We claim:

1. A control system for a subterranean tool, comprising:

a multi-component housing having a movable member therein;

at least one hydraulically actuated double acting rod piston in a piston bore in said housing and connected to said movable member;

said piston bore fully disposed in a single component of said housing.

2. The system of claim **1**, wherein:

said piston comprises a seal that divides said piston bore into a first and a second variable volume components;

access into one of said volume components is through said single component of said housing.

3. The system of claim **2**, wherein:

said housing comprises a passage therein with a sleeve disposed therein to define an annular space therebetween;

said annular space leading to a passage through said single component and into one of said variable volume components of said piston bore.

4. The system of claim **3**, wherein:

said housing comprises a first hydraulic connection leading to an annular space in a wall of said housing and communicating with said first variable volume component of said piston bore.

5. The system of claim **4**, wherein:

said housing comprises a second hydraulic connection leading to said annular space defined by said sleeve and to said second variable volume component of said piston bore.

6. The system of claim **5**, wherein:

said single housing component contains a radial passage connecting said annular space to said second variable volume component of said piston bore.

7. The system of claim **6**, wherein:

said annular space comprises opposed end seals to communicate pressure applied to said second hydraulic connection through said annular space and said radial passage and into said second variable volume component of said piston bore.

8. The system of claim **1**, wherein:

said movable member is a slide that operates a ball between an open and a closed position in a passage in said housing.

9. The system of claim **1**, wherein:

said at least one hydraulically actuated double acting piston comprises a plurality of pistons each in its own bore where all said piston bores are in a wall of a single component of said housing.

10. The system of claim **9**, wherein:

all said piston bores are in fluid communication on a first side of the respective pistons in said bores through a first connection on the exterior of said housing;

all said piston bores are in fluid communication on a second side of the respective pistons in said bores through a second connection on the exterior of said housing.

11. The system of claim **10**, wherein:

said first and second connections are in an adjacent housing component to said single component that houses said piston bores.

12. The system of claim **11**, wherein:

said first connection in communication with an annular chamber defined between said single and adjacent housing components that is also in fluid communication with a first side of all said pistons in said piston bores.

13. The system of claim **12**, wherein:

said second connection communicating with a sealed passage in said housing that leads to said second side of all said pistons in said piston bores.

14. The system of claim **13**, wherein:

said sealed passage is an annular passage defined between a sleeve in a bore in said single and adjacent housing components.

15. The system of claim **14**, wherein:

said single housing component comprises a bore from said sealed passage to each of said second sides of said pistons in said piston bores.

16. The system of claim **9**, wherein:

all said piston bores are disposed parallel to each other in the wall of said single housing component.

We claim:

1. A control system for a subterranean tool, comprising:

a multi-component housing having a passage therethrough and a movable member in said passage;

at least one hydraulically actuated double acting rod piston in a piston bore in a wall of said housing, said bore having exterior housing connections communicating said bore to opposed sides of said piston and operably connected to said movable member for selective opening and closing of said passage with pressure from a surface location applied to said connections;

said piston bore fully disposed in the wall of a single component of said housing.

2. The system of claim **1**, wherein:

said piston comprises a seal that divides said piston bore into a first and a second variable volume components;

access into one of said volume components is through said single component of said housing.

3. A control system for a subterranean tool, comprising:

a multi-component housing having a movable member therein;

at least one hydraulically actuated double acting rod piston in a piston bore in said housing and connected to said movable member;

said piston bore fully disposed in a single component of said housing;

said piston comprises a seal that divides said piston bore into a first and a second variable volume components;

access into one of said volume components is through said single component of said housing;

said housing comprises a passage therein with a sleeve disposed therein to define an annular space therebetween;

said annular space leading to a passage through said single component and into one of said variable volume components of said piston bore.

4. The system of claim **3**, wherein:

said housing comprises a first hydraulic connection leading to an annular space in a wall of said housing and communicating with said first variable volume component of said piston bore.

5. The system of claim **4**, wherein:

said housing comprises a second hydraulic connection leading to said annular space defined by said sleeve and to said second variable volume component of said piston bore.

6. The system of claim **5**, wherein:

said single housing component contains a radial passage connecting said annular space to said second variable volume component of said piston bore.

7. The system of claim **6**, wherein:

said annular space comprises opposed end seals to communicate pressure applied to said second hydraulic connection through said annular space and said radial passage and into said second variable volume component of said piston bore.

8. A control system for a subterranean tool, comprising:

a multi-component housing having a passage therethrough and a movable member in said passage;

at least one hydraulically actuated double acting rod piston in a piston bore in a wall of said housing and operably connected to said movable member for selective opening and closing of said passage;

said piston bore fully disposed in the wall of a single component of said housing;

said movable member is a slide that operates a ball between an open and a closed position in a passage in said housing.

9. The system of claim **1**, wherein:

said at least one hydraulically actuated double acting piston comprises a plurality of pistons each in its own bore where all said piston bores are in a wall of the ~~a~~ single component of said housing.

10. A control system for a subterranean tool, comprising:

a multi-component housing having a movable member therein;

at least one hydraulically actuated double acting rod piston in a piston bore in said housing and connected to said movable member;

said piston bore fully disposed in a single component of said housing;

said at least one hydraulically actuated double acting piston comprises a plurality of pistons each in its own bore where all said piston bores are in a wall of the ~~a~~ single component of said housing;

all said piston bores are in fluid communication on a first side of the respective pistons in said bores through a first connection on the exterior of said housing;

all said piston bores are in fluid communication on a second side of the respective pistons in said bores through a second connection on the exterior of said housing.

11. The system of claim **10**, wherein:

said first and second connections are in an adjacent housing component to said single component that houses said piston bores.

12. The system of claim **11**, wherein:

said first connection in communication with an annular chamber defined between said single and adjacent housing components that is also in fluid communication with a first side of all said pistons in said piston bores.

13. The system of claim **12**, wherein:

said second connection communicating with a sealed passage in said housing that leads to said second side of all said pistons in said piston bores.

14. The system of claim **13**, wherein:

said sealed passage is an annular passage defined between a sleeve in a bore in said single and adjacent housing components.

15. The system of claim **14**, wherein:

said single housing component comprises a bore from said sealed passage to each of said second sides of said pistons in said piston bores.

16. A control system for a subterranean tool, comprising:

a multi-component housing having a movable member therein;

at least one hydraulically actuated double acting rod piston in a piston bore in said housing and connected to said movable member;

said piston bore fully disposed in a single component of said housing;

said at least one hydraulically actuated double acting piston comprises a plurality of pistons each in its own bore where all said piston bores are in a wall of the ~~a~~ single component of said housing;

all said piston bores are disposed parallel to each other in the wall of said single housing component.