

# 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.

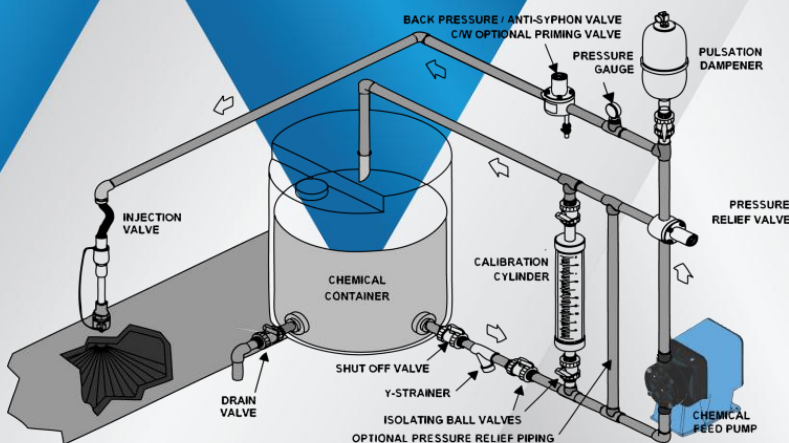
Whether a piston, plunger, air diaphragm, peristaltic, gear, or diaphragm metering pump a Pulsafeeder Pulsation Dampener placed at the pump's discharge will produce a steady fluid flow up to 99% pulsation free; protecting the entire pumping system from the damaging effects of shock.

## 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
	PVDF	Viton	1/2" FNPT	NA601050-PVCV
		EPDM	3/8" FNPT	NA601038-PVDE
		CSPE	3/8" FNPT	NA601038-PVDC
	316 SS	TFE	3/8" FNPT	NA601038-PVDT
		Viton	3/8" FNPT	NA601038-PVDV
		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
		EPDM	3/4" FNPT	NA608575-316E
	316 SS	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		
		EPDM	2" FNPT	NA637020-316E		
	316 SS	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		
		EPDM	3/4" FNPT	NA603675-316E		
316 SS		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		
	EPDM		2" FNPT	NA617520-316E		
316 SS	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 4000 PSI (276 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.



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

www.pulsatron.com



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