



JAY R. SMITH MFG. CO.®
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LOCATION

PISTON TYPE WATER HAMMER ARRESTERS

JAY R. SMITH MFG. CO.® SYSTEM RATED PLUS (FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS)

Maximum working pressure - Designed to keep residential, commercial and industrial water lines @ 350 p.s.i. maximum working pressure during pressure surges following quick valve closure. Working TEMPERATURE RANGE - From 33° to 250° F.

INSTALLATION

The piston unit can be installed in new construction or renovation/remodel by threading into properly sized female I.P.S. fitting (wrench on hex). It can be installed at any angle to accommodate structural limitations, and should be placed as close to the shut-off valve as possible, one on each hot and cold line. The piston unit is seamless, factory charged and is maintenance free and does not require access panels. It cannot be charged in the field.

TYPICAL INSTALLATIONS

- Properly sized and placed the piston unit can be set in a multiple fixture branch for commercial/institutional/industrial/residential applications.

PISTON UNITS Comply with the following:
 ASSE/ANSI 1010 Water Hammer Arrester Standard
 PDI WH-201 Water Hammer Arrester Standard

NOTE: Systems exceeding 60 PSI(414 kPa) shall have a pressure reducing valve installed upstream of the WHA units per ASSE 1010 WHA Standard. PDI WH-201 states the pressure should not exceed 55(379 kPa) psig.



FILE NO. 4785

LEAD FREE
 "CERTIFIED by IAPMO R & T"
 FILE NO. 8477
 (NSF/ANSI 372)

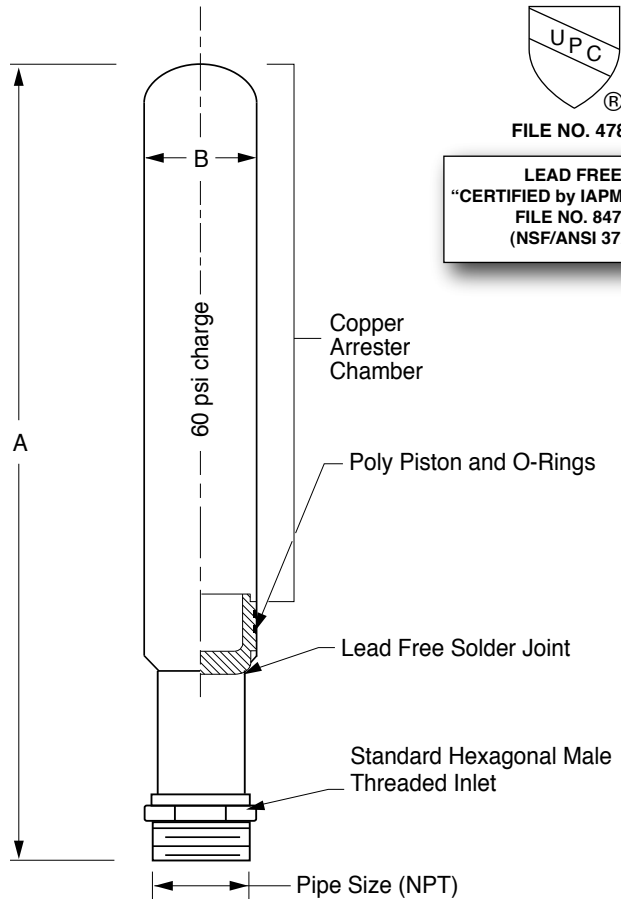
| Smith Fig. No. | Sizing Symbol | Dimensions | | Pipe Size NPT | Maximum Fixture Unit Capacity |
|----------------|---------------|---------------|------------|---------------|-------------------------------|
| | | A | B (DIA) | | |
| 520-A | A | 12 1/16"(306) | 1 3/8"(35) | 1/2"(13) | 32 |
| 520-B | B | 15 3/8"(391) | 1 3/8"(35) | 3/4"(19) | 60 |
| 520-C | C | 14 1/2"(368) | 2 1/8"(54) | 1"(25) | 113 |

NOTE: Dimensional data is subject to manufacturing tolerances and change without notice.

WATER HAMMER ARRESTER SIZING
 REFER TO PDI WH-201 (2017) WATER HAMMER ARRESTER STANDARD, TABLES IV AND V FOR FIXTURE UNIT VALUES AND SIZING.
www.pdionline.org

IMPORTANT
 INSTALL USING WRENCH ON HEX ABOVE THREADS TO PROTECT PRESSURE CHAMBER FROM DENTING.

NOTE: Dimensions shown in parentheses are in millimeters.



B
 DRAWING NUMBER
 S520 SERIES-A,-B,-C
 A
 NONE
 3-8-19
 JM
 TBW
 520 SERIES -A,-B,-C
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

| REV. | DATE | DESCRIPTION | BY | CKD. BY |
|------|---------|--------------------------------|-----|---------|
| B | 2-19-20 | Rev. Draw., Add LEAD FREE note | MW | CL |
| A | 8-22-19 | Revised Dim. A & B | TBW | JM |

| | |
|---------------|-------------------|
| WEIGHT POUNDS | VOLUME CUBIC FEET |
|---------------|-------------------|

FIGURE NUMBER
520 SERIES
-A,-B,-C