

WH2950XL Water Hammer Arrestor TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



FEATURES

Sizes: A B C D E

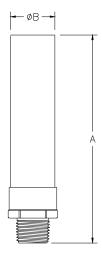
Temperature range End connections 33° F to 180°F Threaded ANSI/ASME B1.20.1

PRESSURE

Maximum transient pressure surge, with arrestor properly sized and placed in the water supply system, will not rise above 150 psi following quick valve closure. Maximum static pressure: 150 psi. For best performance, static line pressure should not exceed 85 psi; contact the factory for proper sizing if static pressure is greater.

DIMENSIONS & WEIGHTS (do not include pkg.)

AIR **DIMENSIONS** (approximate) FIXTURE PDI **MNPT** CHAMBER MODEL UNIT SIZE THD. VOLUME А В CAPACITY In.³[Cent.³] WH2950-A-XL 1 1/8[29] 3.5[57] A 1/2[15] 5 1/4[133] 1-11 WH2950-B-XL В 3/4[20] 5 5/8[143] 1 5/8[41] 4.3[70] 12-32 С WH2950-C-XL 1[25] 7 1/2[191] 1 5/8[41] 6.5[107] 33-60 WH2950-D-XL D 1[25] 9 5/16[237] 1 3/4[44] 10.0[164] 61-113 WH2950-E-XL E 1[25] 10 1/4[260] 2 1/2[64] 22.4[367] 114-154 WH2950-F-XL F 1[25] 10 7/8[276] 2 7/8[73] 34.4[564] 155-330



SPECIFICATIONS

The Water Hammer Arrestor shall be ANSI 3rd party certified to comply with states' lead plumbing law 0.25% maximum weighted average lead content requirement, consist of a copper body with a low lead brass hexagonal male pipe threaded inlet, an acetal, polycarbonate or low lead brass piston with Buna Nitrile or EPDM o-rings and lead free solder. The device shall be pre-charged and sealed at the factory.

PAGE 1 OF 2	ZURN LIGHT COMMERCIAL PLUMBING PRODUCTS							
		Rev.	Date: 10/02	2/12 C.N. No. 124776				
		Dwg. No. 3	10534	Product No. WH2950XL				

APPLICATION

Ideal for use where lead free fittings are required. Designed to protect residential, commercial and industrial water lines during pressure surges following quick valve closure. This excessive pressure surge is absorbed by the pre-charged cushion of air permanently sealed within the water hammer arrestor. The water hammer arrestor may be installed within a stud bay without the need for an access panel.

STANDARDS COMPLIANCE

- ASSE® Listed 1010
- ANSI A112.26.1

LEAD PLUMBING LAW COMPLIANCE

(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Lead Plumbing Law Certified by IAPMO R&T

MATERIALS

Body	Copper Tube (seamless, Type "L")
Tailpiece	Low Lead Brass
Piston	Acetal (NSF Listed) Polycarbonate or Low Lead Brass
O-rings Solder	Buna nitrile or EPDM (FDA approved) Lead Free



WH2950XL Water Hammer Arrestor TAG _____

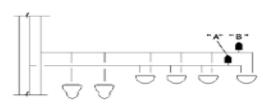
Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice SIZING & PLACING DATA

TABLE I						
MODEL WH2950XL (SIZES)	А	В	С	D	E	F
FIXTURE UNITS	1 TO 11	12 TO32	33 TO 60	61 TO 113	114 TO 154	155 TO 330

		TABLE		TION				1
	FIXTURE UN	ITS SIZING	INFORMA					
FIXTURE	TYPES OF SUPPLY CONTROL	FIXTURI			E-UNITS PRIVATE			-
FIATORE		TOTAL	C.W	H.W	TOTAL	C.W	H.W	-
WATER CLOSET	FLUSH VALVE	10	10	N/A	6	6	N/A	1
WATER CLOSET	FLUSH TANK	5	5	N/A	3	3	N/A	1
PEDESTAL URINAL	FLUSH VALVE	10	10	N/A	N/A	N/A	N/A	1
STALL OR WALL URINAL	FLUSH VALVE	5	5	N/A	N/A	N/A	N/A	1
STALL OR WALL URINAL	FLUSH TANK	3	3	N/A	N/A	N/A	N/A	
LAVATORY	FAUCET	2	1 1/2	11/2	1	1	1	
BATHTUB	FAUCET	4	2	3	2	1 1/2	1 1/2	
SHOWER HEAD	MIXING VALVE	4	2	3	2	1	2	
BATHROOM GROUP	FLUSH VALVE CLOSET	N/A	N/A	N/A	8	8	3	
BATHROOM GROUP	FLUSH TANK CLOSET	N/A	N/A	N/A	6	6	3	1
SEPARATE SHOWER	MIXING VALVE	N/A	N/A	N/A	2	1	2	1
SERVICE SINK	FAUCET	3	3	3	N/A	N/A	N/A	
LAUNDRY TUBS (1-3)	FAUCET	N/A	N/A	N/A	3	3	3	
COMBINATION FIXTURE	FAUCET	N/A	N/A	N/A	3	3	3	1

The fixture unit valves shown in Table II represent the standard ratings used by engineers to size water distribution systems and are also used to size water hammer arrestors. Match total fixture units to correct model of water hammer arrestors required from Table I. All sizing data in this brochure are based on flow velocities of 10 F.P.S. or less. The sizing method was designed with a maximum velocity of 10 F.P.S. to offer assurance that the Water Hammer Arrestor is capable of handling shock of maximum intensity that may be encountered.





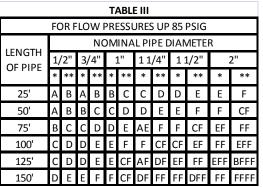
MULTI-FIXTURE BRANCH LINES

Rule 1 - Branch lines of 20 feet or less.

Water Hammer Arrestor should be placed at the end of the branch line between the last two fixtures served, as shown at right. Select required model using fixture unit sizing.

Rule 2 - Branch lines exceeding 20 feet.

An additional Water Hammer Arrestor should be placed as shown at right. Select required models using fixture unit sizing. The sum of the fixture unit ratings of units X and Y shall be equal to or greater than the demand of the branches.



LONG RUNS OF PIPING TO REMOTE EQUIPMENT

When long runs of piping are employed to serve a remote item of equipment, the Water Hammer Arrestor should be located as close as possible to the point of quick closure (see Fig. 4).

T0 20

The size and quantity of Water Hammer Arrestor to be installed in branch lines is shown in Table III. Ideally, the flow pressure in branch lines serving fixtures should never exceed 55 PSIG. Pressure reducing valves should be installed to maintain proper pressure. When, however, flow pressures of 65 to 85 PSIG are used, the next larger size Water Hammer Arrester should be selected (see Table III).



ZURN LIGHT COMMERCIAL PLUMBING PRODUCTS ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514 Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com