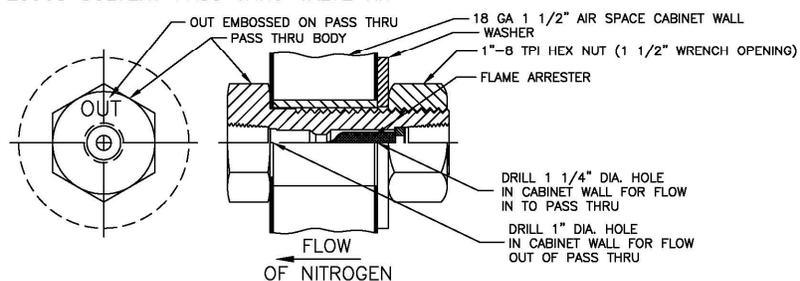
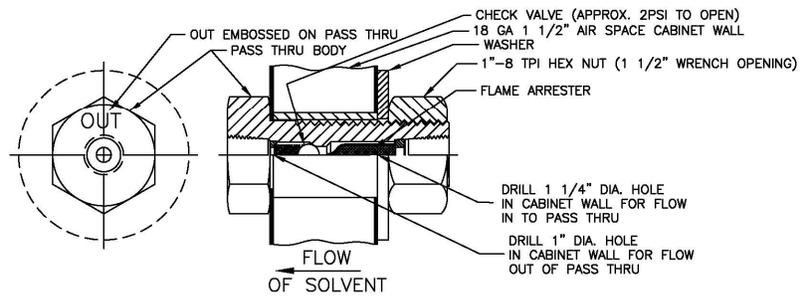
Note: Choose Justrite factory-installed pass-through(s) to maintain the FM approval, and our 10-year warranty, of the safety cabinets. Field-installed pass-through(s) will void the FM approval, and our warranty, of the safety cabinets.

Please read through the entire instructions before proceeding with this field installation.

- a. Identify the field locations of the:
  - Pass-through valve for solvents
  - Pass-through for nitrogen
- b. Identify each pass-through's flow direction:
  - Flow into the cabinet
  - Flow out of the cabinet

Use the diagrams to the right to identify the flow direction in the Pass Thru. Please plan your design carefully before drilling holes. Fabrication cannot be reversed if there is a mistake.

- c. As a failsafe precaution, pass-through(s) must be located above the container inside the cabinet. The Pass-through(s) and installed tubing should not allow fluid under gravity or siphon to drain from the container inside the cabinet to outside the cabinet.
- d. Pass thru locations are not permitted in cabinet door(s) and in top of cabinet.
- e. Centerline locations of the pass-through(s) on sides and back of cabinet should be located no closer than 6 inches to any edge to avoid interference with interior sidewalls of the cabinet.
- f. Determine the centerline location to drill holes. Use a pilot drill bit approximately 2" long to pass through both walls of the cabinet. Hold the pilot bit level and square to the wall of the cabinet.
- g. With the appropriate hole saw drill a hole through each wall. Where the "FLOW" is desired into the cabinet; drill a 1" diameter hole on the inside wall and a 1 1/4" hole on the outside wall of the cabinet. (see diagrams)
- h. If "FLOW" is desired to the outside of the cabinet drill a 1" diameter hole on the outside wall and a 1 1/4" hole on the inside wall of the cabinet. (see diagrams)
- i. Pass Thru(s) should be purged of any debris before use.



- NOTES:
- 1) USE 1/4" NPT MALE TAPPER FITTING TO CONNECT TO PASS THRU
  - 2) IN EACH FITTING'S CASE ESTABLISH IF YOU NEED THE FLOW TO THE OUTSIDE OF CABINET OR INSIDE OF THE CABINET.

Notes:

- 1) Pass-throughs are made of 316 stainless steel.
- 2) A 1/4" NPT (tapered) male fitting is required to thread into each side of the pass-through to make your tubing connections.
- 3) All containers stored in a cabinet for collecting/dispensing liquids need to be closed containers.
- 4) Container dispensing liquids in vacuum will need vacuum relief.
- 5) This system has been designed for the delivery of high purity solvents in approved bulk packages. Alternate applications should be reviewed by the owner's qualified engineer and w/ the authorities having jurisdiction to ensure safety. Justrite assumes no responsibility to persons or property for the misuse of these products.

Tools needed:

- 1) Drill w/ 1/2" chuck
- 2) Pilot drill bit 1/8" dia., 2" long to pass through both walls of cabinet
- 3) 1" dia. sheet metal hole saw w/pilot bit
- 4) 1 1/4" dia. sheet metal hole saw w/pilot bit
- 5) 1 1/2" open end wrench or adjustable crescent



Photo Courtesy Honeywell