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**JAY R. SMITH MFG. CO.®**  
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MEMBER OF:

LOCATION

# PISTON TYPE WATER HAMMER ARRESTER

## Jay R. Smith Mfg. Co.® HYDROTROL JUNIOR

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 with nitrogen 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.

Listed:



STD 1010



FILE NO. 4785

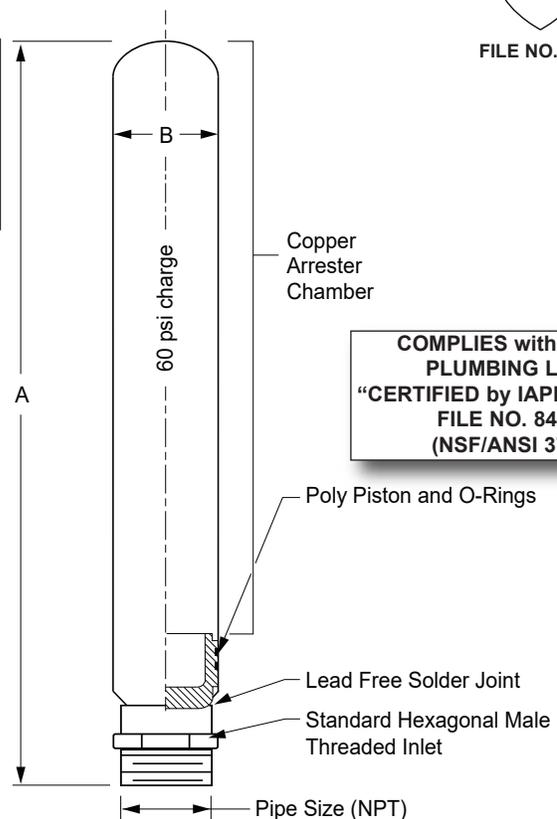
Size	Sizing Symbol	Smith Fig. No.	Air Charge	Dimensions		Fixture Unit Capacity
				A	B (DIA)	
1/2 (13) NPT	AA	5201	60 psig	5 1/8"(130)	7/8"(22)	1 to 3
1/2 (13) NPT	A	5205	60 psig	6"(152)	1 1/8"(29)	1 to 11
3/4 (19) NPT	B	5210	60 psig	7 1/4"(184)	1 1/8"(29)	12 to 32
1 (25) NPT	C	5220	60 psig	8 3/4"(222)	1 3/8"(35)	33 to 60
1-1/4 (32) NPT	D	5230	60 psig	10 3/16"(259)	1 5/8"(41)	61 to 113
1-1/2 (38) NPT	E	5240	60 psig	11 1/8"(283)	2 1/8"(54)	114 to 154
2 (50) NPT	F	5250	60 psig	13"(330)	2 5/8"(67)	155 to 330

◆ AA Size for use in residential applications only.

**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)

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

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



COMPLIES with LEAD  
 PLUMBING LAW  
 "CERTIFIED by IAPMO R & T"  
 FILE NO. 8477  
 (NSF/ANSI 372)

DRAWING NUMBER  
S5200 SeriesSIZE  
ASCALE:  
NONEDATE:  
4-28-92APPROVED BY:  
SJMCHECKED BY:  
JMDRAWN BY:  
EMB

5200 SERIES

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA  
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
	1-29-24 9-15-20 2-21-19 1-14-19	Revised INSTALLATION Removed Table Revised Title Revised Text, Added Notes	HS MW TBW TBW	CL JM JM JM			<b>5200 SERIES</b>



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)