What is claimed is:

1. A method of selectively opening and closing a valve positioned at a subterranean location in a wellbore, comprising the steps of: providing a tubing string; providing the valve having a valve element movable between an open position and a closed position; connecting the valve in the tubing string to block and permit flow between the interior and exterior of the tubing string and positioning the valve in the wellbore at the subterranean location; moving the valve element between the closed position and the open position by rotating the tubing string while engaging teeth with threads located on the valve a first direction; and raising and lowering the tubing string to pump fluid into a chamber to move the valve element to the closed position.

2. The method of claim 1, wherein rotation in the first direction is clockwise rotation.

3. The method of claim 1, wherein the valve comprises a tubular body with a port in a wall of the body and wherein the step of moving the valve element comprises moving the valve element to open the port.

4. The method of claim 1, wherein the valve comprises a tubular body with a port in the body wall and wherein the step of moving the valve element to the closed position comprises moving the valve element to block the port.

5. The method of claim 1, wherein the step of providing a tubing string comprises providing spaced packers in the tubing string.

6. The method of claim 5, additionally comprising the step of setting the packers to isolate a segment of the wellbore.

7. The method of claim 6, additionally comprising the step of measuring the pressure in the isolated segment of the wellbore and thereafter moving the valve element.

8. The method of claim 1, wherein the step of rotating the tubing string comprises rotating the string in excess of a full revolution.

9. The method of claim 1, wherein the valve element moving steps each comprise moving the valve element axially in the valve.

10. A valve for use in a tubing string extending to a subterranean location in a wellbore for connecting and disconnecting the interior of the tubing string with the surrounding wellbore, comprising: a tubular-shaped body, a passageway in the body between the exterior and interior of the body, means on the body for connecting the body to the tubing string with the body's interior

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in fluid communication with the tubing string; a valve element mounted in the body's interior for movement between closed positions blocking flow through the passageway and open positions permitting flow through the passageway; a valve actuator mounted on the body for moving the element between positions by rotating the tubing string in a first direction; and the valve actuator additionally comprising a piston reciprocally mounted in a chamber and a pump on the body actuated by lifting and then lowering the tubing string to pump fluid into the piston chamber to move the actuator to a closed position.

11. The valve according to claim 10, where in the valve actuator comprises teeth engaging threads, with the teeth and threads operably connected to the tubing string to rotate with respect to each other whereby the valve element is caused to translate axially in the valve.

12. The valve according to claim 10, wherein the pump is operably connected to reciprocate with the tubing string and comprises a piston pump.

13. The valve according to claim 10, wherein the body has a passageway extending axially therethrough.

14. The valve according to claim 10, wherein the connection means comprises threads on the valve element.

15. The valve according to claim 10, wherein the passageway in the tubular shaped body comprises a port in the body wall.

16. The valve according to claim 10, wherein the valve element comprises a tubular body with a port in the wall of the valve element.

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What is claimed is:

1. A method of selectively opening and closing a valve positioned at a subterranean location in a wellbore, comprising the steps of:

providing a tubing string;

providing the valve having a valve element movable between an open position and a closed position;

connecting the valve in the tubing string to block and permit flow between the interior and exterior of the tubing string and positioning the valve in the wellbore at the subterranean location;

moving the valve element between the closed position and the open position by rotating the tubing string in a first direction while engaging teeth with threads, the threads being located on the valve element; and

raising and lowering the tubing string to pump fluid into a chamber to move the valve element to the closed position.

2. The method of claim 1, wherein rotation in the first direction is clockwise rotation.

3. The method of claim 1, wherein the valve comprises a tubular body with a port in a wall of the body and wherein the step of moving the valve element comprises moving the valve element to open the port.

4. The method of claim 1, wherein the valve comprises a tubular body with a port in the body wall and wherein the step of moving the valve element to the closed position comprises moving the valve element to block the port.

5. The method of claim 1, wherein the step of providing a tubing string comprises providing spaced packers in the tubing string.

6. The method of claim 5, additionally comprising the step of setting the packers to isolate a segment of the wellbore.

7. The method of claim 6, additionally comprising the step of measuring the pressure in the isolated segment of the wellbore and thereafter moving the valve element.

8. The method of claim 1, wherein the step of rotating the tubing string comprises rotating the string in excess of a full revolution.

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9. The method of claim 1, wherein the valve element moving steps each comprise moving the valve element axially in the valve.

10. A valve for use in a tubing string extending to a subterranean location in a wellbore for connecting and disconnecting the interior of the tubing string with the surrounding wellbore, comprising:

a tubular-shaped body, a passageway in the body between the exterior and interior of the body, means on the body for connecting the body to the tubing string with the body's interior in fluid communication with the tubing string;

a valve element mounted in the body's interior for movement between closed positions blocking flow through the passageway and open positions permitting flow through the passageway;

a valve actuator mounted on the body for moving the valve element between positions by rotating the tubing string in a first direction; and

the valve actuator additionally comprising a piston reciprocally mounted in a chamber and a pump on the body actuated by lifting and then lowering the tubing string to pump fluid into the piston chamber to cause the actuator to move the valve element to the closed position.

11. The valve according to claim 10, where in the valve actuator comprises teeth engaging threads, with the teeth and threads operably connected to the tubing string to rotate with respect to each other whereby the valve element is caused to translate axially in the valve.

12. The valve according to claim 10, wherein the pump is operably connected to reciprocate with the tubing string and comprises a piston pump.

13. The valve according to claim 10, wherein the body has a passageway extending axially therethrough.

14. The valve according to claim 10, wherein the connection means comprises threads on the valve element.

15. The valve according to claim 10, wherein the passageway in the tubular shaped body comprises a port in the body wall.

16. The valve according to claim 10, wherein the valve element comprises a tubular body with a port in the wall of the valve element.

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