



SMITH
FLUID
CONTROLS®

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LOCATION

PISTON TYPE WATER HAMMER ARRESTERS

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. 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 with nitrogen and is maintenance free and does not require access panels. It cannot be charged in the field. For optimum performance, install the piston unit in a vertical position.

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.

Smith Fig. No.	Sizing Symbol	Dimensions		Pipe Size NPT	Fixture Unit Capacity
		A	B (DIA)		
520T-AA	AA	5 1/8"(130)	7/8"(22)	1/2"(13)	1 to 3
520T-A	A	6 "(152)	1 1/8"(29)	1/2"(13)	1 to 11
520T-B	B	7 1/4"(184)	1 1/8"(29)	3/4"(19)	12 to 32
520T-C	C	8 3/4"(222)	1 3/8"(35)	1"(25)	33 to 60
520T-D	D	10 3/16"(259)	1 5/8"(41)	1 1/4"(32)	61 to 113
520T-E	E	11 1/8"(283)	2 1/8"(54)	1 1/2"(38)	114 to 154
520T-F	F	13"(330)	2 5/8"(67)	2"(50)	155 to 330

♦♦ AA Size for use in residential applications only

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

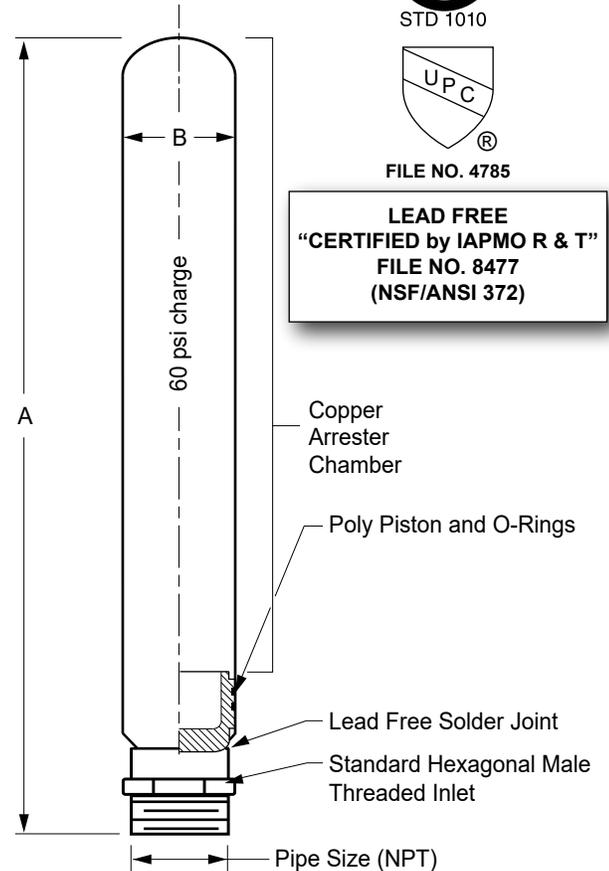
OPTIONAL MATERIALS

Nickel Plated -NP

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.



Listed:



FILE NO. 4785

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

E	DRAWING NUMBER S520-T SERIES				A	SCALE: NONE				DATE: 7-30-19	APPROVED BY: JM				DATE: 7-30-19	CHECKED BY: JM				DRAWN BY: TBW	FIGURE NUMBER 520-T SERIES			
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE																								
WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA																								
<p>520-T SERIES</p> <p>Revised INSTALLATION Added note under installation</p> <p>Revised Table Added OPTIONAL MATERIALS</p> <p>HS KK CL JM MW MW CL CL MW MW CL CL</p> <p>WEIGHT POUNDS VOLUME CUBIC FEET FIGURE NUMBER 520-T SERIES</p>																								
REV.		DATE		DESCRIPTION						BY		CKD. BY		WEIGHT POUNDS		VOLUME CUBIC FEET		FIGURE NUMBER 520-T SERIES						