

# ACCU-PULSE

## Pulsation Dampeners



***ACCU-PULSE Pulsation Dampeners have been developed to remove pulsating flows from positive displacement pumps providing:***

- increased system efficiency and pump life
- protection of pipes, meters, valves and instrumentation from pulsation and vibration
- meter accuracy, longevity and repeatability
- prevention of foaming and splashing
- decreased maintenance and costs

### ***Standard Features Include:***

- lightweight, compact design
- extensive range of materials and sizes
- easy in-line maintenance
- 2 year warranty

***For detailed product information visit our website: [primaryfluid.com](http://primaryfluid.com)***



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# ACCU-PULSE Pulsation Dampeners

## Dampener Sizing Guide Standard Simplex Metering Pumps:

**Note:** Separate sizing guide available for air operated double diaphragm pumps.

The following are general ranges for sizing ACCU-Pulse Pulsation dampeners for metering pump applications. Models stated are based on 10% pressure fluctuations and a Simplex single acting metering pump. For 5% pressure fluctuation, divide the Capacity per Stroke Range numbers in the chart below by 2.

To calculate cubic inches per stroke:  $\frac{\text{gallons per minute}}{\text{strokes per minute}} = \text{gallons per stroke}$

Gallons per stroke X 231 cu inches per gallon = cubic inch per stroke

**Example:**  $\frac{.15}{100} = .0015 \text{ GPS}$  Therefore:  $.0015 \times 231 = 0.3465 \text{ Cubic inches per stroke}$   
= API Dome Top Dampener

Capacity per Stroke Range	Accu-Pulse Dampener
0 to 0.22 Cubic Inches	APIF Flat Top
0.23 to 0.75 Cubic Inches	API Dome Top
0.76 to 2.71 Cubic Inches	APIIF Flat Top
2.72 to 6.40 Cubic Inches	APII Dome Top
6.41 to 12.96 Cubic Inches	APIIIF Flat Top
12.97 to 27.89 Cubic Inches	APIII Dome Top

### Note:

For other pump factors, or residual pulsation, contact factory.

## Ordering Information

**Example: Part #** AP - I - PVC - E - 1 - E

### ACCU-PULSE

AP = Standard 150/300 PSIG  
 APH = High Pressure 1000/600 PSIG  
 APX = High Pressure 4000 PSIG

### Series

I = 10 cu in capacity  
 IF = 4 cu in capacity  
 II = 85 cu in capacity  
 IIF = 36 cu in capacity  
 III = 370 cu in capacity  
 IIIF = 175 cu in capacity  
 IV = 1155 cu in capacity (AP only)  
 8 = 8 cu in capacity (APX only)  
 12 = 12 cu in capacity (APX only)  
 16 = 16 cu in capacity (APX only)  
 24 = 24 cu in capacity (APX only)

### Body Material

PP = Polypropylene  
 PVC = Polyvinylchloride (not available in Series IV)  
 PVDF = Polyvinylidene Fluoride  
 S/S = 316L Stainless Steel  
 ALL20 = Alloy 20 (not available in Series IV)  
 HAST = Hastelloy C  
 CS = Carbon Steel  
 CPVC = Chlorinated Polyvinyl Chloride\*\*  
 \* (available in Series I, IF, II, and IIF only)  
 † (CPVC only, **not** CPVC Corzan)

### Optional Flanges

Add suffix -F for flanges

### Size

0 = 3/8" npt(f) series I Std Metal  
 1 = 1/2" npt(f) series I Std Plastic  
 2 = 3/4" npt(f) series II Std All  
 3 = 1" npt(f) series II (Optional)  
 4 = 2" npt(f) series III  
 5 = 3" flanged series IV  
 6 = 4" flanged series IV

### Bellows material

N = Neoprene  
 B = Buna-N  
 H = Hypalon  
 E = EPDM (Nordel)  
 V = Viton  
 T = Teflon  
 S = Santoprene  
 P = Polyvinylchloride

### APX Series available ONLY with:

Body: 316L Stainless Steel  
 Size: 1/2" npt(f)  
 Bellows: Buna-N, EPDM & Viton

### Note:

CRN certification available.  
 Food grade material available.  
 Other sizes and materials available.  
 Please contact factory.

**For detailed product information visit our website: [primaryfluid.com](http://primaryfluid.com)**

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