



Rainwater Harvesting Systems

Owner's Manual

Downspout Diverters

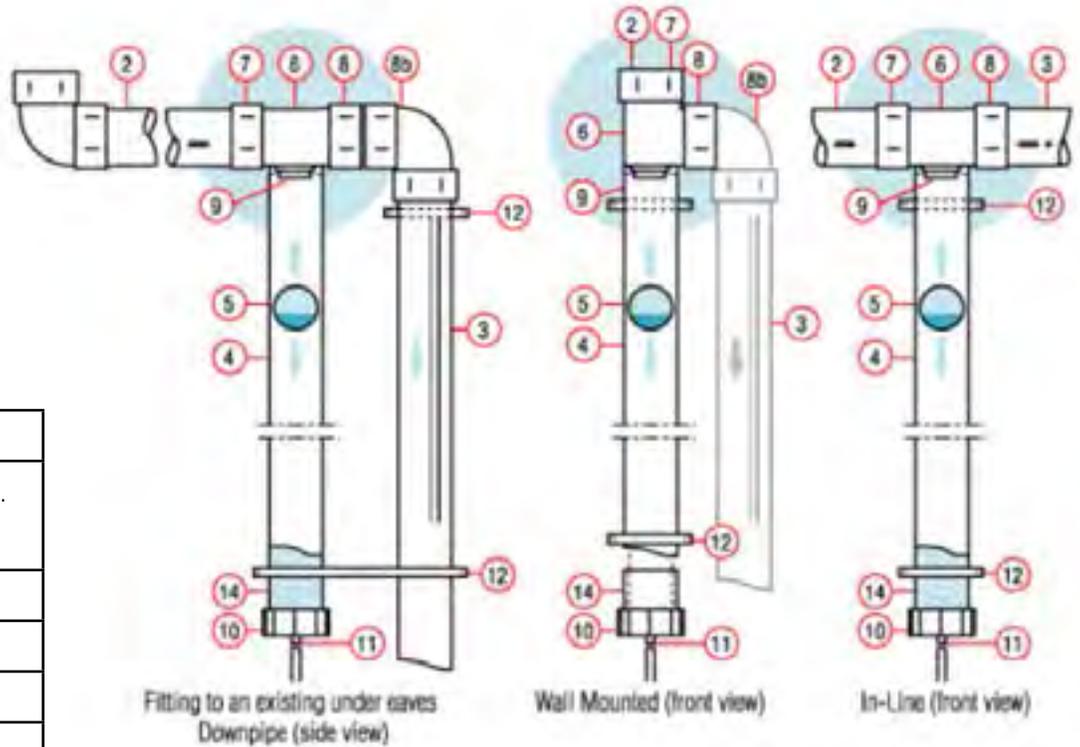
BARR Plastics Inc. | 1.800.665.4499 | barrplastics.com





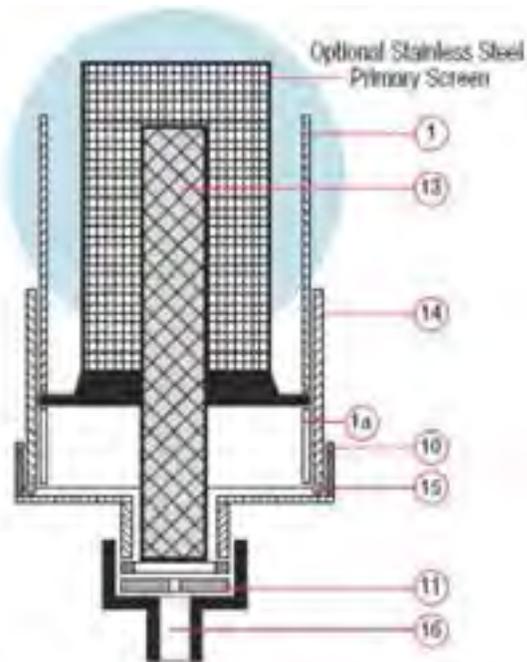
Downspout Diverters

Assembly Instructions



Reference

1	Diverter chamber
1a	Keeper ring for opt. stainless steel primary screen
2	In-feed from roof
3	To the tank
4	Diverter chamber
5	Sealing ball
6	Tee junction
7	Chamber inlet
8	Chamber outlet
8b	Elbow
9	Ball seat
10	Screw cap
11	Flow control valve
12	Pipes/wall brackets
13	Plastic filter screen
14	Socket
15	O-ring seal
16	Hose connector





Downspout Diverter

1. Determine the length of Diverter Chamber #4. Consider as a guide that each:

 - Three foot section of 3" Schedule 40 PVC pipe holds approx. 1.5 gallons of water.
 - Three foot section of 4" Schedule 40 PVC pipe holds approx. 2 gallons of water.

Then, fit the longest length of pipe possible, making sure the Screw Cap #10 is at least 6" from the ground to allow for removal and cleaning.
2. Place the Ball Seat #9 into the Tee Junction #6 ensuring the narrow end of the ball seat points down into the Diverter Chamber #4. Apply glue to the Diverter Chamber #4 and fit up against the Ball Seat #9 and hold until the glue sets. (Optional: Use a 45° bend adaptor to allow easier removal of the Screw Cap #10). Glue the Socket #14 to the bottom end of the Diverter Chamber #4.
3. Fix the assembled chamber directly to the wall in the desired position using the Wall Brackets.
4. Connect a Male & Female (M&F) Elbow #8b (if required) to the Chamber Outlet #8 and connect the downspout #3. Fit an elbow to the InFeed Pipe #2 (if required) and connect to the bottom of the selected rain head.
5. Select the appropriate Flow Control Valve #11 and insert into the Hose Connector #16, making sure the valve is inserted with the side marked "TOP" still showing. Start by using the Control Washer with the smallest gauge hole (lowest number). Try a larger gauge washer if experiencing blockages. Place the Filter Screen #13 into position from the outside of the Screw Cap #10 and then attach the Hose Connector #16.

An extra filter screen that helps stop the Control Valve blocking is available from your local store. Ask for the "Optional Stainless Steel Primary Screen." This filter is fitted in addition to the Plastic Filter Screen #13. To install: After completing step 5, insert the Keeper Ring #1a into the Screen Cap #10 and then place the Optional Stainless Steel Primary Screen on top of the Keeper Ring #1a.
6. Place the Sealing Ball #5 into the Diverter Chamber #4 and attach the assembled Screw Cap #10 to the Socket #14