

Double Orifice Sewage Air Release & Vacuum Valve Fig.942



Tests:

- Seat 1.1 x PN Body 1.5 x PN

Service conditions:

- Sewage & dirty water.
- Working pressures 0.2 bar up to 16 bar.
- Temperature range 0°C to +70°C. (insulate 0°C and below).

Accessories / Options:

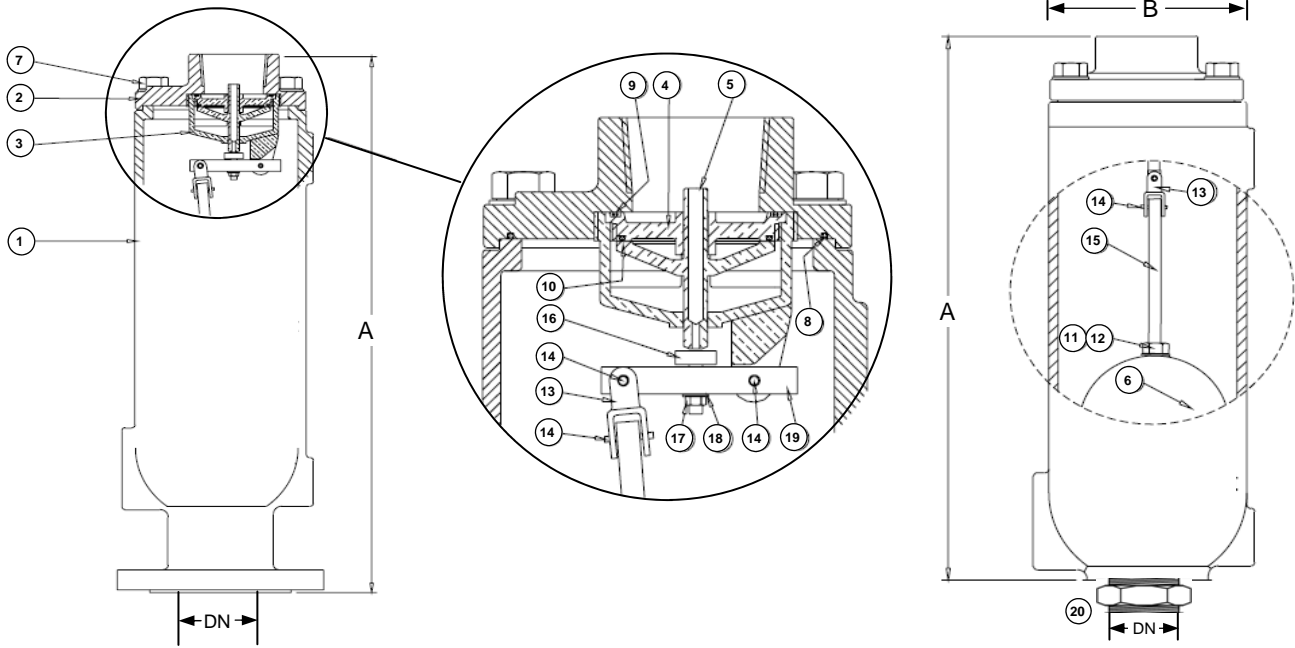
- Various materials available for corrosive applications
- Various flange drillings.
- Surge arrestor, inflow / outflow check device, vented non-return device, adjustable throttle device.
- Flushing attachment.
- Drainage boss.
- Isolating gate valve with or without bevel gearbox.
- 25 bar version.
- Odour control unit.
- NPT threaded.

Function & features:

- Double orifice air valve that combines both large orifice & small orifice functions within one unit. The large orifice allows air to be expelled from the system during filling of a pipeline and admit air back into the system whenever sub-atmospheric pressure occurs. Air is vented from the system until liquid enters the valve and lifts the float on its pivot which lifts the plug against the large orifice seat. Pressure within the body holds the plug firmly against the seat. In the event of sub-atmospheric pressure in the system, the liquid level drops causing the float and plug to lower and allow the admission of air.
- During normal working of the main the valve releases the air which accumulates under pressure, without escape of fluid. With the main in operation, the float normally holds the orifice button against its seat. As air enters the body the fluid level is depressed until a level is reached when the float drops, which allows air to vent through the small orifice. The consequent rise in fluid level returns the float and orifice button to its seat.
- 50mm (2") - 150mm (6") sizes.
- WRAS approved coating.
- ATEX approved.

Materials:

No.	Description	Material
1.	Body	Ductile iron ENGJS-500-7
2.	Cover	Ductile iron ENGJS-500-7
3.	Cage	316 Stainless steel
4.	Seat	316 Stainless steel
5.	Plug	316 Stainless steel
6.	Float	316 Stainless steel
7.	Cover setscrews	316 Stainless steel
8.	Cover O-ring	Nitrile rubber
9.	Seat cover O-ring	Nitrile rubber
10.	Seat O-ring	Nitrile rubber
11.	Nut	316 Stainless steel
12.	Lockwasher	316 Stainless steel
13.	Universal coupling	316 Stainless steel
14.	Spirol pin	Stainless steel
15.	Float rod	316 Stainless steel
16.	Orifice button	316 Stainless steel / Viton
17.	Nut, orifice button	316 Stainless steel
18.	Lockwasher	316 Stainless steel
19.	Lever arm	316 Stainless steel
20.	Inlet nipple (2"BSP)	Galvanised malleable iron



Valve size Inlet x outlet	A mm	B mm	Inlet DN mm	Weight kg
2" BSP x 1" or 2" BSP	500	162	2" BSP T	23
50mm PN16 x 1" or 2" BSP	565	162	50	27
80mm PN16 x 1" or 2" BSP	565	162	80	27
80mm PN16 x 3" BSP	650	241	80	54
100mm PN16 x 4" BSP	650	241	100	54
150mm PN16 x 6" BSP	750	266	150	145
(LP) 2" BSP x 1" or 2" BSP	430	240	2" BSP T	34
(LP) 80mm PN16 x 1" or 2" BSP	460	240	80	39
(HP) 80mm PN16 x 1" or 2" BSP	600	375	80	62

- Model figure numbers:**
- Fig.942 - Standard valve.
 - Fig.942 LP - Squat type / low pressure valve.
 - Fig.942 HP - High pressure PN25 rated valve.

- Air valve sizing - maximum pipeline diameter:**
- Up to 200mm use 1" outlet valve.
 - Up to 450mm use 2" outlet valve.
 - Up to 600mm use 3" outlet valve.
 - Up to 900mm use 4" outlet valve.
 - Up to 1200mm use 6" outlet valve.
- Guideline only if air volume figures are not available.

