

# ACCU-PULSE HI

## Pulsation Dampeners

Chargeable / Metal / Dome Top



- remove pulsating flows from positive displacement pumps
- increase system efficiency and pump life
- decrease maintenance and costs
- protect pipes, meters, instruments, valves, gaskets and seals from pulsation and vibration
- ensure meter accuracy, longevity and repeatability
- reduce pressure fluctuations and diaphragm wear
- prevent foaming and splashing

### FEATURES

- CRN is available on certain metallic units
- extensive range of materials
- lightweight, compact design
- 1000 psi rating
- easy in-line maintenance
- 2 year warranty

### Technical Data

**Unit Capacity:** 10 CU In

**Weight:** 3 pounds

**Air Control:** Gas Fill Valve

**Inlet Port:** 3/8" NPTF, optional 1/2" NPTF

**Pressure Limit:** 1000 psi at 70° F \*\*

**Shell Materials:** 316L Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C

**Elastomers:** Neoprene, Buna-N, EPDM, Viton, Hypalon

**\*\*Caution:** Temperature and pressure affect the strength and chemical resistance of plastic and rubber.



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SYSTEMS INC.

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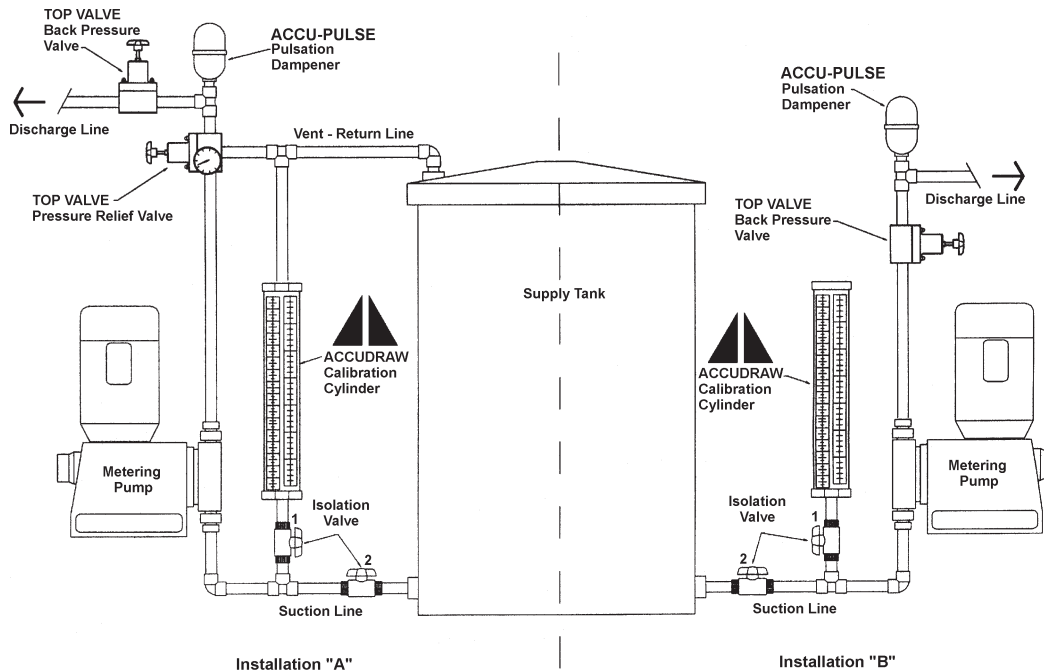
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# ACCU-PULSE HI Pulsation Dampeners

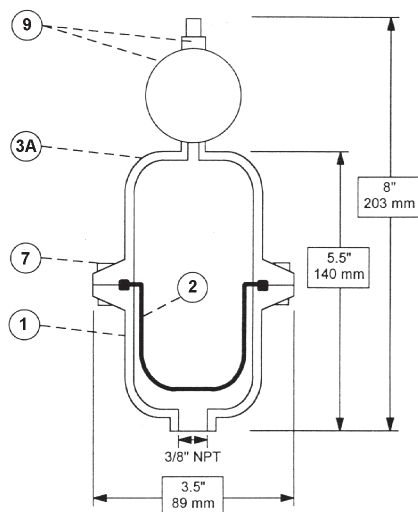
## Operation:

ACCU-Pulse pulsation dampeners operate on the principal that volume is inversely proportional to pressure. Compressed air or gas is introduced into the top section of ACCU-Pulse to a specified pressure that must be lower than the pump's discharge pressure. When a pump or valve introduces a pulse, fluid enters the dampener and compresses the trapped gas. The fluid remains in the dampener until the system pressure returns to normal, when the valve is reopened or the pump begins its next cycle. The fluid is then pushed back into the system piping as the trapped gas expands. ACCU-Pulse does NOT restrict fluid flow, or increase system pressure. ACCU-Pulse fills the fluid voids and pressure fluctuations created by reciprocating pumps.

## Typical Installations:



## Dimensions:



## Parts Description:

Item	Part #	Qty	Description	Material
1	1020-27-^	1	Wetted Housing	316 Stainless Steel
	1070-27-^		Wetted Housing	Alloy 20
	1080-27-^		Wetted Housing	Hastelloy C
2	1005-25	1	Bladder with S/S anti-extrusion button	Neoprene
	1005-28		Bladder with S/S anti-extrusion button	EPDM
	1005-29		Bladder with S/S anti-extrusion button	Buna-N
	1005-30		Bladder with S/S anti-extrusion button	Hypalon
	1005-31		Bladder with S/S anti-extrusion button	Viton
	1005-55		Bladder with S/S anti-extrusion button	Aflas
3A	1020-24	1	NonWetted Housing	316 Stainless Steel
	1070-24		NonWetted Housing	Alloy 20
	1080-24		NonWetted Housing	Hastelloy C
7	1020-31	6	Fastener Assembly	Stainless Steel
9	TBA	1	Chargeable Air Assembly	Plastic, Brass, S/S

For alloy 20 and hastelloy units, consult factory on bladders  
 ^ add suffix -0 for units with 3/8" connections  
 ^ add suffix -1 for units with 1/2" connections  
 ⊕ Recommended Spare Parts

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