

Here are some suggestions for creating inlet and outlet manifolds for fluidic devices.

**IDEX has many parts that work well with Luer fittings.**

[http://www.idex-hs.com/products/product\\_index.aspx](http://www.idex-hs.com/products/product_index.aspx)

1. Multi-port PEEK manifolds will let you dial to a particular line. All lines lead in. A typical part is P-150. I think there is just one line out which might be good for an outlet manifold.



2. Shut-off valves are basically stopcocks. Many could be mounted onto a board for connecting many input sources. Then you could simply open and close individual ones. A typical one is P-733



3. Luer-lok prime/purge valves can be added to the start of the input tubing so that when you take the syringe off, the line is shut. A typical one is V-321 which doesn't come up online. It is the one in the middle of this picture



4. You could install check valves in the input lines that have little balls inside. The balls stop backflow when you are exerting pressure in the lines from another source. CV3000 is a typical part number



5. IDEX also provides all sorts of Luer-lock attachments for connecting tubing to your syringes P-656 is a typical part for really small diameter tubing

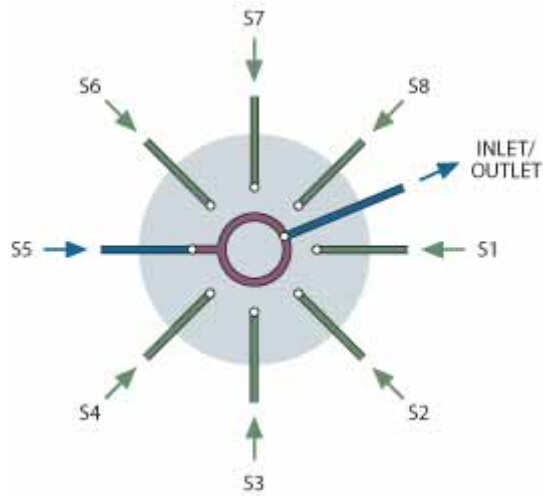


**VICI that makes Valco fittings** [http://www.vici.com/vfit/tcm\\_intro.php](http://www.vici.com/vfit/tcm_intro.php)

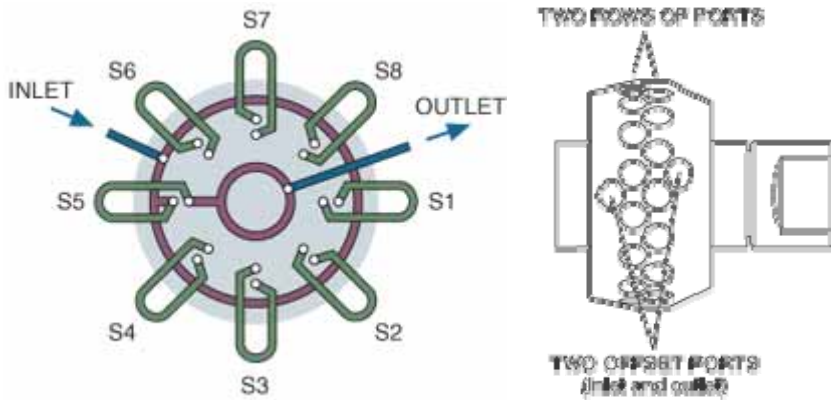
1. They offer PEEK or stainless steel manifolds with so many inlet and outlet ports that you could cover any number of combinations (4 to 16 inlets to a single outlet stream). They are less simple, perhaps for the next phase of design.



2. They also provide injector/selectors (manifolds) that dial between input lines that all lead into the circle. Just what you may be looking for! <http://www.vici.com/vval/sd.php> The one showed below, just closes the lines to that are not being used.



3. Another type, the trapping selector ST keep a loop of sample ready to be shot in if you want to push known volumes through in a more refined device. <http://www.vici.com/vval/st.php>



4. They also provide stainless steel Luer adapters to connect syringe to tubing [http://www.vici.com/vfit/fem\\_luer.php](http://www.vici.com/vfit/fem_luer.php)



And the Lee Company has electro-controlled valves that you could program down the road <http://www.theleeco.com/products.cfm>

