

Installation & Operating Manual



ART 1335 Water Hammer Arrestor

Albion Valves (UK) Ltd

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Water Hammer Arrestors ART 1335 LEAD FREE*



Sizes: ½" -1" (15-25mm) What is Water Hammer?

The noise from banging pipes is caused by shocks of high speed water flowing in the piping system when a fixture is suddenly closed. Sudden stoppage of the water(a non compressible Liquid) flowing at a given pressure and velocity causes a surge or spike of water and is called water hammer. When this occurs , a pressure wave travels back through the piping until it finds a point of relief. The Albion ART 1335 Water Hammer Arrestors are designed to elliminate this effect. The Albion ART 1335 features Lead Free* construction to comply with Lead Free* requirements.

Dishwashers, clothes washers, fast closing positive shutoff valves incorporated in the system all contribute to creating water shock which is not only annoying but damaging to pipes and appliances. The Albion Water Hammer Arrestors incorporates a precharged, permanent sealed air chamber to absorb the shock, The sealed chamber prevents the loss of air to the water and insures long and trouble-free Life.

Features

- NPT solid hex brass adapter
- Approved for installation with no access panel required
- May be installed in new or existing plumbing systems with a standard pipe tee vertically, horizontally or at any angle.
- POI Listed(PDI WH201)
- Air pre-load is 60psi(4.2 bar)
- Factory air charged and permanently sealed

Pressure-Temperature

- Max. Pressure: 350psig

- Operating Pressure: Designed to operate on all domestic and commercial lines

150 psi(10.6bar) working pressure.

- Temperature Range: 33°F (0.5 °C to 82 °C)

Materials Description

- Body: Copper

- Piston: Polypropylene- Adapter: Lead Free- O-ring: EPDM

Standards Approved by:

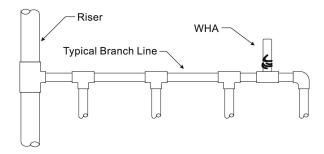




WHA-A to WHA-F include have been tested and certified in accordance with the Plumbing and Drainage Institute "Standard P.D.I. WH-201" The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25 %) of lead by weight.



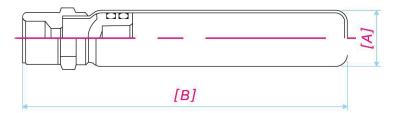
Sizing and Placement



As shown, it has been established that the preferred location for the water hammer arrestor is at the end of the branch line between the last two fixtures served.

The location of the water hammer arrestor shown above applies to branch lines that do not exceed 20 ft. (6m) in length, from the start of the horizontal branch line to the last fixture supply on this branch line. When the branch line exceeds the 20ft.(6m) length, an additional water hammer arrestor should be used. This practice is best defined by two rules which have been established to cover the placement of water hammer arrestors.

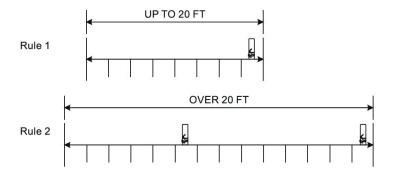
Dimensions and Weight



Suffix	Description
Α	Conn, Size 1/2" (15), Height 5.945" (151)
В	Conn, Size 3/4" (20), Height 7.264" (184.5)
С	Conn, Size 1" (25), Height 8.799" (223.5)
D	Conn, Size 1" (25), Height 9.941" (252.5)
Е	Conn, Size 1" (25), Height 12.697" (322.5)
F	Conn, Size 1" (25), Height 11.161" (283.5)

	Α	В	С	D	E	F
Fixture Unit	1-11	12-32	33-60	61-113	114-154	155-330
Α	1.125" (28.58)	1.125" (28.58)	1.625" (41.28)	2.125" (53.98)	2.125" (53.98)	2.625" (66.68)
В	5.945" (151)	7.264" (184.5)	8.799" (223.5)	9.941" (252.5)	12.697" (322.5)	11.161" (283.5)
Weight (kgs)	0.17	0.22	0.46	0.75	0.92	1.12





Rule 1 covers multiple fixture branch lines which do not exceed 20ft.(6m) in length. **Explanation** Fixture-unit sizing and selection table is used to select the required PDI unit (water hammer arrestor).

Rule 2 covers multiple fixture branch lines which do exceed 20ft.(6m) in length. **Explanation** Fixture-unit sizing and selection table is used to select the required PDI unit(water hammer arrestor).

The sum of the fixture units rating of units X and Y shall be equal to or greater than the demand of the branches.



Fixture Units Sizing Information

	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE UNITS				
FIXTURE		PUBLIC		PRIVATE		
	CONTROL	C.W.	H.W.	C.W.	H.W.	
WATER CLOSET	FLUSH VALVE	10	-	6	-	
WATER CLOSET	FLUSH TANK	5	(#C)	3	7.0	
PEDESTAL URINAL	FLUSH VALVE	10	-	-	-	
STALL OR WALL URINAL	FLUSH VALVE	5	-	-	-	
STALL OR WALL RINAL	FLUSH TANK	3	-	(=)		
LAVATORY	FAUCET	1 1/2	1 1/2	1	1	
BATHTUB	FAUCET	2	3	1 1/2	1 1/2	
SHOWER HEAD	MIXING VALVE	2	3	1	2	
BATHROOM GROUP	FLUSH VALVE CLOSET	-	(40)	8	3	
BATHROOM GROUP	FLUSH TANK CLOSET	-	-	6	3	
SEPARATE SHOWER	MIXING VALVE	-	-	1	2	
SERVICE SINK	FAUCET	3	3	(=)	10-	
LAUNDRY TUBS(1-3)	FAUCET	-		3	3	
COMBINATION FIXTURE	FAUCET	-		3	3	



About Albion Valves (UK) Ltd

Albion has been supplying valves and fittings to the building services and industrial markets for the past 40 years.

Albion was created with the sole purpose of providing quality products at an affordable price. With a growing reputation for quality and reliability, Albion is now an established brand providing the industry with a trusted alternative to premium-priced products.

Our commitment to setting the highest standards in all areas of our business means, if you're looking for quality, service, delivery and choice — you'll find it's all at Albion.

Quality

Whatever you need, you can rest assured that if it comes from Albion it has been designed and manufactured to deliver optimum performance and is accredited with the necessary approvals. Our inhouse quality department are always on hand too!

Service

We pride ourselves on our customer service – we have even won awards for it! Our cradle to grave approach means you will never be on your own!

Delivery

We know that time is money, and when a priority project depends on a part you can trust Albion to deliver – next day for all orders placed before 4:00PM.

Choice

We may have started out with a single brass ball valve, but our range has grown substantially since and we now consider ourselves to be a 'One Stop Shop' with our comprehensive range. It is becoming more and more apparent to the industry, that it really is all at Albion.