



AIR ADMITTANCE VALVE



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Air Admittance Valves

Air admittance valves are designed to decrease the number of suspended floor and roof penetrations required to accommodate soil and ventilating stacks without reducing the effectiveness or performance of the soil system. They can also reduce material and labour charges by reducing the number of products required to finish the stack and the time taken to install and make good.



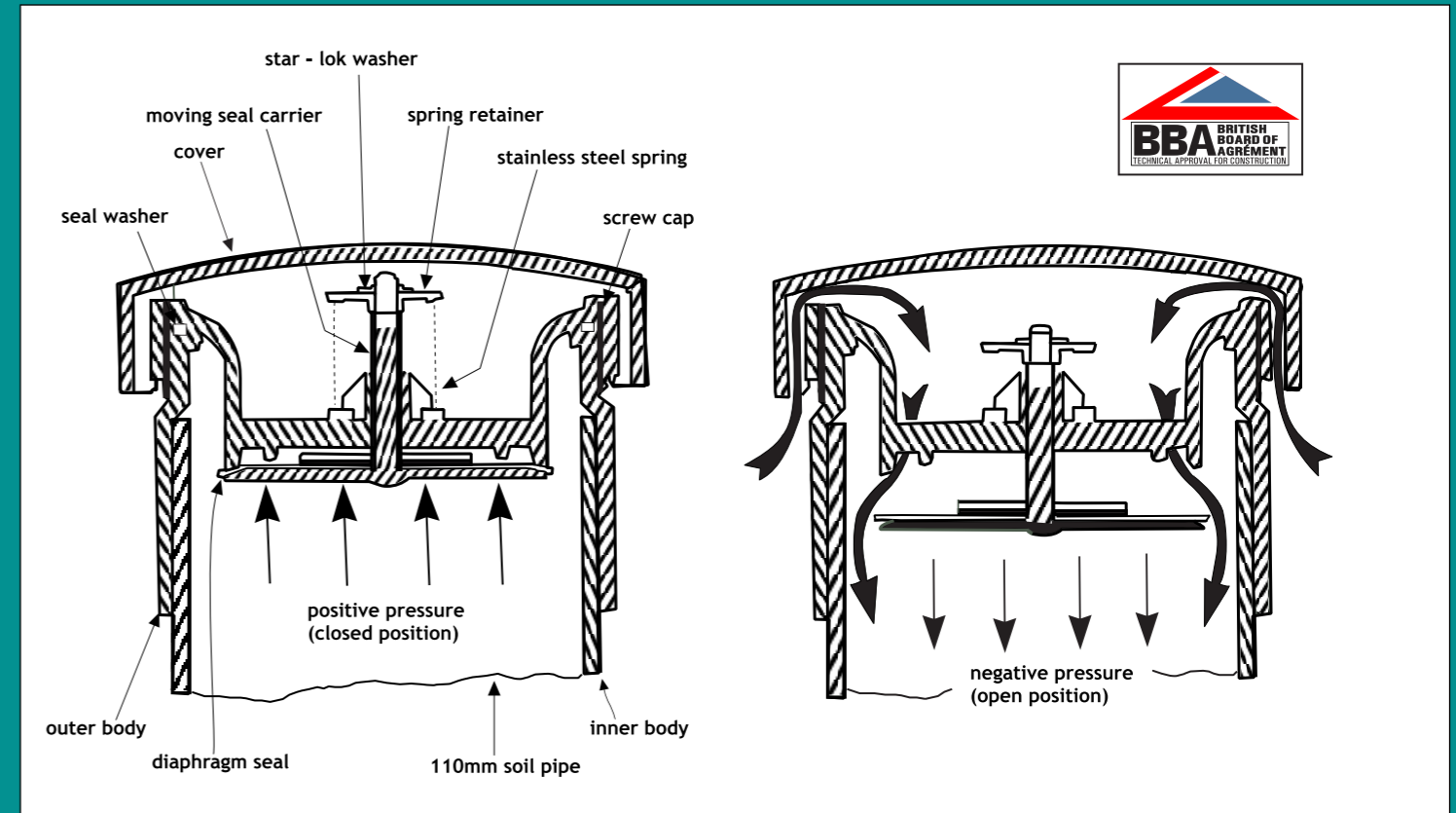
Polystyrene tops can be fitted over the valve cover after installation, providing insulation for the valve in use. The valve incorporates a socket for solvent welding to 110mm PVCu pipe to BS EN1329:2000. It can be fitted to sanitary pipe work systems of buildings up to 5 storeys high.

Air Admittance Valve - S450

Polystyrene Insulator - S451

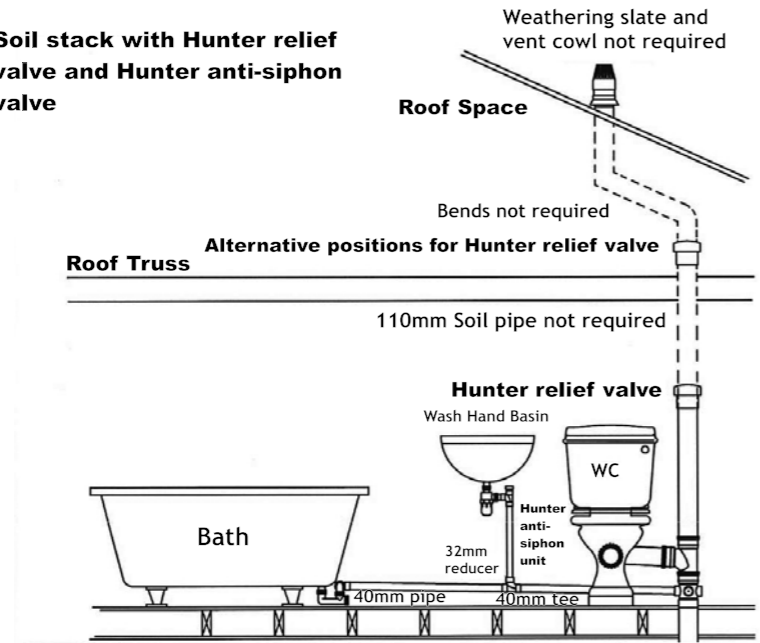
How it works

The valve contains a diaphragm which under light spring pressure is normally held closed, containing foul air within the system. This pressure causes the diaphragm in the valve to lift from its seat, allowing air to be drawn into the system: this intake and the rapid equalisation of air pressure prevents foul air escaping and prevents the water seals in traps from being broken.



How to Install

The valve must be solvent welded in a vertical position to the top of the internal stack above flood level of the highest appliance allowing the soil stack to be terminated internally. When terminating the stack in loft space, a polystyrene insulating cap (S451) must be used. The valve incorporates a socket for solvent welding to 110mm UPVc pipe to BS 4514.



It should be situated in a non-habitable area of the building, e.g the roof space or boxed in in a bathroom area but where it will be easily accessible and there is reduced risk of freezing. Care must be taken to prevent contamination of moving parts. In the event of accidental damage or vandalism once installed, the cover can be unscrewed and the damaged part(s) replaced.



Specification

The valve comprises a two-part acrylonitrilebutadiene-styrene (ABS) inner body, seal carrier, spring retainer and cover, a UPVc outer body and screw cap. An EPDM seal and diaphragm manufactured from material complying with BS 2494 and a corrosion resistant spring conforming to wire specification BS 5216. The Air Admittance Valve complies with the Building Regulations 1991 (as amended) (England and Wales) 2002 Edition effective April 2002 of requirement: H1(1) Foul water drainage.

Air Admittance Valve's Benefits

- ✓ Operating on negative pressure, valve opens when any appliance is discharged, allowing air into system
- ✓ Unique design offers rodding access, saves the need for extra rodding point at base of soil stack
- ✓ Expanded polystyrene material - provides additional insulation for 110mm Air Admittance Valve
- ✓ Ideal for commercial complexes where a range of basins has been installed or where there are long pipe runs

