

TRI-FUNCTION SEWAGE AIR VALVE

Air release, vent & vacuum valve model A200CN

Valve Function

The Avarus Valves model A200CN tri-function sewage air valve has 3 functions.

Function 1: The large orifice will vent large volumes of air from the system when it is being filled.

Function 2: The large orifice will allow large volumes of air to re-enter the system when being emptied.

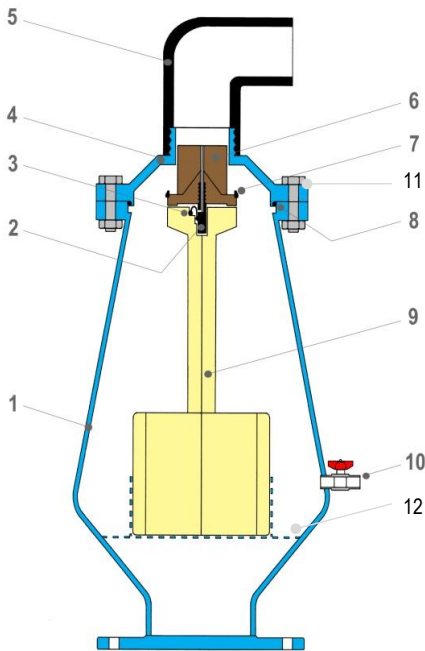
Function 3: When function 1 is completed, the small orifice will automatically release any accumulation of air from the pressurised system.

Application

For sewage or dirty water, working pressure 0.2 to 16 bar. Operating temperature -10 to +80°C, insulate at 0°C & below.



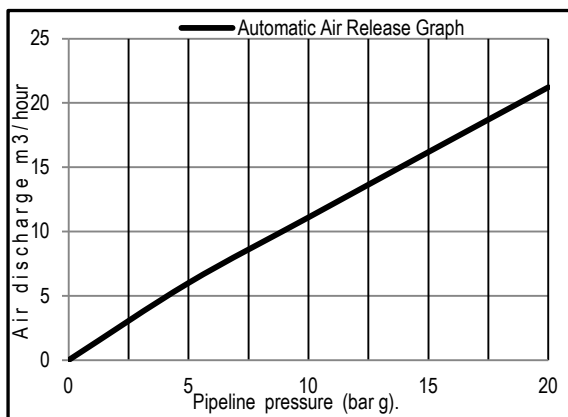
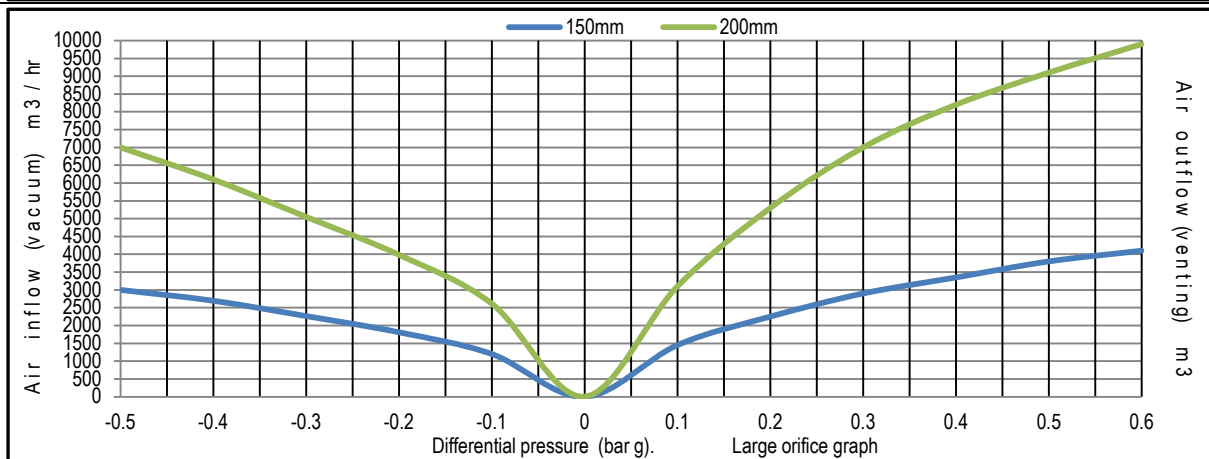
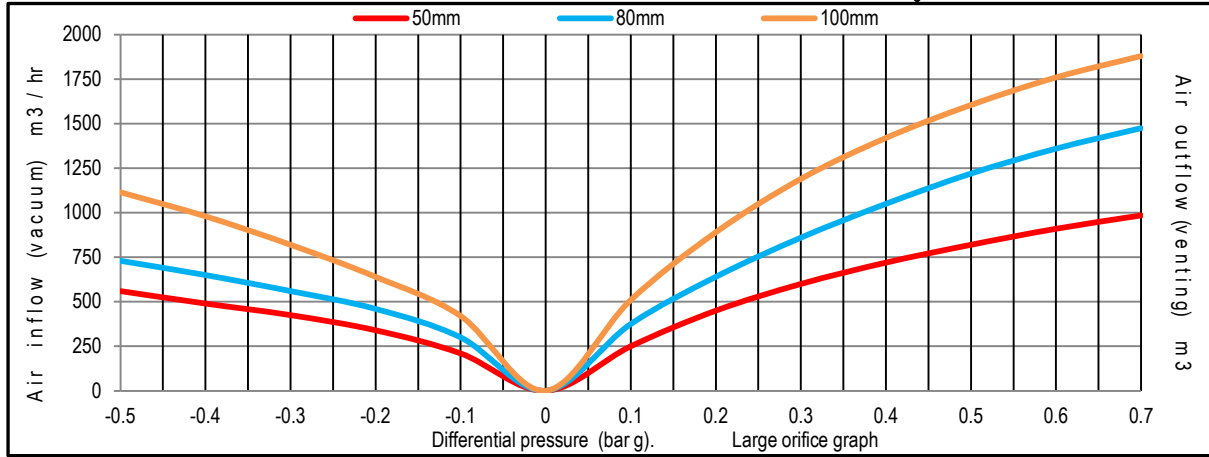
Valve size (mm) (flanged inlet)	DN50	DN80	DN100	DN150	DN200	DN250
Width (mm)	275	275	275	275	275	275
Height with elbow (mm)	770	710	710	735	735	990
Height without elbow (mm)	690	585	585	585	585	705
Weight (kg)	27.5	27.5	29	34	38	61



#	Materials of Construction	
1	Body	Steel EN10025 S235JR
2	Small Orifice Shaft	Polypropylene
3	Small Orifice Seat	EPDM
4	Cover	Ductile Iron EN1563 GJS 400-15
5	Outlet Bend	Polypropylene
6	Small Orifice Float	Polyacetal
7	Large Orifice Seat	EPDM
8	O-ring	EPDM
9	Large Orifice Float / Shaft	Polypropylene
10	Ball Valve	Zinc Plated Brass
11	Fasteners	Stainless Steel
12	Float Guide	Epoxy Coated Steel
WRAS approved epoxy coated		

Sizing

Air valves should be sized according to the pipeline diameter or air flow rate. For sizing the large orifice, the Air Valve Sizing Table can be used. If air flow figures are available, then the flow graph can be used.



Air Valve Sizing Table					
Valve size (mm)	DN 50	DN 80	DN 100	DN 150	DN 200 & 250
Recommended maximum pipeline diameter (mm)	400	600	800	1200	1800
For larger diameter pipelines consult Avarus Valves					

Options

- Isolation valve – it is recommended that air valves are fitted with an isolation valve.
- Adjustable throttle device – allows manual adjustment of the venting orifice size, can be easily done whilst installed.
- Surge arrestor – automatically reduces high venting velocity, therefore decreasing the pressure surge on valve closure.
- Inflow check device – allows air venting only.
- Outflow check device – allows air inflow only (under vacuum).
- Vented non-return device – allows restricted air venting and un-restricted air inflow.
- Odour control unit – air valve is supplied with an odour control unit for removal of vented sewage odour in sensitive areas.