CLAIMS

What is claimed is:

1. An apparatus, comprising:

a valve housing with internal flow pathways for flowing fluids therein;

end caps on either end of the valve housing;

posts that extend between the end caps; ~~and~~

fasteners disposed on one end of the posts~~,~~;

a pair of balanced valves disposed in the valve housing; and

elongated rods disposed in the slots and coupled to each of the pair of balanced valves,

wherein tightening the fasteners applies compressive forces onto either end of the valve housing.

2. The apparatus of claim 1, further comprising:

an alignment rod that prevents rotation of the valve housing relative to the end caps.

3. The apparatus of claim 1, further comprising:

a detent in the valve housing; and

an alignment rod that resides in the detent and engages with each of the end caps.

4. The apparatus of claim 1, wherein the valve housing comprises a plurality of individual pieces forming a stack.

5. The apparatus of claim 1, further comprising:

diaphragms disposed between parts of the valve housing.

6. The apparatus of claim 1, wherein one of the end caps has internal flow pathways that fluidly couple with internal chambers of the valve housing.

7. The apparatus of claim 1, wherein one of the end caps includes a boss protrusion with a notched cut-out.

8. The apparatus of claim 1, ~~further comprising:~~ wherein the

~~a~~ pair of balanced valves coupled to each other. ~~and disposed in the valve housing.~~

9. The apparatus of claim 1, further comprising:

a manifold with a no-bleed valve coupled to the valve housing.

~~a pair of balanced valves disposed in the valve housing;~~

~~elongate slots disposed in part of the valve housing; and~~

~~elongate rods disposed in the slots and coupled to each of the pair of balanced valves.~~

~~10. The apparatus of claim 1, further comprising:~~

~~a manifold with a no-bleed valve coupled to the valve housing.~~

~~11. A valve control, comprising:~~

~~a valve unit that comprises separable cylindrical members forming a stack;~~

~~a pair of valves disposed in the stack and operable to control flow of fluid between the separable cylindrical members; and~~

~~a support unit that comprises a pair of end caps disposed in contact with opposite ends of the stack,~~

~~wherein loading the pair of end caps generates a compression force to squeeze the separable cylindrical members together.~~

~~12. The valve control of claim 11, further comprising:~~

~~elongate posts that engage with apertures on the end caps; and~~

~~fasteners disposed on the elongate posts that are operable to generate the compression force.~~

~~13. The valve control of claim 11, further comprising:~~

~~a manifold removably replaceable from a recess in the separable cylindrical members,~~

~~wherein flow pathways allow fluid to flow from the manifold into the separable cylindrical members.~~

~~14. The valve control of claim 11, further comprising:~~

~~annular slots in the stack between separable cylindrical members that are adjacent to one another; and~~

~~diaphragms disposed inside of the stack near the annular slots, the diaphragms adapted to move in response to pressure of fluid flowing inside of the separable cylindrical members.~~

~~15. The valve control of claim 11, further comprising:~~

~~a detent in each of the separable cylindrical members; and~~

~~an alignment rod that engages with the detent to clock the separable cylindrical members with one another and with the pair of end caps.~~

~~16. A system, comprising:~~

~~a control valve with a pneumatic actuator; and~~

~~a valve control comprising a stack of cylindrical members, moveable valve components disposed inside of the stack of cylindrical members, and a fastening mechanism that creates compressive forces to ends of the stack of cylindrical members,~~

~~wherein the moveable components are operable to regulate flow of a first inlet gas into the valve control to cause the pneumatic actuator to move in response to pressure of a second inlet gas in to the valve control.~~

~~17. The system of claim 16, further comprising:~~

~~a manifold disposed on the valve control, the manifold receiving the first inlet gas.~~

~~18. The system of claim 16, further comprising:~~

~~a manifold disposed on the valve control, the manifold comprising a no-bleed valve.~~

~~19. The system of claim 16, further comprising:~~

~~a mounting plate with slots, wherein the fastening mechanism can receive fasteners that attach the control valve to the mounting plate.~~

~~20. The system of claim 16, wherein the valve control is operable to allow gas to exhaust from the stack of cylindrical members in response to movement of the moveable valve components.~~