

## Pulsation-Dampeners.com Request for Quotation of Pulse Dampers

This form can be used to submit your particular hardware specifications so a pulsation dampener quote can be prepared. For facts regarding why certain fields are required download the [complete informational quotation form](#). (Note: the form in the above available version will need to be printed and transmitted via fax to submit your inquiry, and the form below can be automatically sent upon completion or faxed for faster processing.) **REQUIRED FIELDS ARE DENOTED WITH AN ASTERISK (\*)**.

### A) Contact Information:

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

### Physical Address

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

### B) Liquid Details:

System Liquid *	<input type="text"/>	SG (grams per cm3)	<input type="text"/>
Viscosity (cP at pump temp)	<input type="text"/>	Frequency (Hz)	<input type="text"/>
Flow Rate *	<input type="text"/>	Acoustic Velocity (M/S)	<input type="text"/>
Operating Pressure *	<input type="text"/>	MDMT	<input type="text"/>
Operating Temperature *	<input type="text"/>	Design Temperature	<input type="text"/>

### C) Pump Information:

#### PUMP TYPE CHOSEN FOR YOUR SYSTEM

*You may click on your pump choice to see it running.*

Pump types lettered A through M below are in increasing order of "pulsatiousness". For example at a given flow & pressure, a type B will only require say 1/50th the dampening of a type M, for a specific level of smoothness.

For the most cost effective dampener selection, it is advisable to enter the letter for your pump type in the box.

<b>— ROTARY PUMPS —</b>						<b>— RECIPROCATING —</b>				<small>NOTE: "K" INCLUDES DOUBLE LAYER DIAPHRAGM.</small>	<b>AODeD or OTHER</b>		
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>K</b>	<b>L</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>P</b>
<small>CENTRIF. VANE GEAR LOBE HOSE PC &amp; SCREW</small>						<small>M.PLEX PAK-PLNGR DIAP. HEAD CAM. SOL. INTENSIFIER</small>				<small>AIR OP. DOUBLE ENDED DIAPHRAGM</small>		<small>Please describe</small>	
						<small>NOTE: "L" INCLUDES SOLENOID</small>							

Enter the letter for your choice of pump type: \*

Please complete **ONE** section below, determined by your pump type. \*

#### 1) For rotary pumps:

Number of Displacers

(vanes, lobes, etc.) \*

RPM of Pump,

[CLICK to see Example \\*](#)

#### 2) For reciprocating pumps:

Number of Heads \*

Piston Diameter

Stroke Length

Single or Double Acting \*

Strokes per Minute (SPM) \*

#### 3) For AODeD or other:

Reversals per Minute \*

### D) Dampener Information:

#### PULSATION DAMPENERS TYPE CHOICES

*You may click on the type of dampener of your choice to see it working.*

The best economy of pulsation dampener to choose will depend on the characteristics of the dampener to respond at the frequency of your system. The membranes of dampeners suffer from "phase lag" above a given frequency.

<b>Up to 10 Hz</b> <b>FLEXORBER</b> LP HP for corrosives	<b>Up to 2 Hz</b> <b>PUMPGUARD</b> 3" Thru. 12" PIPE Sludge & Slurry	<b>Up to 40 Hz</b> <b>PIPEHUGGER</b> LP HP In place flushible	<b>Up to 15 Hz</b> <b>PIPEGUARD</b> gas in a bag	<b>20 Hz &amp; above</b> <b>WAVEGUARD</b> -- Dissipative.	<b>100 Hz &amp; above</b> <b>COMBINATION</b> -- Dissipative & dispersal	<b>250 Hz &amp; above</b> <b>CERAMIC</b> by Dispersion only		
<b>PTFE DIAPHRAGM</b> Type designation:- <b>Sog Flo</b>	<b>DAMPENERS WITH EPDM, BUNA N, &amp; FLUORO. MEMBRANES</b>			<b>NO MOVING PARTS "ACOUSTIC" DAMPENERS</b>				
<b>Pug</b>	<b>Peg</b>	<b>Phr</b>	<b>PigLP</b>	<b>PigHP</b>	<b>Pig-Plas</b>	<b>Wag/RJ</b>	<b>Wag/Combo.</b>	<b>Wag/Ceram</b>

Enter the type designation for your choice of dampener:

Type of Installation: \*  Discharge  Suction  Both

Compatible Materials - Nitrogen Cushion Housing (Body / Shell)

Compatible Materials - Liquid Wetted Parts

Compatible Materials - Membranes / Seals (Non-metal)

Empty rectangular input boxes for material compatibility.

E) Level of Dampening / Residual Pulsation:

SOME PULSATION DAMPENER APPLICATIONS You may click on a picture to see the application working.

Grid of 12 application categories: PIPE FATIGUE FRACTURE PROTECTION, DRIVE TRAIN DAMAGE, SAFETY VALVE WEEPING, PRESSURE INSTRUMENT FAILURE, IMPROVE STATIC MIXING, JERK FREE FLOW SMOOTHING, PADDLE WHEEL METER ACCURACY, REMOVE THE RETURN SHOCK, PREVENT OVER EXCITATION OF VIBRATING TUBES, STOP VORTEX INPUT BEFORE THE METER, and A DIFFERENT APPLICATION. Each category has a small illustrative image.

POSSIBLE REQUIRED LEVELS OF RESIDUAL PRESSURE PULSATION & or FLOW FLUCTUATION

Table with 11 columns (A-P) and 1 row showing percentages: 12%, 9%, 5%, 4%, 3%, 2%, 1.5%, 1%, 0.75%, and ?%. Includes a note: 'From 1% to 15%, Please click here to see API nomogram'.

Different types of system have their own pulsation characteristics, any of which may need to be reduced to a level of smoothness that matches a measurement, control, or safety need. Two systems at identical pressure and flow could need totally different dampeners.

Enter the letter for your choice of application: \*

Input box for application choice letter.

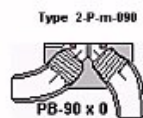
F) Connection Information:

PULSATION DAMPENER CONNECTION OPTIONS

- 2 connection Flow Through, pressure pulse interception plus flow fluctuation smoothing, -

Piping Sub-Base-Blocks Normally welded into system, dampeners are released with 4 bolts. Orientations

The most popular base blocks - Minimum lead time.



Click here to see other options.

Enter the type for your choice of connection option:

Connections - Sizes

Inlet input box

Radio buttons for 90x0, 90x90, 45x45

Connections - Type (Screwed, Flanged, Weld Prep) \*

Input box for connection type

G) Application Information:

Application In (check all that apply): \*

- Line Shock
Pulsation
Pipes 100m (100 yards) up to 1000m (1000 yards)
Packaged System - Ignore external pipes
Pump Set - Forcing Action Only

Application For (check one):

- Pressure, Flow, with Frequency Responses
Pressure pulsation (and Flow) Stabilization
Flow Fluctuation Reduction Only (single connection)

Other input box for application information

Other input box for application information

H) Other Related Information:

Large empty input box for other related information.

It is assumed that the equipment will be mounted and installed according to the Installation, Operation, and Maintenance Manual (ESR 3.4). In the event that external pressure exceeds one atmosphere, please state the external pressure. (ESR 2.2.2). NDT Non Destructive testing is in accordance with PED 5500 code requirements. (ESR 7.2). For information about why certain fields are required download the complete informational quotation form.

USA: Please print and fax this form to 1-910-270-0320 or 1-888-THRU-FLO for fastest service

UK: Please print and fax this form to --44-161-480-9627 for fastest service