



**JAY R. SMITH MFG. CO.**  
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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.

Listed:



FILE NO. 4785

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

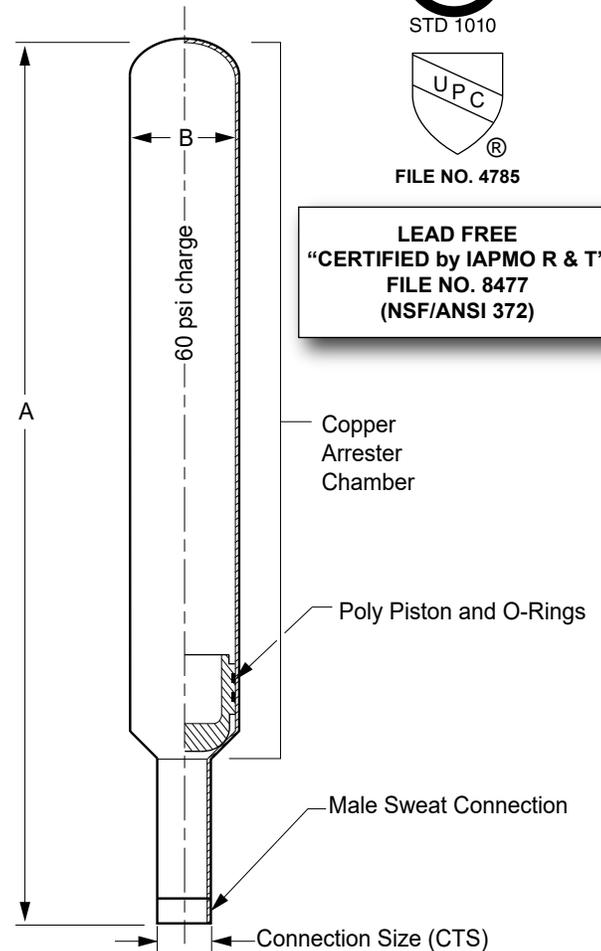
Smith Fig. No.	Sizing Symbol	Dimensions		Pipe Size CTS		Fixture Unit Capacity
		A	B (DIA)			
520SC-AA	AA	5 5/8"(143)	7/8"(22)	1/2"(13)	(5/8" OD)	1 to 3
520SC-A	A	6 9/16"(167)	1 1/8"(29)	1/2"(13)	(5/8" OD)	1 to 11
520SC-B	B	10 13/16"(275)	1 3/8"(35)	3/4"(19)	(7/8" OD)	12 to 32
520SC-C	C	14"(356)	1 3/8"(35)	1"(25)	(1 1/8" OD)	33 to 60
520SC-D	D	13 1/2"(343)	2 1/8"(54)	1 1/4"(32)	(1 3/8" OD)	61 to 113
520SC-E	E	13 1/4"(337)	2 5/8"(67)	1 1/2"(38)	(1 5/8" OD)	114 to 154
520SC-F	F	14 1/8"(359)	2 5/8"(67)	2"(50)	(2 1/8" OD)	155 to 330

◆◆ AA Size for use in residential applications only

**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](http://www.pdionline.org)

**NOTE:** Dimensions shown in parentheses are in millimeters.



E		
DRAWING NUMBER	S520-SC SERIES	
SIZE	A	
SCALE:	NONE	
DATE:	7-30-19	
APPROVED BY:	JM	
CHECKED BY:	JM	
DRAWN BY:	TBW	
FIGURE NUMBER	520-SC SERIES	
REV.	DATE	DESCRIPTION
E	1-29-24	Revised INSTALLATION
D	5-18-21	Added note under installation
C	9-15-20	Removed IMPORTANT Box
B	3-03-20	Revised Table
BY	CKD. BY	
HS	CL	WEIGHT POUNDS
KK	JM	VOLUME CUBIC FEET
MW	CL	FIGURE NUMBER
MW	CL	<b>520-SC SERIES</b>