

ARV-3N

316 STAINLESS STEEL SEWER AIR RELEASE VALVE





✓ Australian designed & manufactured

The ARV 3N incorporates a kinetic and an automatic air release valve in one single valve body. Its function in the sewage system is to allow air and gases to be expelled from the pipeline during filling, and air to be admitted into the pipeline during emptying. The valve is designed to provide complete separation of the sewage from the sealing mechanism.

FEATURES

- Working pressure of 0.1 16 bar.
- All wetted components manufactured from 316 and 316L stainless steel.
- Design of valve maintains air gap between sewage and sealing mechanism.
- The valve body shape is designed to contain the maximum volume of sewage while minimising the valve height.
- Lower shape of valve body is designed to provide ease of drainage of sewage back into the pipeline.

OPERATIONS

When the pipeline is being filled, trapped air and gases are released through the large orifice of the kinetic valve. During emptying of the pipeline the valve allows air to enter the pipeline through the large orifice. During normal operation the large orifice remains closed while the small orifice allows small amounts of entrapped air which has accumulated, to be released through the valve.

The valve mechanism is designed to absorb small changes in pressure which prevents the small orifice from continually opening, thus maintaining a constant air gap between the sealing mechanism and the sewage.

TECHNICAL DATA

Pressure Classes:	PN16
Maximum Air Outflow:	500m ³ /h (filling line) & 20m ³ /h (full line)
Minimum Sealing:	0.1 bar
Temperature Range:	0°C to 80°C
Inlet Connection (optional):	50, 80, 100 & 150mm
Upper Outlet Orifice:	32mm BSPF
Weight:	13.6kg
Maximum Height:	670mm
Maximum Diameter:	270mm

Designs, materials and specifications shown are subject to change without notice due to our continuing program of product development ARV-3N V1 20130903



MATERIAL SPECIFICATIONS & PARTS LIST

DESCRIPTION	MATERIAL
Base O Ring	EPDM
Dome Head Nut	SS316
Washer	SS316
Plug	UPVC
Washer	SS316
Base	GRN
Spring	SS316
Stem	SS316
Bottom Float	SS316L
Main Body	SS316L
Flush Port (1" BSP)	SS316
	Base O Ring Dome Head Nut Washer Plug Washer Base Spring Stem Bottom Float Main Body

DIMENSIONAL DRAWING

AIR INFLOW & OUTFLOW

Table 1. Air Outflow Main Seal



Table 3. Air Outflow Secondary Seal

AIR OUTFLOW SECONDARY SEAL (CFM)

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SECONDARY SEAL (m3/h)

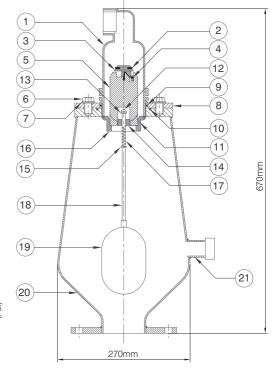
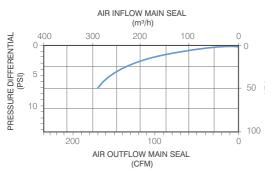


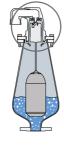
Table 2. Air Inflow Main Seal

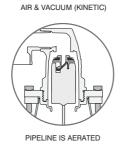
page 2

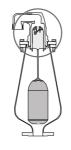


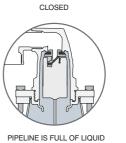
PRINCIPLE OF OPERATION

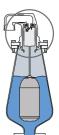












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