

Water Hammer Alleviator. Pump Startup Surge Preventor. Pipe Shock Attenuator RFQ

Form for submitting your application requirement to reduce pipe shock, water hammer, and pump startup surge, to receive a quotation for hardware from: www.shockguard.co.uk & shock-guard.com

ShockGuard The Large Pipeline Shock Prevention People for 40 years.

For fastest response, please print this form, fill out hardcopy, and fax to USA 910-270-0320 or international --44(0)161-480-9627

A. Contact Information

REQUIRED FIELDS ARE DENOTED BY AN ASTERISK *

Company *	<input type="text"/>	Telephone Number *	<input type="text"/>
Contact Name *	<input type="text"/>	Fax Number *	<input type="text"/>
Position	<input type="text"/>	Email Address	<input type="text"/>

Physical Address

Street / Box Number *	<input type="text"/>	State / Province, Etc. *	<input type="text"/>
Additional Info.	<input type="text"/>	Postal / Zip Code *	<input type="text"/>
Town / City Name *	<input type="text"/>	Country *	<input type="text"/>

B. Liquid

Viscosity cP (@ Pumping Temp) *	<input type="text"/>	Specific Gravity SG (Grams / cm3) *	<input type="text"/>
Flow Rate *	<input type="text"/>	Frequency (Hz) Cycles per Second	<input type="text"/>
Operating Pressure *	<input type="text"/>	Acoustic Velocity (M/s)	<input type="text"/>
Operating Temperature *	<input type="text"/>	Minimum Design Metal Temp. MDMT *	<input type="text"/> C
		Design Temperature *	<input type="text"/> C

C) System Information

If In Doubt Please Call USA 1-910-270-2737 UK --44(0)161-480-9625

Mass that is in Motion Internal Diameter of Pipe (Or average)

Internal Diameter of Pipe (Or average) * mm

Length of Pipe Run (From Pump or Main) See X below * M

Mass Velocity, EX/EG kg/sec *

Time (Seconds) for Mass Acceleration or Deceleration (See Y below) *

Theoretical Steady State Pressure in motion * kgCm²

Compatible Materials of Construction

Liquid Wetted Metal Parts	<input type="text"/>
Liquid Wetted Plastic Parts	<input type="text"/>
Liquid Wetted Elastomer Parts (Synthetic Rubber)	<input type="text"/>

Externals

Preferred Outer Housing	<input type="text"/>
Paint or Coating Spec.	<input type="text"/>

Connectivity

Connection Size	<input type="text"/>
Connection Type	<input type="text"/>
Connection Rating	<input type="text"/>

Items that reduce the peak pressure generated

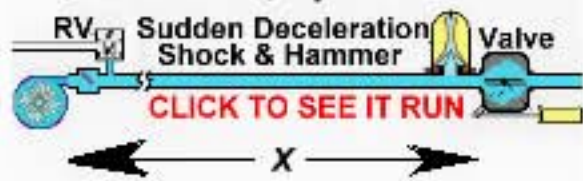
And accordingly the size and cost of your alleviator / attenuator / hammer reducer / Stabilizer / Absorber / Protector :-

Elasticity of the pipe wall - Pipe Modulus (Pascals -Pa) With Pipe Wall Thickness	<input type="text"/>
Pressure loss (drop) form cP & SG (listed above)	<input type="text"/>
Compressibility of the fluid (EX Water 50e10 ⁻⁶)	<input type="text"/>

APPLICATION TYPE Please State 1, 2, or 3 (or 4 = Other) *

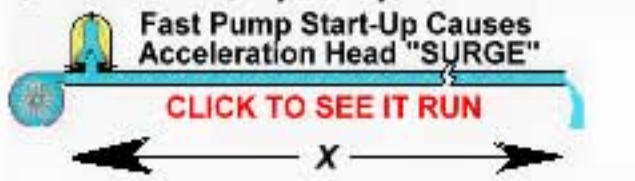
1) Fast Valve Closure Shock

Y Seconds, open to closed.



2) Pump Start-Up Surge

Y Seconds, Spin Up to Full RPM



3) Pump Stop, Back-Flow Implosion

Reverse Flow Void Collapse



D) Absorber Preference

For:- Type of Pump Start-up Surge Reducers, Water Hammer stabilizers, Valve Closure Shock Alleviators

Liquid in Bladder Designation :SUG	Liquid outside Bladder JOF	Float in Pipe FLOT	Liquid in SS Bellows BELO
For Corrosive Liquids CLICK TO RUN	For Non-Corrosive Liquids CLICK TO RUN	For Above 2000 Liter Bladder Types CLICK TO RUN	For High and Low Temperature Systems CLICK TO RUN

Please enter the type designation for your choice of system protector.

Sign

Date

E) OBJECTIVE Reduce the maximum pressure generated to : *