



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 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

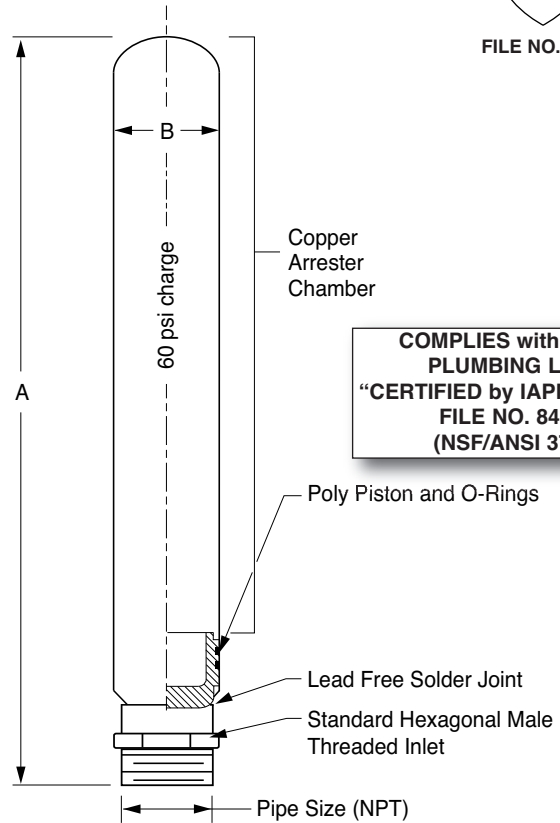
FIXTURE UNIT RATING TABLE GENERAL BUILDING AREAS

FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE - UNITS			
		PUBLIC		PRIVATE	
		C.W.	H.W.	C.W.	H.W.
Water Closet	Flush Valve - 1.6 GPF	8	-	5	-
Water Closet	Flush Tank - 1.6 GPF	5	-	3	-
Pedestal Urinal	Flush Valve - 1.06 GPF	4	-	-	-
Stall or Wall Urinal	Flush Valve - 1.06 GPF	4	-	-	-
Stall or Wall Urinal	Flush Tank	2	-	-	-
Lavatory	Faucet	1 1/2	1 1/2	1	1
Bath tub	Faucet	2	3	1 1/2	1 1/2
Shower head	Mixing Valve	2	3	1	2
Bathroom Group	Flush Valve Closet	-	-	8	3
Bathroom Group	Flush Tank Closet	-	-	6	3
Separate Shower	Mixing Valve	-	-	1	2
Service Sink	Faucet	3	3	-	-
Laundry Tubs (1-3)	Faucet	-	-	3	3
Combination Fixture	Faucet	-	-	3	3

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



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

NOTE: Dimensions shown in parentheses are in millimeters.

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

DRAWING NUMBER
S5200 Series

SIZE
A

SCALE:
NONE

DATE:
4-28-92

APPROVED BY:
SJM

CHECKED BY:
JM

DRAWN 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

N	2-21-19	Revised Title	TBW	JM	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
M	1-14-19	Revised Text, Added Notes	TBW	JM			
L	8-7-18	Added Notes, Revised Table	TBW	DP			
REV.	DATE	DESCRIPTION	BY	CKD. BY	5200 SERIES		