

# A.R.I. VB-060



Wastewater

## Disc-Type Spring-Loaded Vacuum Breaker

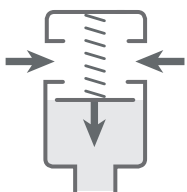
### Description

The VB-060 is a normally closed, spring-loaded full bore vacuum breaker, designed to seal "drip tight" and to open fully at minimal differential pressure, to allow the intake of air into the pipeline or system when vacuum conditions occur, thus protecting the pipeline.

### Installation

- Pump stations
- Water and wastewater transmission lines at points susceptible to vacuum / water column separation

### Operation



Air Intake  
Normally Closed

## Features and Benefits

For use in both potable water and wastewater	versatile applications
All internal parts made from specially chosen materials	non-corrosive and durable
Unique orifice seat/seal design	long-term maintenance-free operation
Compliant with AWWA Standard C512 and European Standard EN 1704-4	meets international specifications

## Technical Specifications

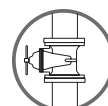
Size range	8" - 24"		
Sealing pressure range	Sealing at low pressure:	VB-060: 0.01 bar	VB-060 + AV: 0.2 bar
:	Opening pressure:	VB-060: -0.02 bar	VB-060 + AV: -0.02 bar
	Maximum Working Pressure:	VB-060: 8"-10", 14"-24" - 16 bar	VB-060: 12" - 25 bar
	Testing pressure:	1.5 times maximum working pressure	
Temperature	Maximum working temperature: 60° C. Maximum intermittent temperature: 90° C.		
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2		
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid			

## Valve Selection Options

- Optional addition of an air valve: type and size dependent on the application (water or wastewater)  
Please see the 'Air Valve Addition Selection Table' for all the additional air valve options available.

The valve installed under the air valve must be fully open to prevent damage or malfunction and ensure performance within the specifications of the air valve.

For complete installation instructions, please refer to the IOM document.

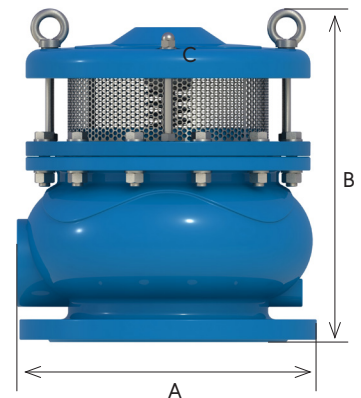


## Dimensions and Weight

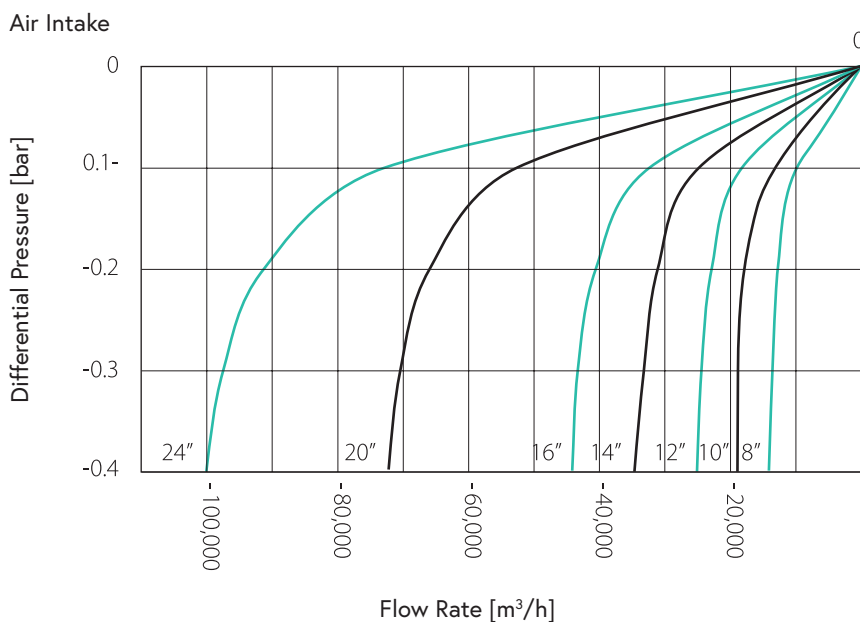
Size	Dimensions (mm)		Weight (kg)
	A	B	
8" (200mm)	345	420	64
10" (250mm)	410	430	90
12" (300mm)	485	530	130
14" (350mm)	560	600	190
16" (400mm)	635	690	240
20" (500mm)	770	820	430
24" (600mm)	920	1045	660

### NOTE

All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.



## Flow Charts



## Air Valve Addition Selection

Vacuum Breaker	Connection Diameter for Air Valve	Type Of Air Valve Addition	Working Pressure (bar)	Orifice Area of Air Valve (mm <sup>2</sup> )	Remarks
8" - 12" 14"-16"	1" 2" 3"	D-020 2"	16	804	Metal / Nylon valve
		D-025 2"	10	804	Metal / Nylon valve
		D-025 L 2"	16	804	Metal / Nylon valve
14"-16"	3"	D-020 2"/3"	16	804	Metal / Nylon valve
		D-025 2"/3"	10	804	Nylon valve
		D-023 2"/3"	16	5024	Metal
		D-025 L 2"/3"	16	804	Metal / Nylon valve
20" - 24"	4"	D-020 2"/3"/4"	16	804	Metal
		D-025 2"/3"/4"	10	804	Metal / Nylon valve
		D-023 2"/3"/4"	16	5024	Metal



## Parts List and Specifications

Part	Material
1. Screen Cover Assembly	
1a. Screen Cover	Cast Ductile Iron
1b. Bolt, Nut & Washer	Stainless Steel 316
1c. Lifting Ring	Stainless Steel 316
1d. Screen	Stainless Steel 316
2. Cover Assembly	
2a. Nut	Stainless Steel 316
2b. Spring Lock	Stainless Steel 316
2c. Spring	Stainless Steel 316
2d. Guide Rod	Stainless Steel 316
2e. Cover Bearing	Bronze / Teflon
2f. Domed Nut & Washer	Stainless Steel 316
2g. Threaded Rod	Stainless Steel 316
2h. Circlip	Stainless Steel 316
3. Disc Assembly	
3a. Bolt	Stainless Steel 316
3b. Retainer	Stainless Steel 316
3c. Rubber Seal	Epdm
3d. Disc	Cast Ductile Iron
4. Body Assembly	
4a. O-ring	Epdm
4b. Body	Cast Ductile Iron

