

SPECIFICATION | Products Pre- charged hard drawn copper surge pressure absorber with teflon piston, EPDM O- ring seals, and Lead Free Adaptor male NPT & BSP connection.

OPERATING PRESSURE | Designed to operate on all domestic and commerical lines upto 150 PSI working pressure.

TEMPERATURE RANGE | 33°F to 180°F (0.5°C to 82°C)

INSTALLATION | May be installed in new or existing plumbing systems with a standard pipe tee.

CONSTRUCTION

Bodies : Hard drawn copper with custom internal mirror finish.

Piston : Teflon

Seal Lubricant : Dow-Corning Silicone compound #111 FDA or equivalent approved for use in portable water system.

Seals : 'O'rings, (2) EPDM



Pipe Sizing (Select One)		
Suffix	Description	
WHA100-A	Conn, Size 1/2" (13), Height 151mm	<input type="checkbox"/>
WHA100-B	Conn, Size 3/4" (20), Height 185mm	<input type="checkbox"/>
WHA100-C	Conn, Size 1" (25), Height 224mm	<input type="checkbox"/>
WHA100-D	Conn, Size 1-1/4" (32), Height 253mm	<input type="checkbox"/>
WHA100-E	Conn, Size 1-1/2" (38), Height 323mm	<input type="checkbox"/>
WHA100-F	Conn, Size 2" (50), Height 284mm	<input type="checkbox"/>

Water Hammer Arrestors LEAD FREE*

Size : 1/2" -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 water hammer

Arrestors are designed to eliminate this effect 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 WATER HAMMER ARRESTERS OMEAX Series THREADED and SOLDER 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.



Threaded

■ Features

- NPT solid hex brass adapter end connection for easy installation
- 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.
- PDI 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

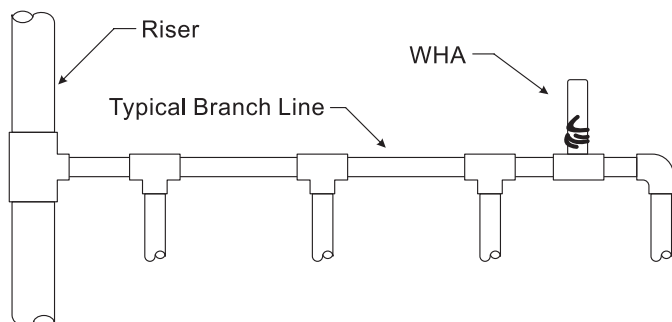
Body : Copper barrel

Piston : Polypropylene

Adapter : Lead Free* Brass

O-ring : EPDM

■ Sizing and Placement



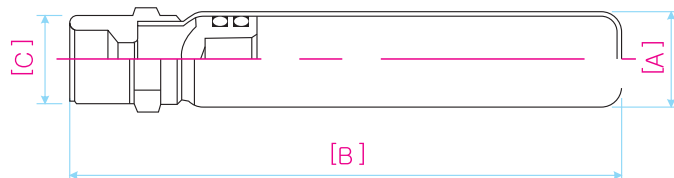
As shown, it has been established that the preferred location for the water hammer arrestor is at the end of the branch line between the last two fixtures served.

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.

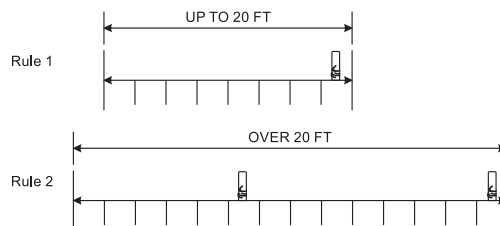
When the branch line exceeds the 20ft.(6m) length, an additional water hammer arrestor should be used.

This practice is best defined by two rules which have been established to cover the placement of water hammer arrestors.

■ Dimensions-Weight



SIZE	DIMENSION					Weight (kgs)
	A in mm		B in mm		C in	
THREADED						
A	1 1/8	28.58	5 15/16"	151	1/2	0.17
B	1 1/8"	28.58	7 5/16"	185	3/4"	0.22
C	1 5/8"	41.28	8 11/16"	224	1"	0.46
D	2 1/8"	53.94	10 3/16"	253	1 1/4"	0.81
E	2 1/8"	53.94	11 3/16"	323	1 1/2"	1.40
F	2 5/8"	66.64	12 15/16"	284	2"	2.0



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.

Sizing and Selection Table

PDI SYMBOL	SIZE in mm	MODEL Threaded	FIXTURE Unit
A	1/2 15	A	1-11
B	3/4" 20	B	12-32
C	1" 25	C	33-60
D	1 1/4" 32	D	61-113
E	1 1/2" 40	E	114-154
F	2" 50	F	155-330

■ Fixture Units Sizing Information

FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE UNITS			
		PUBLIC		PRIVATE	
		C.W.	H.W.	C.W.	H.W.
WATER CLOSET	FLUSH VALVE	10	-	6	-
WATER CLOSET	FLUSH TANK	5	-	3	-
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	-	-	8	3
BATHROOM GROUP	FLUSH TANK CLOSET	-	-	6	3
SEPARATE SHOWER	MIXING VALVE	-	-	1	2
SERVICE SINK	FAUCET	3	3	-	-
LAUNDRY TUBS(1-3)	FAUCET	-	-	3	3
COMBINATION FIXTURE	FAUCET	-	-	3	3