

Related equipment Water Hammer Arrester

MOOHA

Water Hammer Arrester that smoothly absorbs and eases the water hammer.



Feature

Water Hammer Absorption

It can be directly connected in the piping that is different from the accumulator type. It has excellent water hammer absorption effect without inhibiting the fluid flow.

Easy Installation

It can be installed easily and freely even in a narrow space. Please choose a direction for installation according to the site situation.

Operating Conditions and Performance

Maximum allowable working pressure: 1.6MPa {16.3kgf/cm²} and below
Maximum operating temperature: 60 °C and below

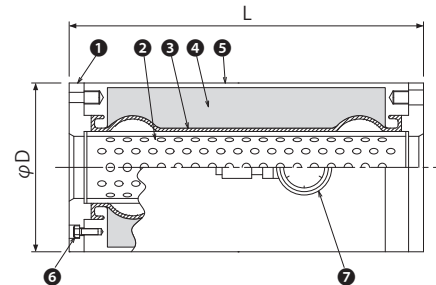
- Before using, check that the maximum working pressure and temperature are within the working range.

Perforated Pipe — Small holes are drilled in the pipe regularly placed in series with the flow, and connected with the inner side of the elastic tube.

Elastic Tube — The tube outside of the perforated pipe uses the rubber with excellent elasticity and airtightness, and the both ends are fixed with flanges.

Air Chamber — There is an air chamber between the tube and the casing. The 0.5MPa air is filled in advance in the air chamber.

Structure

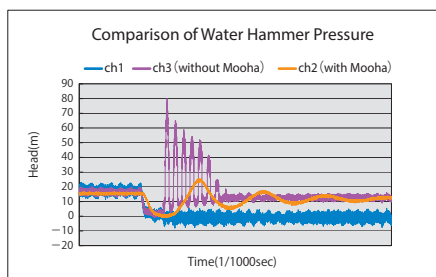
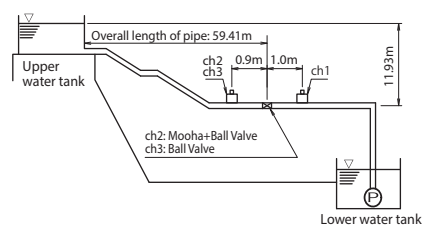


No.	Parts	Material	No.	Parts	Material
①	Flange	SS400	⑤	Casing	S20C
②	Perforated Pipe	PVC-U	⑥	Hex. Socket Head Cap Screw	S45C
③	Elastic Tube	CSM	⑦	Pressure Gauge	—
④	Air Chamber	Air is filled upon delivery.			

- The above materials given here are for the standard products.

	Standard	PN16
	changeable	
Flange compatible dimension	○	PN25
	○	JIS10K
	○	JIS20K
	○	ANSI 150LB
Material	Standard	SS400
	×	FCD450
	○	SUS304
	○	SUS316
	×	PVC

Comparison of Water Hammer Pressure



From the above comparison table, the water hammer pressure with Mooha installation is 1.5 times of the water pressure before shielding with the ball valve, and 4.3 times in case of without Mooha installation. So the water hammer difference between with and without Mooha is about 68% attenuated. In addition, according to the long period of the water hammer waveform, the relaxation of the pressure and the shock force due to water hammer could be confirmed.

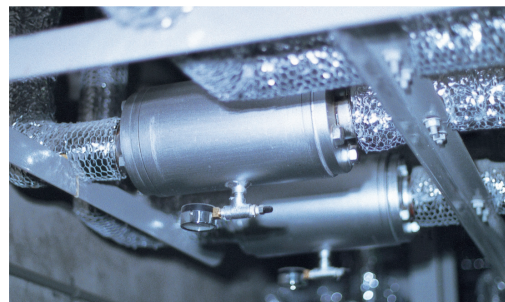
Dimensions

Model	Nominal Dia. [mm]	Dimension [mm]		Capacity of Air Chamber [ℓ]	Mass [kg]
		φ D	L		
MH-25	25	127	156	1	7
MH-50	50	168	270	3	16
MH-80	80	194	380	6	28
MH-100	100	219	440	8	36
MH-125	125	273	560	16	66
MH-150	150	325	640	27	97

- Bolts are provided.
- Mass and air chamber capacity given here are for the standard products with PN16 flange.

Performance

When the pressure wave that generates water hammer passes through the Mooha, its pressure is transmitted to the tube through the pipe. The tube that keeps balance in the normal pressure is instantly swollen due to its elasticity, and serves to absorb the water hammer.



This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

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