Selection for Long Piping Runs

The majority of sizing and selection applications will involve single and multiple fixture branch lines. These are easily handled with Table IV. The remainder of applications involves individual runs of piping to a remote item of equipment. The properly sized water hammer arresters for such applications can be determined by Table V and Table V-A.

TABLE V
FOR WATER PRESSURES UP TO 65 P.S.I.G.

P.D.I. Water Hammer Arrester Sizes						
Length of Pipe	Nominal Pipe Diameter					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	A	A	B	C	D	E
50	A	B	C	D	E	F
75	B	C	D	AE	F	EF
100	C	D	E	F	CF	FF
125	C	D	F	AF	EF	EFF
150	D	E	F	DF	FF	FFF

Ideally the flow pressure in branch lines serving fixtures should never exceed 60 P.S.I.G. Pressure reducing valves should be installed to maintain proper pressure. However, when flow pressures of 65 to 85 P.S.I.G. are used, the next larger size water hammer arrester should be selected. Refer to Table V-A.

All sizing data in this section are based on flow velocities of 10 F.P.S. or less. The certification testing was conducted with a velocity of 10 F.P.S. to offer assurance that P.D.I. approved units were capable of handling shocks of maximum intensity that may be encountered.

TABLE V-A
FOR WATER PRESSURES OVER 65 P.S.I.G. AND UP TO 85 P.S.I.G.

P.D.I. Water Hammer Arrester Sizes						
Length of Pipe	Nominal Pipe Diameter					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	B	B	C	D	E	F
50	B	C	D	E	F	CF
75	C	D	E	F	CF	FF
100	D	E	F	CF	EF	EFF
125	D	E	CF	DF	FF	BFFF
150	E	F	CF	FF	DFF	FFFF

When long runs of piping are employed to serve a remote item of equipment, the water hammer arrester should be located as close as possible to the point of quick closure. At this location, the water hammer arrester will control the developed energy and prevent the shock wave from surging through the piping system.

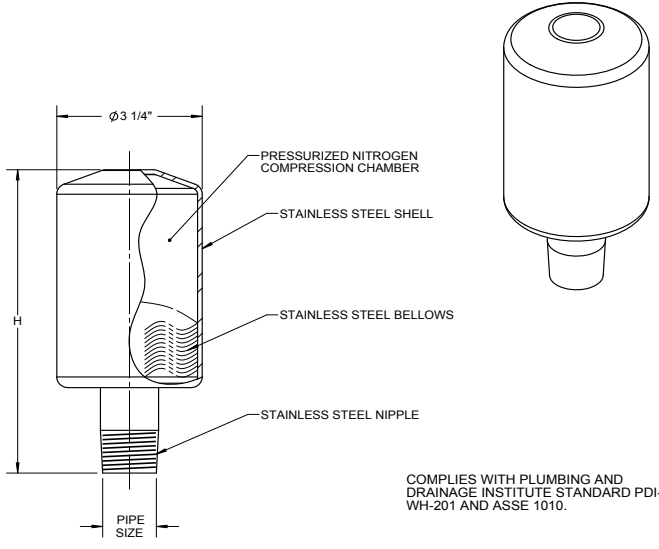
NOTE: For best performance results, the ABSORBOTRON® II should always be installed in an upright position and located as close as possible to the fixture or equipment closure valve.

SPECIFICATION:

JOSAM 75000 SERIES ABSORBOTRON II® SHOCK ABSORBER WITH STAINLESS STEEL SHELL. HYDRO-PNEUMATIC CUSHION OF NITROGEN, STAINLESS STEEL BELLOWS AND STAINLESS STEEL MALE THREADED PIPE NIPPLE.

SHOCK ABSORBER
STAINLESS STEEL

SERIES **75000**



COMPLIES WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201 AND ASSE 1010.

	PDI SIZE	FIXTURE UNITS	PIPE SIZE	H
	AA	1 -11	1/2	3-1/8 [80]
	A	1 - 11	3/4	3-1/8 [80]
	B	12 - 32	1	4 [102]
	C	33 - 60	1	4-5/8 [117]
	D	61 - 113	1	5-1/2 [140]
	E	114 - 154	1	7-1/16 [180]
	F	155 - 330	1	7-1/16 [180]

COMPLIES WITH LEAD-FREE REQUIREMENTS
LESS THAN 0.25% LEAD CONTENT OVER THE WETTED SURFACE AREA OF THE PRODUCT.

DATE OF LAST CHANGE: 05/04/15

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

JOSAM COMPANY
MICHIGAN CITY, INDIANA

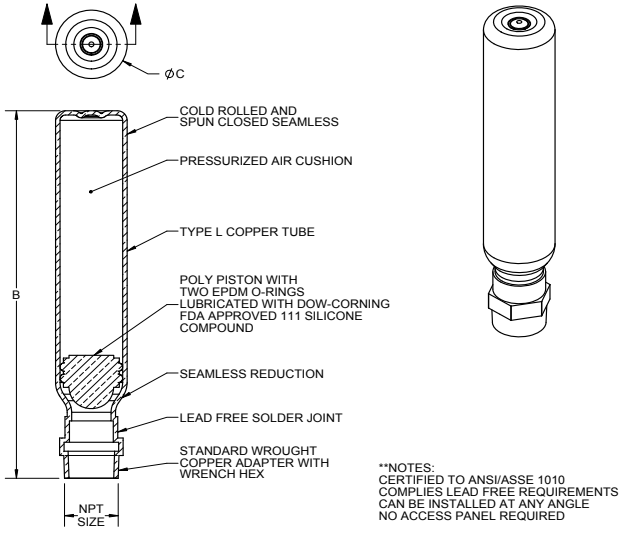
NOTES

SPECIFICATION:

JOSAM 75000-S SERIES ABSORBOTRON II SHOCK ABSORBER WITH WROUGHT COPPER SHELL, HYDRO-PNEUMATIC AIR CUSHION, WROUGHT COPPER ADAPTER AND MALE THREADED CONNECTIONS.

SHOCK ABSORBER
COPPER

SERIES **75000-S**



**NOTES:
CERTIFIED TO ANSI/ASSE 1010
COMPLIES LEAD FREE REQUIREMENTS
CAN BE INSTALLED AT ANY ANGLE
NO ACCESS PANEL REQUIRED

	SIZE	FIXTURE UNITS	THRD SIZE	B	C	MODEL
	A	1-11	1/2"	8-1/4	1-3/8	75001-S
	B	12-32	3/4"	8-3/4	1-3/8	75002-S
	C	33-60	1"	11	1-3/8	75003-S
	D	61-113	1"	10-1/8	2-1/8	75004-S
	E	114-154	1"	12-5/8	2-1/8	75005-S
	F	155-330	1"	15-1/8	2-1/8	75006-S

DATE OF LAST CHANGE: 04/30/15

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

JOSAM COMPANY
MICHIGAN CITY, INDIANA

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