

## » SIZING & PLACEMENT GUIDE

For water hammer control in commercial plumbing applications, such as water closets, urinals and lavs in public restrooms, use the following sizing and placement guidelines based on fixture unit totals for EACH INDIVIDUAL HEADER/SUPPLY LINE.

### COMMERCIAL

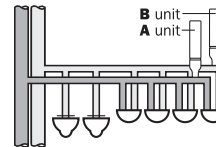


#### Multi-fixture Plumbing Groups

Applications: Plumbing fixtures in office buildings, retail, schools, hospitals, correctional facilities and public buildings.

#### Sizing/Placement

**Guideline:** The properly sized arrester corresponds to the total number of fixture units on each hot and cold branch line. Place each arrester at end of the branch line.



**Arrester Group:** Any ASSE 1010 Certified A, B, C, D, E, or F size arrester. Various connection size and type are for the installer's convenience.



### SIZING

- **STEP 1:** Define each plumbing group's header/supply line; one or more fixtures installed on a supply line less than 20 feet from first fixture to last, where the header is supplied from the side. For headers supplied from the middle, treat the left and right lines as individual headers. For headers longer than 20 feet flowing in the same direction, size as two or more individual headers. (e.g. 40 feet = size as 2 individual headers, 60 feet, size as 3 individual headers. See examples).
- **STEP 2:** Enter the number of fixtures of each fixture type on an individual header below. DO NOT total up fixtures for more than 1 header at a time. The guide will automatically calculate the appropriate HydraRester water hammer arresters for both hot and cold headers. Repeat the process for each individual header as defined in Step 1.

FIXTURE	QUANTITY	FIXTURE UNITS COLD	FIXTURE UNITS HOT
Water Closet, Flush Valve			
Water Closet, Flush Tank			
Pedestal Urinal, Flush Valve			
Wall Urinal, Flush Valve			
Lavatory			
Tub/Shower Mixing Valve			
Service Sink			

**TOTAL FIXTURE UNITS**

**ARRESTER NEEDED – COLD SIDE**

**ARRESTER NEEDED – HOT SIDE**

# HydraRester

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### PLACEMENT

Always install the properly sized arrester at or near the END of hat particular header. The “end” of the header can be defined as “between the last two fixtures,” or “within 6 feet of the last fixture.” In cases of headers longer than 20 feet, place the properly sized arrester for each 20 foot section at the end of that 20 foot section. For example, a 40 foot cold line header will be sized as two individual headers, and have an arrester placed at the END of the FIRST 20 foot section, and also at the END of the SECOND 20 foot section (See Figure 2).



**Figure 1**  
If 20ft or less, place one arrester 6ft or less from the end of the run.



**Figure 2**  
If more than 20ft, place arrester at the end of each 20-foot section, within 6ft of the end of that section..

