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

PRIMARY FLUID SYSTEMS INC.

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ACCU-PULSE Pulsation Dampeners

Dampener Sizing Guide

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

Standard Simplex Metering 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: $\frac{\text{gallons per minute}}{\text{strokes per minute}}$ = gallons per stroke

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

Example: $\frac{.15}{100}$ = .0015 GPS **Therefore:** .0015 X 231 = 0.3465 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 - F

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 = Polyvinylchoride (not available in Series IV)
- PVDF = Polyvinyldene 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 (ANSI)
- Add suffix -B for BSPT conn.
- Add suffix -FD for Flanges (DIN)
- Add suffix -SW for Socketweld conn.

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.

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Distributed By:

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