

A.R.I. NR-010 VB

Aquestia
Directing the Flow



Waterworks

Spring-loaded Vacuum Breaker

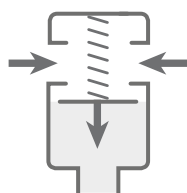
Description

A.R.I. NR-010 VB is a composite material, normally closed, full-bore, spring-loaded Vacuum Breaker. It is designed to seal "drip-tight" and to open fully at minimal differential pressure, allowing intake of air into the pipeline or system when vacuum conditions occur; thus protecting the pipeline.

Installation

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

Operation



Air Intake
Normally Closed

Features and Benefits

All internal parts made from high-reliability materials	Non-corrosive and durable
Unique orifice seat/seal design	Long-term maintenance-free operation
The body of the valve is made of composite materials	Non-corrosive and durable

Technical Specifications

Size range	3" - 10"
Sealing pressure range	NR-010 VB 0.01 bar NR-010 VB + D-040 0.2 bar Testing pressure 1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C

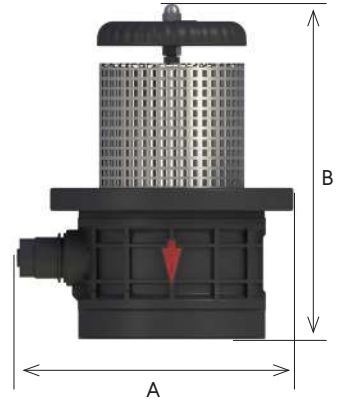
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid

Valve Selection Options

Models	A.R.I NR-10 VB A.R.I NR-10 VB + D-040
Valve connection	Flanged ends to meet various requested standards
Standard materials	Reinforced Nylon, EPDM
Pressure rating	3"-8" 16 bar (PN16) 10" 10 bar (PN10)

Dimensions and Weight

Size	Dimensions (mm)		Weight (kg)
	A	B	
3" (80mm)	226	204	2
4" (100mm)	286	231	3
6" (150mm)	324	414	5.5
8" (200mm)	365	575	8
10" (250mm)	427	688	11

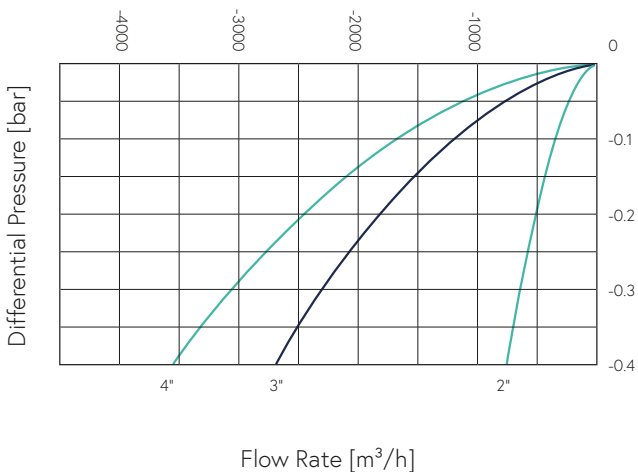


NOTE

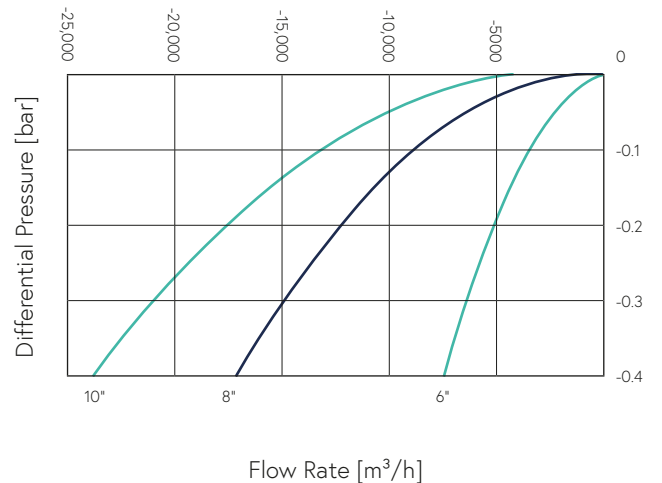
All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.

Flow Charts

Air Intake



Air Intake



Parts List and Specifications

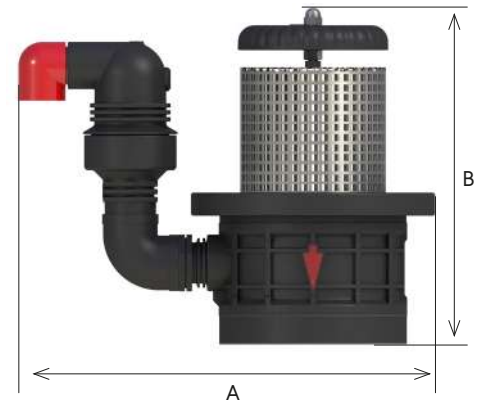
No.	Part	Material
1	Cover Assembly	
1a	Domed Nut	Stainless Steel 316
1b	Cover	Polypropylene
1c	Washer	Stainless Steel 316
1d	Nut	Stainless Steel 316
2	Flange	PVC
3	Strainer Assembly	
3a	Bolt	Stainless Steel 304
3b	Strainer Ring	PVC
3c	Strainer	Stainless Steel 304 / 316
4	Body Assembly	
4a	Body	Reinforced Nylon
4b	Spring Housing	Acetal
4c	Spring	Stainless Steel 302
4d	O-ring	NBR
4e	Spring Cover	Reinforced Nylon
5	Flap Assembly	
5a	Disk Seal	EPDM
5b	Flap	Reinforced Nylon
5c	Flap Lock Right	Reinforced Nylon
5d	Pan Head Philips	Stainless Steel 316
5e	Flap Lock Left	Reinforced Nylon
6	Spacer Assembly	
6a	Spacer Seal	EPDM
6b	Spacer	Reinforced Nylon
6c	Body Seal	EPDM



Dimensions and Weight

Size	Dimensions (mm)		Weight (kg)
	A	B	
6" (150mm)	484	393	6.5
8" (200mm)	523	394	9.5
10" (250mm)	562	394	12

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



Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Domed Nut	Stainless Steel 316
1b	Cover	Polypropylene
1c	Washer	Stainless Steel 316
1d	Nut	Stainless Steel 316
2	Flange	PVC
3	Strainer Assembly	
3a	Bolt	Stainless Steel 304
3b	Strainer Ring	PVC
3c	Strainer	Stainless Steel 304 / 316
4	Body Assembly	
4a	Body	Reinforced Nylon
4b	O-ring	NBR
4c	Threaded Connector	Reinforced Nylon
4d	Threaded Reducer Bushing	Polypropylene
4e	Elbow	Polypropylene
4f	A.R.I. D-040	Reinforced Nylon + EPDM
5	Flap Assembly	
5a	Disk Seal	EPDM
5b	Flap	Reinforced Nylon
5c	Flap Lock Right	Reinforced Nylon
5d	Pan Head Philips	Stainless Steel 316
5e	Flap Lock Left	Reinforced Nylon
6	Spacer Assembly	
6a	Spacer Seal	EPDM
6b	Spacer	Reinforced Nylon
6c	Body Seal	EPDM

