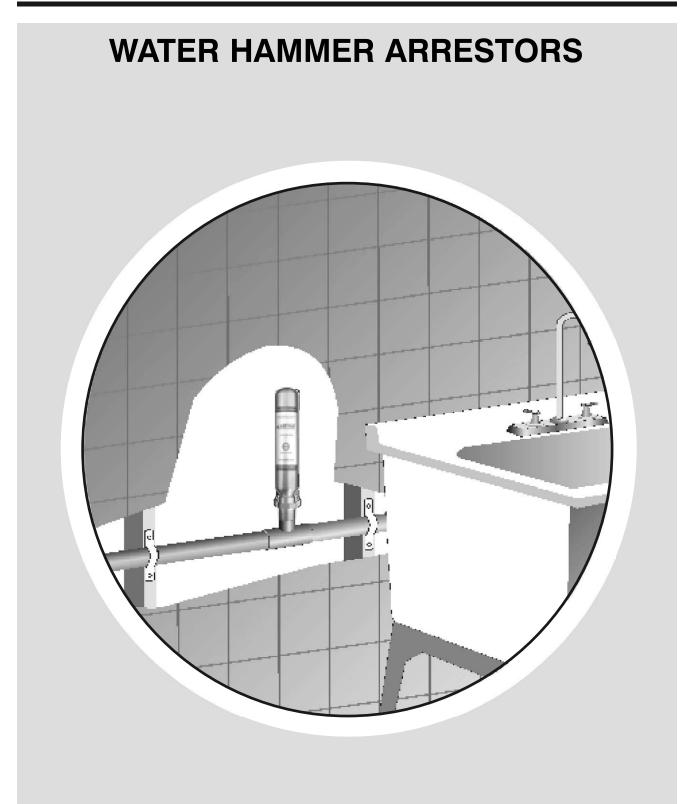


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### WATER HAMMER ARRESTOR SIZING

#### Single and Multiple Fixture Branch Lines

The water hammer arrestor sizing procedure for single and multiple fixtures described below conforms to that established by the American Society of Sanitary Engineers in their Standard ASSE-1010. Selection of the water hammer arrestor is based upon the total quantity of Fixture-Units on each cold and hot water branch line.

#### **Fixture-Unit Listing**

Determine the total number of Fixture-Units on each branch line by referring to the list of fixtures in Table One.

#### **Water Hammer Arrestor Selection**

Refer to Table Two and select the water hammer arrestor model with proper Fixture-Unit capacity. In long batteries of fixtures over 20 feet in length, more than one water hammer arrestor will be required. (See placement data shown below.)

## WATER HAMMER ARRESTOR PLACEMENT DATA

On multiple fixture branch lines up to 20 feet in length, the water hammer arrestor should be installed on the branch line between the last two fixtures being served. The water hammer arrestor should have a Fixture-Unit rating equal to or greater than the total Fixture-Units connected to the branch line.

On multiple fixture branch lines over 20 feet in length, two water hammer arrestors should be used on each line with the second unit placed at the approximate midpoint of the line. The sum of the Fixture-Unit ratings of the water hammer arrestors on each branch should be equal to or greater than the total Fixture-Units connected to the branch line.

#### Table One

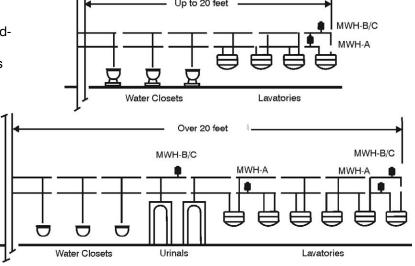
		Weight in Fixture Units Public Private				
Fixture	Type of Supply Control	C.W.	H.W.	C.W.	H.W.	
Water Closet Water Closet Pedestal Urinal Stall or Wall Urinal Stall or Wall Urinal Lavatory Bathtub Shower Head Bathroom Group Bathroom Group Separate Shower Service Sink Laundry Tubs (1-3)	Flush Valve Flush Tank Flush Valve Flush Valve Flush Tank Faucet Faucet Mixing Valve Flush Tank Closet Flush Tank Closet Mixing Valve Faucet Mixing Valve Faucet Faucet	10 5 10 5 3 1-1/2 2 2 - - - 3	- - - 1-1/2 3 3 - - - 3	6 3 - - 1 1-1/2 1 8 6 1 - 3	- - - 1 1-1/2 2 3 3 2 - 3	
Combination Fixture	Faucet	-	-	3	3	

#### **Table Two**

Water Hammer Arrestor Model No.	A	В	С	D	E	F
Fixture Unit Capacity	1-11	12-32	33-60	61-113	114-154	155-330

#### NOTES:

- (1) All sizing data in this book are based on flow velocities of 10 feet per second or less.
- (2) When the static water pressure in the line exceeds 65 psig, contact the MIFAB Engr. Dept.
- (3) If the fixture-unit total has 1/2" fraction, it is to be "rounded-up" to the next larger whole number. If the total is 11-1/2 fixture units, use 12 fixture units.



(Dimension Denotes Millimeters)

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