

# Lead Free Water Hammer Arrestor RWS-C

## Technical Data Sheet

### Product Overview

The RWS Water Hammer Arrestor (WHA) is a high-quality, piston-type surge pressure absorber designed to eliminate the effects of water hammer in plumbing systems. Water hammer is caused by the sudden stop of high-speed water flow, which creates pressure surges or spikes that can be damaging to pipes and appliances. The RWS WHA protects the plumbing system and helps ensure a long, trouble-free life for the pipe system.



### Key Features & Characteristics

- **Lead Free** The arrestor meets Lead Free requirements.
- **PDI Listed** PDI Listed (PDI WH201).
- **Construction Type** Copper Body Piston Type Water Hammer Arrestor.
- **Pre-Charged** Factory air charged and permanently sealed air chamber prevents air loss and insures long life.
- **Installation** May be installed in new or existing plumbing systems with a standard pipe tee.
- **Adaptability** Can be installed vertically, horizontally, or at any angle.
- **Accessibility** Approved for installation with no access panel required.
- **Connection** NPT solid hex Lead Free Brass adapter end connection for easy installation.

### Sizing and Selection Table (PDI Standards)

The PDI unit (water hammer arrestor) is selected by totalling the Fixture Unit (FU) ratings of the fixtures served by the branch line.

Technical Specification	
Item	Specification
Operating Pressure	Up to 150 PSI (10.6 bar) working pressure (domestic and commercial)
Max. Pressure	350 psig
Temperature Range	33°F to 180°F (0.5°C to 82°C)
Air Pre-Charge	60 PSI (4.2 bar)
Connection	Lead Free Adaptor Male NPT (and BSP) thread
Application Standards	ASSE 1010 ANSI/ASME A 111.26.1 PDI-WH201

Sizing and Selection Table (PDI Standards)				
PDI Symbol	Pipe Connection Size		Model Threaded	Fixture Unit (FU) Range
	(in)	(mm)		
A	1/2"	15	RWS-C-A	1-11
B	3/4"	20	RWS-C-B	12-32
C	1"	25	RWS-C-C	33-60
D	1 1/4"	32	RWS-C-D	61-113
E	1 1/2"	40	RWS-C-E	114-154
F	2"	50	RWS-C-F	115-352

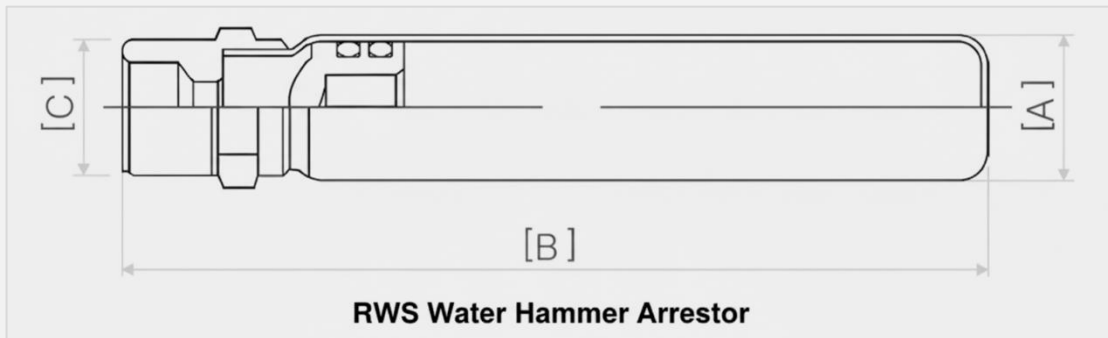
Construction Materials	
Component	Material
Body	Hard drawn copper barrel with custom internal mirror finish
Piston	Teflon or Polypropylene
Seals	(2) EPDM 'O'-rings
Adapter	Lead Free Brass

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### Dimension and Weights

SIZE	A (in)	A (mm)	B (in)	B (mm)	C (in)	Weight (kg)
RWS-C-A	1 1/8	28.58	5 15/16	151	1/2	0.17
RWS-C-B	1 1/8	28.58	7 5/16	185	3/4	0.22
RWS-C-C	1 5/8	41.28	8 13/16	224	1	0.46
RWS-C-D	2 1/8	53.94	10 3/16	253	1 1/4	0.81
RWS-C-E	2 1/8	53.94	12 11/16	323	1 1/2	1.12
RWS-C-F	2 5/8	66.64	12 15/16	284	2	2



### Installation Placement Rules

The preferred location for the WHA is at the end of the branch line between the last two fixtures served.

- **Rule 1 (Up to 20 FT):** Covers multiple fixture branch lines that **do not exceed 20 ft. (6m)** in length. The WHA is installed at the end of the line.
- **Rule 2 (Over 20 FT):** Covers multiple fixture branch lines that **do exceed 20 ft. (6m)** in length. An **additional** water hammer arrestor should be used