



OPERATION AND CARE MANUAL

DURGO AIR ADMITTANCE VALVES FOR DRAINAGE SYSTEMS

For an indoor drainage system to function optimally, it is important that it is correctly designed, that the installation is carried out in accordance with requirements, with the required pipe dimensions, connections, and slope, and that the system is properly ventilated. Pressure changes that arise in the system during use could otherwise empty the water traps, which can cause inconvenience due to odors and moisture surges on building parts. You can also have problems with poor drainage and floor drains that make noise.

Durgo Air Admittance Valves (AAV) are available in a large range of dimensions, from 15 mm to 160 mm customized to fit all commonly used drain dimensions.

Suitable AAV models and dimensions are selected based on calculated air flow requirements and system design, see the additional product brochure or info on our website, www.durgo.se

Installation:

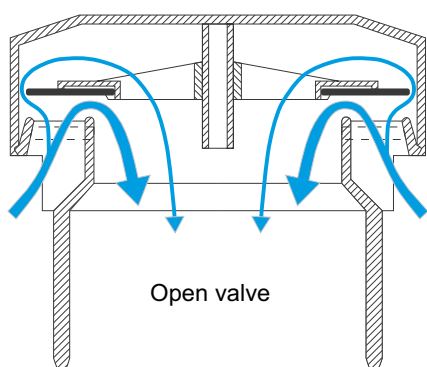
Durgo AAVs can be installed directly on the vertical stacks and / or in a cut-off on the horizontal branch pipes.

Mounted with the air intake openings facing downwards:

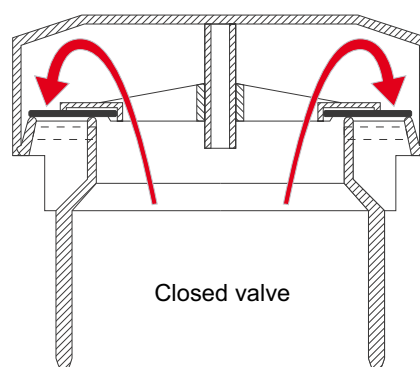
The valve has a built-in disc with a mounted EPDM gasket which with its dead weight seals towards a valve seat. For correct function, the valve must be mounted with the air intake openings directed downwards, $\pm 5^\circ$.

When mounting, the valve spigot must seal properly against the end of the drainage pipe. Use approved rubber couplings in a well-adapted dimension or mount the valve directly in the socket of the drainage pipe.

At normal or over pressure the valve is closed and tight, preventing foul air from leaking out into the building. In case of negative pressure, the valve opens, lets air into the system and equalizes the pressure and prevents the water traps from being drained.



Open valve



Closed valve

Installation location

The valves are tested to work in indoor installations with an ambient temperature of -20°C to $+60^\circ\text{C}$. The valves must be installed in a ventilated environment, easily accessible for inspection and possible maintenance. Depending on the model, the AAV can be placed within 1 meter below the installed unit it serves (WC, sink, etc.).

When installing in cold conditions, the EPS-insulation cover must be mounted on the valve.



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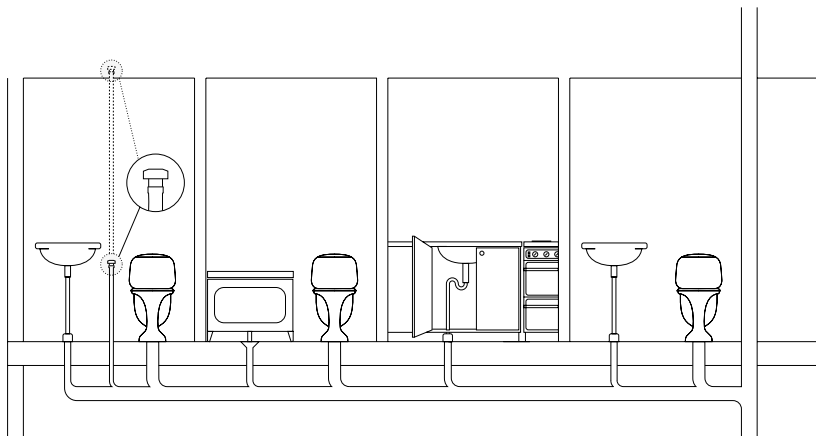
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Installation on stacks

The AAV can be installed directly on top of the vertical stack. When installing AAVs in installations in high-rise buildings, it can be an advantage to install several valves, evenly distributed on the stack with 3-4 floors between each valve.

Secondary venting / installation on horizontal branch pipe

When installing AAVs on a horizontal branch pipe, it is important that the entire pipe is thoroughly flushed. There should always be at least one discharge unit outside the venting pipe connection to avoid the risk of blockage.



Blockage warning indicator

Since the AAV's main function is to admit air into the system while prevent odors etc. from leaking out in the event of over pressure, the valve also acts as an indicator of warning signs of blockage in the drainage system. If the system downstream is completely or partially blocked, an over pressure can form in connection with flushing or draining. The fact that the water level during flushing in the toilet seat is higher than normal or that water in the floor drain and in the sink drains away slowly, can be a sign of ongoing blockage and problems with overpressure. This is not a sign to that the AAV is not working properly, it is rather an indication of problems in the system, which enables measures to be taken before the blockage is total.

Maintenance instructions

The Durgo AAVs have a durable and reliable design, maintenance is normally not required. However, regular visual inspection is recommended to verify that the valve is tight and working properly. If you experience that the valve does not work, is untight and releases odors or does not open properly, it may be due to debris or deposits stuck between the valve sealing and the sealing surface. When cleaning, remove the valve from the system and then rinse in luke warm water, use only mild soap detergents, no solvents.

Approvals:

All Durgo AAVs are tested, manufactured and CE marked in accordance with the requirements of the standard for Air Admittance Valves EN 12380.

Declaration of performance and additional information can be downloaded from www.durgo.se or www.rskdatabasen.se

