

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 - 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 = 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)

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

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