What is claimed is:

1. An apparatus for overriding a valve actuator to move a valve stem from a first position to a second position, the apparatus comprising:

an override body with a central axis, the override body having a connector for releasably securing the override body to the valve actuator;

a piston located within the override body;

a bushing non-rotatably carried within the override body; and

an override shaft in threaded engagement with the bushing and extending through a sealed orifice in the override body; wherein

fluid pressure applied to the piston to cause the end surface of the bushing to engage a separate actuator stem of the valve actuator and push the valve stem, and alternately, rotation applied to the override shaft causes the bushing to move linearly so that the bushing moves axially away from the piston and the end surface of the bushing engages the actuator stem of the valve actuator and pushes the valve stem.

2. The apparatus of claim 1, wherein:

the override body has an inner cavity with at least one axially extending guide slot within the inner cavity; and

the bushing has at least one anti-rotation pin that extends into one of the at least one guide slot to prevent relative rotational movement between the bushing and the override body.

3. The apparatus of claim 1, wherein:

the bushing has an axially extending receptacle with internal threads; and

the override shaft has an end with external threads that mate with the internal threads of the receptacle so that rotation of the override shaft is translated to axial movement of the bushing.

4. The apparatus of claim 1, wherein:

the bushing has an axially extending receptacle with internal threads; and

the override shaft has external threads that extend along a length of the override shaft generally equal to a depth of the receptacle.

5. The apparatus of claim 1, further comprising a port extending through the override body for selectively injecting a pressure media into the override body to apply fluid pressure to the piston.

6. The apparatus of claim 1, wherein the override shaft extends through a central opening of the piston, the piston further having:

an outer diameter that engages an inner diameter of the override body;

a circular piston inner diameter seal located between the central opening of the piston and the override shaft; and

a circular piston outer diameter seal located between the outer diameter of the piston the inner diameter of the override body.

7. The apparatus of claim 1, further comprising an annular hub having external threads engaging internal threads of the override body, the annular hub having the connector for releasably connecting the override body to the valve actuator.

8. An apparatus for overriding a valve actuator to move a valve stem from a first position to a second position, the apparatus comprising:

an override body with a central axis, the override body having an inner cavity with an open end, a closed end, and a connector at the open end of the override body for releasably securing the override body to the valve actuator;

a bushing located within the inner cavity, the bushing being axially moveable within the inner cavity and being restrained against rotational movement relative to the override body, the

bushing further having axially extending threads, and an end surface facing the open end of the override body for selectively engaging a separate actuator stem of the valve actuator within the override body;

a piston located within the inner cavity, the piston being movable relative to the bushing and having:
an outer diameter that engages an inner diameter of the inner cavity,

a central opening extending axially through the piston, and

a pressure surface facing the closed end of the override body;

a port extending through the override body for transferring a pressure media into the inner cavity between the pressure surface of the piston and the closed end of the override body; and

an override shaft extending through the central opening of the piston, the override shaft having a first end that passes through an orifice in the closed end of the override body and a second end with threads that for mating with the threads of the bushing, wherein the threads of the override shaft mate with the threads of the bushing so that rotation of the override shaft is translated to axial movement of the bushing.

9. The apparatus of claim 8, wherein the bushing has an axially extending receptacle open towards the closed end of the override body and the threads of the bushing are internal threads located within the receptacle.

10. The apparatus of claim 8, wherein the override shaft has a circumferential flange with a shoulder for engaging the pressure surface of the piston and limiting relative axial movement between the override shaft and the piston.

11. The apparatus of claim 8, further comprising an annular retainer ring with an inner edge engaging the override shaft and an outer edge engaging the piston for limiting relative axial movement between the override shaft and the piston.

12. The apparatus of claim 8, wherein when the override shaft is in an extended position, the threads of the override shaft mate with the threads of the bushing to prevent movement of the override shaft towards a contracted position by forces applied by the valve actuator on the bushing.

13. The apparatus of claim 8, wherein the override body has a connector proximate the open end of the override body for releasably connecting the override body to the valve actuator.

14. The apparatus of claim 8, further comprising a circular stem seal located between the orifice in the closed end of the override body and the override shaft for creating a pressure and fluid seal between the override body and the override shaft.

15. The apparatus of claim 8, further comprising a circular piston inner diameter seal located between the central opening of the piston and the override shaft for creating a pressure and fluid seal between the piston and the override shaft.

16. The apparatus of claim 8, further comprising a circular piston outer diameter seal located between the outer diameter of the piston the inner diameter of the inner cavity for creating a pressure and fluid seal between the piston and the inner cavity.

17. The apparatus of claim 8, wherein:

the inner cavity has at least one axially extending guide slot; and

the bushing has at least one anti-rotation pin that extends into one of the at least one guide slot to prevent relative rotational movement between the bushing and the override body.

18. The apparatus of claim 17, wherein each guide slot extends through a side wall of the inner cavity for selectively viewing the anti-rotation pins to determine the location of the bushing.

19. A method for overriding a valve actuator to move a valve stem from a first position to a second position, the method comprising:

(a) providing an override assembly, the override assembly having an override body with a central axis, a piston located within the override body, a bushing non-rotatably carried within

the override body, and an override shaft in threaded engagement with the bushing and extending through a sealed orifice in the override body;

(b) releasably connecting the override assembly to the valve actuator; and

(c) applying a fluid pressure to the piston to cause an end surface of the bushing to engage a separate actuator stem of the valve actuator and push the valve stem, and alternately, applying a rotation to the override shaft to cause the bushing to move linearly so that the bushing moves axially away from the piston and the end surface of the bushing engages the actuator stem of the valve actuator and pushes the valve stem.

20. The method of claim 19, wherein step (c) includes applying a fluid pressure to the piston by injecting a pressure media into the override body through a port extending through the override body, and alternatively, applying a rotation to the override shaft with a hand wheel.