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Accumulator Sizing Request

Please select from the following applications and fill out (type or print) the information required. We'll help you calculate the proper accumulator size you need.

Auxiliary Power Source

The most common application of hydraulic accumulators is as an auxiliary power source. In this application, the accumulator stores the hydraulic fluid delivered by the pump during a portion of the work cycle; then, releases this stored fluid on demand to complete the cycle, thereby functioning as a secondary source of power and assisting the pump.		
System maximum pressure, P ₂ :		
System minimum pressure, P ₃ :		
Pre-charge pressure of the accumulator, P1:		
The volume of the fluid required to the system (from the accumulator), V_x :		
Pump Pulsation Dampener		
Pressure pulsations are frequently caused by the reciprocating action of piston-type pumps which produce		
periodic pressure and flow variations at their discharge ports. Installing proper accumulators in the pumping equipment to reduce pulsations can greatly minimize the incidence of failure of vibration sensitive instruments, as well as damage of to pipelines, couplings and valves.		
Pump displacement, V_1 ; or Bore size of the cylinder and		

length of stroke:	
System mean pressure, P ₂ :	
Permissible fluctuation (5% by default), %:	
Pump Type, select one:	Simplex Single-Acting
	Simplex Double-Acting
	Duplex Single-Acting
	Duplex Double-Acting
	Triplex Single-Acting
	Triplex Double-Acting

Hydraulic Surge Suppressor

Hydraulic line shock, or "water hammer" as it's commonly called, is caused by the sudden stoppage or fast deceleration of fluid flowing in a pipe line that results from the quick closure of a valve in the line. The installation of a properly sized accumulator close to the source of shock can eliminate or significantly minimize the shock and vibration in the system.

I.D. of pipe (specify if different pipes), D:	
Length of pipe line (with each I.D.), L:	
Flow Rate, Q:	
System pressure at normal flow rate: P1:	
Maximum allowable shock pressure: P ₂ :	
Fluid Media:	

Others in Comments