

# PULSAFEEDER®

Pulsafeeder's Pulsation Dampeners improve pump system efficiency by removing pulsating flows from positive displacement pumps, insuring a smooth and continuous fluid flow and metering accuracy, eliminating pipe vibration and protecting gaskets and seals. The result is a longer lasting safer system.

Compressed air or gas is introduced into the air chamber of the Pulsation Dampener to a specified pressure. The gas is entrapped by the elastomeric bladder, which prevents contact between the process fluid and compressed gas. During pump discharge, fluid enters the wetted chamber of the Pulsafeeder Pulsation Dampener, displacing the bladder, compressing the gas and absorbing the shock. During pump shift, liquid pressure decreases, the dampener gas expands, pushing fluid back into the process line.

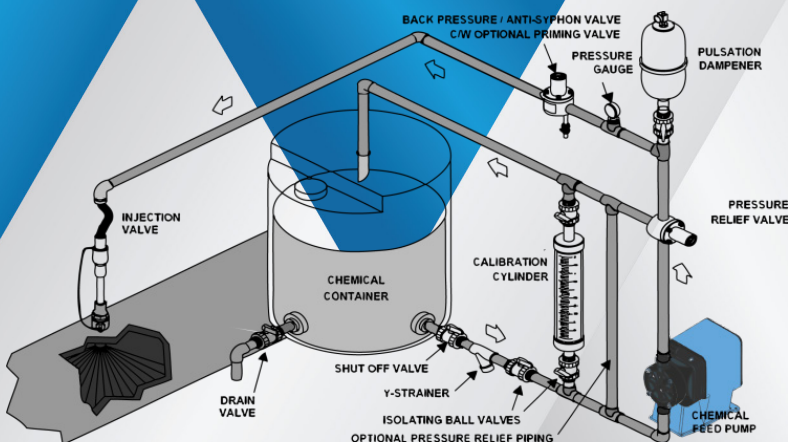
Whether a piston, plunger, air diaphragm, peristaltic, gear, or diaphragm metering pump a Pulsafeeder Pulsation Dampener placed at the pump's discharge will produce a steady fluid flow up to 99% pulsation free; protecting the entire pumping system from the damaging effects of shock.

## Features

- Quick Installation
- In-line Maintenance
- Bodies in a full range of Chemical Resistant materials
- Bladders for even the most corrosive applications

## Operating Benefits

- Produces near steady fluid flow
- 99% pulsation and vibration free
- Protects pumping system from pulsation, water hammer, vibrations, and more



## Aftermarket

- Double Wall Containment Tanks from 15 to 500 gallons.
- 1, 2, or 4 Drum Spill Containment Pallets.
- Loading Ramp and Pallet with or without Cover.



**Pulsation Dampener**

# Pulsation Dampener

## Specifications and Model Selection

### 150 PSI Pulsation Dampeners - Chargeable

Volume	Body	Bladder	Connection	Part Number	
10 cubic inches	POLY	EPDM	3/8" FNPT	NA601038-FPPE	
		CSPE	3/8" FNPT	NA601038-FPPC	
		TFE	3/8" FNPT	NA601038-FPPT	
		Viton	3/8" FNPT	NA601038-FPPV	
		CSPE	1/2" FNPT	NA601050-FPPC	
		TFE	1/2" FNPT	NA601050-FPPT	
	PVC	Viton	1/2" FNPT	NA601050-FPPV	
		CSPE	1/2" FNPT	NA601050-PVCC	
		TFE	1/2" FNPT	NA601050-PVCT	
		Viton	1/2" FNPT	NA601050-PVCV	
		PVDF	EPDM	3/8" FNPT	NA601038-PVDE
			CSPE	3/8" FNPT	NA601038-PVDC
	TFE		3/8" FNPT	NA601038-PVDT	
	Viton		3/8" FNPT	NA601038-PVDV	
	316 SS		EPDM	3/8" FNPT	NA601038-316E
			CSPE	3/8" FNPT	NA601038-316C
		TFE	3/8" FNPT	NA601038-316T	
		Viton	3/8" FNPT	NA601038-316V	
85 cubic inches		POLY	EPDM	3/4" FNPT	NA608575-FPPE
			CSPE	3/4" FNPT	NA608575-FPPC
	TFE		3/4" FNPT	NA608575-FPPT	
	Viton		3/4" FNPT	NA608575-FPPV	
	PVDF		EPDM	3/4" FNPT	NA608575-PVDE
			CSPE	3/4" FNPT	NA608575-PVDC
		TFE	3/4" FNPT	NA608575-PVDT	
		Viton	3/4" FNPT	NA608575-PVDV	
		316 SS	EPDM	3/4" FNPT	NA608575-316E
			CSPE	3/4" FNPT	NA608575-316C
	TFE		3/4" FNPT	NA608575-316T	
	Viton		3/4" FNPT	NA608575-316V	

### 150 PSI Pulsation Dampeners - Chargeable

Volume	Body	Bladder	Connection	Part Number		
370 cubic inches	POLY	EPDM	2" FNPT	NA637020-FPPE		
		CSPE	2" FNPT	NA637020-FPPC		
		TFE	2" FNPT	NA637020-FPPT		
		Viton	2" FNPT	NA637020-FPPV		
		PVDF	EPDM	2" FNPT	NA637020-PVDE	
			CSPE	2" FNPT	NA637020-PVDC	
	TFE		2" FNPT	NA637020-PVDT		
	Viton		2" FNPT	NA637020-PVDV		
	316 SS		EPDM	2" FNPT	NA637020-316E	
			CSPE	2" FNPT	NA637020-316C	
		TFE	2" FNPT	NA637020-316T		
		Viton	2" FNPT	NA637020-316V		
		36 cubic inches	POLY	EPDM	3/4" FNPT	NA603675-FPPE
				CSPE	3/4" FNPT	NA603675-FPPC
	TFE			3/4" FNPT	NA603675-FPPT	
	Viton			3/4" FNPT	NA603675-FPPV	
	PVDF			EPDM	3/4" FNPT	NA603675-PVDE
				CSPE	3/4" FNPT	NA603675-PVDC
TFE			3/4" FNPT	NA603675-PVDT		
Viton			3/4" FNPT	NA603675-PVDV		
316 SS			EPDM	3/4" FNPT	NA603675-316E	
			CSPE	3/4" FNPT	NA603675-316C	
	TFE		3/4" FNPT	NA603675-316T		
	Viton		3/4" FNPT	NA603675-316V		
	175 cubic inches		POLY	EPDM	2" FNPT	NA617520-FPPE
				CSPE	2" FNPT	NA617520-FPPC
TFE				2" FNPT	NA617520-FPPT	
Viton				2" FNPT	NA617520-FPPV	
PVDF				EPDM	2" FNPT	NA617520-PVDE
				CSPE	2" FNPT	NA617520-PVDC
		TFE	2" FNPT	NA617520-PVDT		
		Viton	2" FNPT	NA617520-PVDV		
		316 SS	EPDM	2" FNPT	NA617520-316E	
			CSPE	2" FNPT	NA617520-316C	
TFE			2" FNPT	NA617520-316T		
Viton			2" FNPT	NA617520-316V		

Specifications: 150 PSI Maximum Pressure

## Engineering Data

### Body Materials:

Polypropylene  
PVC  
PVC  
PVDF

**Pressure Rating at Ambient Temp:** Up to 150 PSI (10 BAR)  
**Temperature Range:** -20°F to +250°F  
(-29°C to +121°C)

### Body Materials:

316 SS

**Pressure Rating at Ambient Temp:** Up to 150 PSI (10 BAR)  
**Temperature Range:** -60°F to +400° F  
(-51°C to +204°C)

### Bladder Compound:

EPDM -60°F to +280°F (-51°C to +137°C)  
CSPE -20°F to +275°F (-29°C to +135°C)  
Viton -10°F to +350°F (-23°C to +176°C)  
PTFE +40°F to +220°F (+4°C to +104°C)

### Applications:

EPDM -Use in extreme cold; good chemical resistance with ketones, caustics  
CSPE -Excellent abrasion resistance; good in aggressive acid applications.  
Viton - Use in hot & aggressive fluids; good with aromatics, solvents, acids and oils.  
PTFE - Bellows design; excellent flex life; use with highly aggressive fluids.

Viton is a registered trademark of E.I. DuPont Company.

## Custom Engineered Designs – Pre-Engineered Systems



### Pre-Engineered Systems

Pulsafeeder's Pre-Engineered Systems are designed to provide complete chemical feed solutions for all electronic metering applications. From stand alone simplex pH control applications to full-featured, redundant sodium hypochlorite disinfection metering, these rugged fabricated assemblies offer turn-key simplicity and industrial-grade durability. The UV-stabilized, high-grade HDPE frame offers maximum chemical compatibility and structural rigidity. Each system is factory assembled and hydrostatically tested prior to shipment.

**PULSAFEEDER**

27101 Airport Road  
Punta Gorda, FL 33982  
Phone: +1(941) 575-3800  
Fax: +1(941) 575-4085

www.pulsatron.com



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