UK FLOOD BARRIERS

FLOOD ANGEL®

Mainline Full Port Back Flow Valve

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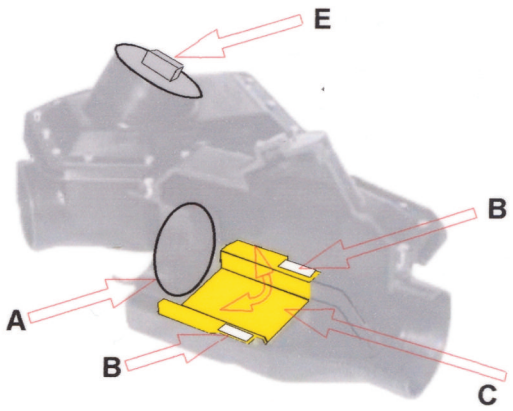
Instructions for use

The 'normally open' design of our valve allows unrestricted sewage flow – requiring minimal homeowner maintenance and providing the best in backflow protection.
CSA Certified: CSA B181.1-02 & CSA B181.2-02

Your back-flow valve has been designed to be as free from maintenance as possible, however, as with any mechanical device situated in a sewage environment, it is advisable to make periodic inspections. It is the owner's responsibility to perform the following regular checks:

1. Lift the lid on the access chamber and un-screw the clean-out cover (E)
2. Take a torch and check for build-up of any debris on, or underneath, the gate or on the walls of the valve(C).
3. Flush clean any deposits.
4. Inspect rubber O-ring and replace if necessary (A).
5. Check both gate floats are still in position (B).
6. Ensure gate can pivot with ease (C).
7. Re-install clean-out cover (E).
8. Re-install the access chamber lid.



Location

1. Where possible do not connect any other pipes into the main pipe within 600mm (2 feet) of the inlet side of the valve. This will ensure laminar flow throughout the valve.
2. It is important to ensure that any surface or rain water pipes are joined downstream of the valve.
3. Position the valve and access chamber in an accessible location to allow for inspection.
4. Access must be allowed for maintenance by forming a manhole or access chamber. You will require a 450mm circular inspection chamber, cover (dependent upon installation point, you may need a heavy duty cover for driveways or simply one for soft landscaping) and possibly risers which are available from UK Flood Barriers Limited.

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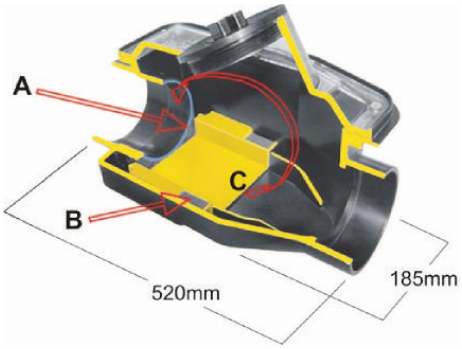
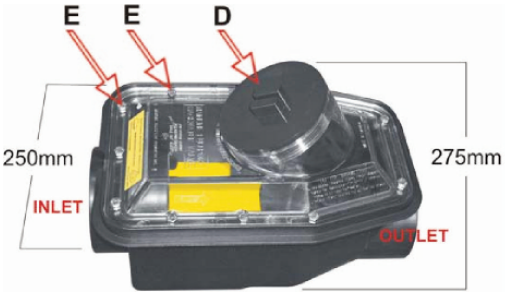
Fitting Instructions

Preparation



1. Check the o-ring is in place (Arrow A).
2. Check the two flotation devices are in place on either side of the gate. (Arrow B).
3. Check the gate pivots up and down with ease. (Arrow C).

Installation



1. Where the valve is to be retrospectively fitted to an existing system, the installer should expose between 1200mm to 1500mm (4-5 feet) of pipework to allow for adjustment of the gradient where necessary.
2. The valve should be positioned with the arrows marked on the body echoing the direction of normal water flow.
3. The valve will function where gradients in adjoining pipework are from a minimum of 2% up to 100%, however, it is preferable to allow a gradient of 4% or more. Please ensure that adjoining pipework achieves at least this gradient (adjusting the gradient where necessary) before installing the back-flow valve.
4. The valve contains its own internal drop of approximately 20mm (4%) between the inlet side of the valve and the outlet side thus achieving minimum gradient with the top lid level. Check level by placing a spirit level along the top of the lid bolts (arrows E). The top should be level or sloping downwards. Re-check adjoining pipe work to ensure that minimum gradient has been achieved.
5. Connection can now be made using push-fit slip collars (available from UK Flood Barriers Limited).
6. Perform the checks detailed in Testing (see below).
7. Form access chamber using concrete or plastic risers and backfill the exposed pipe work.

Testing

1. Any soil or building debris which may have entered the pipes or valve during building works should be removed via the cleanout cover – particular attention should be paid to the area around the hinged gate. If necessary remove the bolted lid to clean any stubborn deposits that may remain.
2. Perform the checks as details in preparation (see above)
3. Run all water fixtures and appliances to ensure none have been overlooked and that they all run through the back flow valve.
4. Pour water down rainwater catchment drains to ensure that none runs through the back-flow valve.
5. Tighten the cleanout cover (arrow E).