

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
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ACCU-PULSE Pulsation Dampeners

Dampener Sizing Guide

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: $\frac{.15}{100} = .0015 \text{ GPS}$ **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	AP IF Flat Top
0.23 to 0.75 Cubic Inches	API Dome Top
0.76 to 2.71 Cubic Inches	AP IIF Flat Top
2.72 to 6.40 Cubic Inches	AP II Dome Top
6.41 to 12.96 Cubic Inches	AP IIIF Flat Top
12.97 to 27.89 Cubic Inches	AP III 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 only)

APX Series available ONLY with:
Body: 316L Stainless Steel
Size: 1/2" npt(f)
Bel lows: Buna-N, EPDM & Viton

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

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

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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Distribution Territories Available

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