housing 66. A lip 74 is formed on the side surface 72 for holding the upper valve plate O-ring 82 in its correct position.

An upper flow guide 76 and the upper valve plate 78, having a circumferential groove, both fit within the water flow chamber 67. The valve aO-ring 82 is held securely into the upper valve plate by the undercut. The larger diameter of the water filter washer base 83 fits tightly onto the smaller diameter of the upper valve plate 78 fits to create a water tight seal against the inner diameter of the threaded adaptor 91 and the threads on the inner part of the cylindrical housing 66. The valve stem 85 has an enlarged end 88 which snaps into 76 and holds the parts 85, 82, 78 and 76 together. The angled surface 86 of the valve stem 85 seals against the inside of aO-ring 82 to provide for a reduction of water flow when the valve 60 is closed, thereby reducing water hammer. As water pressure increases the valve stem 85 is pressed deeper onto the O-ring 82 causing the valve stem 85 to seal against the underside of the valve 88 creating a double seal.

At the opposite end of the valve stem 85 is a valve base 84. The valve base 84 interfaces with the rod head 63 such that when the rod 62 is displaced, the edge of the rod head 63 pushes against the valve base 84 and lifts the valve stem 85 out of its seat on the upper valve plate 78, thereby allowing water to flow. The lip 74 of the water flow chamber 67 interfaces with the outer edge of the upper valve plate 78.

The top end of the rod activated valve 60 has a threaded adaptor 91 with threads 90 for attaching the cylindrical housing 66 and threads 70 for mating with the threads of a threaded faucet (not shown). A recessed washer 92 fits within a recess 94 at the top end of the threaded adaptor 91. By fitting the recessed washer 92 in a recess 94, the recessed washer 92 is held in position while the rod activated valve 60 is installed into a faucet spout.

Referring to **FIGS. 7A-7D**, in addition to automatically shutting-off water, when pressure is released from the rod 62, a water filter element 80 will prevent any particle larger than the filter mesh from passing through the filter and moving through the rod activated water valve 60 and ending up in the drinking water. The stainless steel filter mesh, or other filter material, will block particles larger than the mesh used from passing through the water control and being unknowingly added into drinking water.

housing 66. A lip 74 is formed on the side surface 72 for holding the upper valve plate O-ring 82 in its correct position.

An upper flow guide 76 and the upper valve plate 78, having a circumferential groove, both fit within the water flow chamber 67. The valve O-ring 82 is held securely into the upper valve plate by the undercut. The larger diameter of the water filter washer base 83 fits tightly onto the smaller diameter of the upper valve plate 78 fits to create a water tight seal against the inner diameter of the threaded adaptor 91 and the threads on the inner part of the cylindrical housing 66. The valve stem 85 has an enlarged end 88 which snaps into 76 and holds the parts 85, 82, 78 and 76 together. The angled surface 86 of the valve stem 85 seals against the inside of O-ring 82 to provide for a reduction of water flow when the valve 60 is closed, thereby reducing water hammer. As water pressure increases the valve stem 85 is pressed deeper onto the O-ring 82 causing the valve stem 85 to seal against the underside of the valve 88 creating a double seal.

At the opposite end of the valve stem 85 is a valve base 84. The valve base 84 interfaces with the rod head 63 such that when the rod 62 is displaced, the edge of the rod head 63 pushes against the valve base 84 and lifts the valve stem 85 out of its seat on the upper valve plate 78, thereby allowing water to flow. The lip 74 of the water flow chamber 67 interfaces with the outer edge of the upper valve plate 78.

The top end of the rod activated valve 60 has a threaded adaptor 91 with threads 90 for attaching the cylindrical housing 66 and threads 70 for mating with the threads of a threaded faucet (not shown). A recessed washer 92 fits within a recess 94 at the top end of the threaded adaptor 91. By fitting the recessed washer 92 in a recess 94, the recessed washer 92 is held in position while the rod activated valve 60 is installed into a faucet spout.

Referring to **FIGS. 7A-7D**, in addition to automatically shutting-off water, when pressure is released from the rod 62, a water filter element 80 will prevent any particle larger than the filter mesh from passing through the filter and moving through the rod activated water valve 60 and ending up in the drinking water. The stainless steel filter mesh, or other filter material, will block particles larger than the mesh used from passing through the water control and being unknowingly added into drinking water.

What is claimed is:

1. An apparatus comprising:

a water flow chamber having a solid cylindrical outer surface, the water flow chamber having a substantially flat foraminous surface at one end, an aperture located substantially central to the flat foraminous surface, a water flow chamber top edge having a lip, the one end of the water flow chamber held within the cylindrical valve housing by the lip;

a rod having a rod head at one end, the rod passing through the aperture and held in place by the rod head;

an upper flow guide, upper valve plate and an upper valve plate o-ring, the upper flow guide having water flow openings, the upper flow guide and upper valve plate held within the water flow chamber, the upper valve plate interfacing within the lip of the water flow chamber, the upper flow guide and the upper valve plate having a valve aperture;

a valve stem fitted within the valve aperture, the valve stem having an enlarged end, an angled body and a valve base end; the enlarged end of the valve stem and the upper valve plate selectively block a flow of water through the valve aperture; wherein said valve plate o-ring fits into the opening in the upper valve plate and is held securely into position by an undercut groove in the upper valve plate; whereas the valve base interfaces with the rod head such that lateral movement of the rod displaces the rod head, thereby pushing upward on the valve base resulting in the valve stem lifting thereby enabling a flow of water between the valve stem and the valve aperture;

a water filter element configured to block particles from passing thorough the water flow chamber; wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat; and said water filter element is configured to allow the valve stem to freely move up and down, and said water filter element forms a seal against the upper valve plate and the cylindrical valve.

2. The apparatus of Claim 1, wherein said water filter element has a configured

portion and said configured portion is substantially pyramid, or coned shaped.

3. The apparatus of Claim 2, wherein said configured portion of the filter element is made from a stainless steel mesh.

4. The apparatus Claim 2, further comprising a means to provide continuous water flow without providing pressure to the rod.

5. The apparatus of Claim 4, wherein the aperture is substantially rounded with opposite notches to receive the head of the rod.

6. The apparatus of Claim 5, wherein the rod includes a plurality of outwardly projecting tabs configured to fit into said notches.

7. The apparatus of Claim 1, wherein a top end of the valve base includes a recess for capturing a recessed washer.

8. A rod activated water valve apparatus comprising:

a valve base, a top end of the valve base being threaded on an outside surface for mating with a water faucet thread arrangement, a second end of the valve base having a threaded outside surface;

a water flow chamber having a solid cylindrical outer surface, the water flow chamber having a substantially flat foraminous surface at one end, an aperture located substantially central to the flat foraminous surface having a lip on a top edge of the water flow chamber, said water flow chamber including a water filter element configured to block particles from passing thorough the water flow chamber;

a rod having a rod head at one end, the rod passing through the aperture and held within the aperture by the rod head; and

a water filter element configured to block particles from passing thorough the water flow chamber; wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat; and said water filter element is configured to allow the valve stem to freely move up and down, and said water filter element forms a seal against the upper valve plate and the cylindrical valve.

9. The apparatus of Claim 8, wherein said water filter element is configured to allow the valve stem to freely move up and down.

10. The apparatus of Claim 8, wherein said water filter element forms a seal against the upper valve plate and the cylindrical valve housing.

11. The apparatus of Claim 8, wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat.

12. The apparatus of Claim 8, wherein said water filter element has a configured portion and said configured portion is substantially pyramid, or coned shaped.

13. The apparatus of Claim 12, wherein said configured portion of the filter element is made from a stainless steel mesh.

14. The apparatus of Claim 13, wherein said configured portion of the filter element is made from a stainless steel mesh or other filter material.

15. The apparatus of Claim 8, wherein the means for selectively blocking the flow of water includes a valve seat having an upper valve plate, a upper valve plate ~~a~~o-ring and a upper flow guide, the upper valve plate and a upper flow guide held within the water flow chamber, the upper valve plate held in the lip of the water flow chamber, a groove of the upper valve plate fitting within the second end of the valve base, the upper flow guide and the upper valve plate having a valve aperture, wherein the upper flow guide has a foraminous surface for passing water from the valve aperture to the water flow chamber.

16. The apparatus of Claim 8, wherein the means for selectively blocking the flow of water includes a valve stem fitted within the valve aperture, the valve stem having an enlarged end, an angled body and a valve base.

17. The apparatus Claim 8, further comprising a means to provide continuous water flow without providing pressure to the rod.

18. The apparatus of Claim 17, wherein the aperture is substantially rounded with opposite notches to receive the head of the rod.

19. The apparatus of Claim 18, wherein the rod includes a plurality of outwardly projecting tabs configured to fit into said notches.

What is claimed is:

1. An apparatus comprising:

a water flow chamber having a solid cylindrical outer surface, the water flow chamber having a substantially flat foraminous surface at one end, an aperture located substantially central to the flat foraminous surface, a water flow chamber top edge having a lip, the one end of the water flow chamber held within the cylindrical valve housing by the lip;

a rod having a rod head at one end, the rod passing through the aperture and held in place by the rod head;

an upper flow guide, upper valve plate and an upper valve plate o-ring, the upper flow guide having water flow openings, the upper flow guide and upper valve plate held within the water flow chamber, the upper valve plate interfacing within the lip of the water flow chamber, the upper flow guide and the upper valve plate having a valve aperture;

a valve stem fitted within the valve aperture, the valve stem having an enlarged end, an angled body and a valve base end; the enlarged end of the valve stem and the upper valve plate selectively block a flow of water through the valve aperture; wherein said valve plate o-ring fits into the opening in the upper valve plate and is held securely into position by an undercut groove in the upper valve plate; whereas the valve base interfaces with the rod head such that lateral movement of the rod displaces the rod head, thereby pushing upward on the valve base resulting in the valve stem lifting thereby enabling a flow of water between the valve stem and the valve aperture;

a water filter element configured to block particles from passing thorough the water flow chamber; wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat; and said water filter element is configured to allow the valve stem to freely move up and down, and said water filter element forms a seal against the upper valve plate and the cylindrical valve.

2. The apparatus of Claim 1, wherein said water filter element has a configured

portion and said configured portion is substantially pyramid, or coned shaped.

3. The apparatus of Claim 2, wherein said configured portion of the filter element is made from a stainless steel mesh.

4. The apparatus Claim 2, further comprising a means to provide continuous water flow without providing pressure to the rod.

5. The apparatus of Claim 4, wherein the aperture is substantially rounded with opposite notches to receive the head of the rod.

6. The apparatus of Claim 5, wherein the rod includes a plurality of outwardly projecting tabs configured to fit into said notches.

7. The apparatus of Claim 1, wherein a top end of the valve base includes a recess for capturing a recessed washer.

8. A rod activated water valve apparatus comprising:

a valve base, a top end of the valve base being threaded on an outside surface for mating with a water faucet thread arrangement, a second end of the valve base having a threaded outside surface;

a water flow chamber having a solid cylindrical outer surface, the water flow chamber having a substantially flat foraminous surface at one end, an aperture located substantially central to the flat foraminous surface having a lip on a top edge of the water flow chamber, said water flow chamber including a water filter element configured to block particles from passing thorough the water flow chamber;

a rod having a rod head at one end, the rod passing through the aperture and held within the aperture by the rod head; and

a water filter element configured to block particles from passing thorough the water flow chamber; wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat; and said water filter element is configured to allow the valve stem to freely move up and down, and said water filter element forms a seal against the upper valve plate and the cylindrical valve.

9. The apparatus of Claim 8, wherein said water filter element is configured to allow the valve stem to freely move up and down.

10. The apparatus of Claim 8, wherein said water filter element forms a seal against the upper valve plate and the cylindrical valve housing.

11. The apparatus of Claim 8, wherein said water filter element has a top portion and bottom portion, wherein said bottom portion is a washer or o-ring material and said top portion is flat.

12. The apparatus of Claim 8, wherein said water filter element has a configured portion and said configured portion is substantially pyramid, or coned shaped.

13. The apparatus of Claim 12, wherein said configured portion of the filter element is made from a stainless steel mesh.

14. The apparatus of Claim 13, wherein said configured portion of the filter element is made from a stainless steel mesh or other filter material.

15. The apparatus of Claim 8, wherein the means for selectively blocking the flow of water includes a valve seat having an upper valve plate, a upper valve plate o-ring and a upper flow guide, the upper valve plate and a upper flow guide held within the water flow chamber, the upper valve plate held in the lip of the water flow chamber, a groove of the upper valve plate fitting within the second end of the valve base, the upper flow guide and the upper valve plate having a valve aperture, wherein the upper flow guide has a foraminous surface for passing water from the valve aperture to the water flow chamber.

16. The apparatus of Claim 8, wherein the means for selectively blocking the flow of water includes a valve stem fitted within the valve aperture, the valve stem having an enlarged end, an angled body and a valve base.

17. The apparatus Claim 8, further comprising a means to provide continuous water flow without providing pressure to the rod.

18. The apparatus of Claim 17, wherein the aperture is substantially rounded with opposite notches to receive the head of the rod.

19. The apparatus of Claim 18, wherein the rod includes a plurality of outwardly projecting tabs configured to fit into said notches.