

A.R.I. Flood Guard

 **Aquestia**
Directing the Flow



Waterworks

Self-operating Flood Guard for Air Valves

Description

A.R.I. Flood Guard device, protects potable water systems from external contamination caused by floodwater overflow. In cases where contaminated water infiltrates the manhole and enters the pipeline via the air & vacuum (kinetic) discharge outlet, the Flood Guard seals at zero pressure; guaranteeing a leak-tight seal to prevent water from penetrating the air valve. It also allows effective air valve intake and discharge flow rates to be maintained.

Note: During flooding, when the Flood Guard is sealed, the air valve will not intake air under negative pressure (vacuum) conditions.

Operation



As long as the flood level is below the Flood Guard, unobstructed ventilation is possible.



If the flood level continues to rise, the float of the Flood Guard will rise with the buoyant force.



When the float reaches the sealing seat, it closes the Flood Guard drip-tight, preventing the intake of contaminated water.

Features and Benefits

Hygienic seal concept	Prevents contamination during flooding with zero sealing pressure & immediate drip-tight closure
Full-flow air intake & discharge	Efficient, will not affect valve performance
Self-operating float	No auxiliary power required
Simple & easy operation	Fewer parts, easy handling & minimum maintenance
Corrosion-resistant	All parts made of composite materials & Stainless Steel
Underground precautions	Cost-effective emergency measures for manhole environments
Adaptable for retrofitting	Suits various types of valves + easily installed on existing systems

Technical Specifications

Size range	2", 3", 4" (male thread)
Working pressure range	Zero sealing pressure requires only buoyant force Seals up to 10M water column head Negative pressure cannot seal the float
Adaptable products	A.R.I. D-43 A.R.I. D46 A.R.I. D-050 A.R.I. D-050 NS A.R.I. D-060 A.R.I. D-060 NS

Upon ordering, together with the air valve, all fittings and connections will come assembled.

When ordered as a separate unit, all fittings and connections are the responsibility of the buyer.

Dimensions

Size	Dimensions (mm)	
	A	B

A.R.I. Flood Guard Attached to A.R.I. D-43

2" (50mm) FL	278	367
3" (80 mm) FL	398	467
4" (100 mm) FL	513	547



A.R.I. Flood Guard Attached to A.R.I. D-46

2" (50mm) THR	274	327
2" (50mm) FL	313	333
3" (80 mm) FL	380	467
4" (100 mm) FL	457	537



A.R.I. Flood Guard Attached to A.R.I. D-050 / A.R.I. D-060 Screen Cover Models

2" (50mm) FL	325	334
3" (80 mm) FL	408	505
4" (100 mm) FL	495	497



A.R.I. Flood Guard Attached to A.R.I. D-050 NS / A.R.I. D-060 NS Screen Cover Models

2" (50mm) FL	330	370
3" (80 mm) FL	441	513
4" (100 mm) FL	518	595

FL - Flanged THR - Threaded

