DESIGN ANALYSIS DATA SHEET



Please complete the information below with thorough responses. Once all punch list items have been received we will run the analysis and provide recommendations/solutions for your system.

	PP	C CUSTON	/IER INF	ORMATION	
Company:					
Contact Name:			Phone:		
Email:					
PO #:				Project #:	
		EQUIPM	ENT USI	ER DATA	
llsor:					
Location/Installation:					
Project:					
	1. P	UMP GEN	ERAL IN	FORMATIO	N
Unit Tag Number:					
Manufacturer:					_
Pump Type:					
ex: postive displ, centrifu	ıgal, diaphragm				
Check: O	Direct Acting	O I	Power Pi	ump 	
0	Double Acting		Single Ac Diston	ting	
Phasing of Plungers:	Fluiger		FISCOIL		
Number of Plungers/P	istons				
Plunger/Piston Diame	ter:		Oin.	Omm	
Stroke Length:	_		Oin.	Omm	
Connecting Rod Lengt	h _		Oin.	Omm	
Frame (Rod) Load Rati	ng:		Olbs.	ON	
Displacement per RPM - 100% V. E. :			Ogal.	OM ³	
MAWP for Plunger/Pis		OPSIG	Okg/cm ³ G	OBarG	
Max RV (internal) Press. For Plunger/Piston Size:			OPSIG	Okg/cm ³ G	OBarG
C/D Ratio:		(Swept volume = (((2*2)*3,14)*			*6)+305,309 = 380,708 cm3)
Crank/Rod Ratio:			Q . 3	o 3	
One Cylinder's Unswe	pt Volume:		Oin. [°]		
Suction Valve Cracking Pressure:				Okg/cm ²	OBar
Suction Valve Lift:		$O_{\text{in.}}$	Omm		
Suction Valve Seat Net		Oin.⁻			
Discharge Valve Cracking Pressure:			OPSI	Ukg/cm [°] G	OBar
Discharge Valve Cast Nat Flave Areas			Oin^2	$O \mathrm{cm}^2$	
Discharge Valve Seat N		Jin.	Ucm		

DESIGN ANALYSIS DATA SHEET



	2. PUMP	PERFORMANCE INFORMATION
Driver Speed/Power Rating:		ORPM O HP O kW
Speed Ratio:		:1
Pump Speed:		OVariable O Fixed
		Speed Range RPM
Volumetric Efficiency:		%
Mechanical Efficiency:		%
Pump Power Rating for Applic	ation:	KW
NPSHr	·	PSIA Okg/cm [°] A OBar A
Norm Disch Press./Win. Capac	ity:	
May Disch Press/May Canaci	apacity.	
Relief Valve Press/Max Capac	ity:	ВНР
	3. OPERATI	
Comiese		
Service:		
Capacity:	Min.	OGPM OM ³ /Hr
	Norm.	OGPM OM ³ /Hr
	Max	OGPM OM ³ /Hr
Suction Processo	Min	OPSI = Oka/cm3 G OParG
Suction Pressure.	Norm	
	Norm.	
Discharge Pressure:	Min.	OPSI Okg/cm ³ G OBarG
	Norm.	OPSI Okg/cm ³ G OBarG
	Max	OPSI Okg/cm ³ G OBarG
Relief Valve Set Pressure:	Min.	OPSI Okg/cm ³ G OBarG
Pumping Temperature:	Min.	$O^{0}F$ $O^{0}C$
	Norm.	
	Max.	\bigcirc
Speed of Sound of Liquid:		Ofpm Om/s
Viscosity:		Cp
Specific Gravity: Density:		cp
Bulk Modulus:		
Vapor Pressure:		OPSIA Okg/cm [°] A OBarA
NPSHA		



4. DRAWINGS/OTHER INFORMATION NEEDED

Please prepare and submit the following list of drawings using Autocad 2000, stp, or PDF format, as applicable to PPC via email at sales@performancepulsation.com or Fax: 972-699-8602. NOTE: All drawings will be required prior to PPC beginning the Design Analysis.

	General Arrangement			
	Fluid End Crossectional Drawing	(s)		
	Suction Manifold Drawing			
	Discharge Manifold Drawing			
	Piping and Instrumentation Drav	vings		
	Process Flow Diagrams			
	Piping Isometric Drawings			
Pulsation Equipment	Drawings/Specs			
Existing gas charged d	evice			
volume/pressure (if ap	oplicable)	ln ³	PSIA	
	Dimensions and internal details	for existing vessel and p	oulsation suppression devices.	
Multiple Dumps				

Multiple Pumps

If two or more pumps are connected to the same piping system, describe how they will operate, i.e. - what is the primary and seconary operational condition, 1 pump on with back up, all pumps running, or intermittant and variable pumps operating at different times? **NOTE:** Multiple pump operating scenarios may require additional scope and cost.

Fluid Routings (Normally opened or closed)

If different fluid routing present, describe the relative position of valves for each route.

Non-Standard Components

Please prepare and submit drawings using Autocad 2000, stp, or PDF format, as applicable to PPC via email at sales@performancepulsation.com or Fax: 972-699-8602. NOTE: All drawings will be required prior to PPC being able to begin the Design Analysis.

- □ Items other than standard gate, globe or plug valves
- Strainers- provide product data sheet
- Heat exchangers show internals for accurate modeling
- Other provide drawing and details

Support Types

Please prepare and submit drawings using Autocad 2000, stp, or PDF format, as applicable to PPC via email at sales@performancepulsation.com or Fax: 972-699-8602. NOTE: All drawings will be required prior to PPC being able to begin the Design Analysis.

> If DA-3 mechanical study is included, the distance between the supports and the type of clamp or support at each location must be shown on the piping drawing. A drawing of each type support is required.



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Element Contained	% by Volume

ACOUSTIC ANALYSIS DATA CHECKLIST

Please complete the following punch list prior to submitting content for review. Incomplete information will result in delay of analysis work and may also result in additional charges. Unless agreed to in writing, a model will not be started until receipt of all punch list items.

- □ Customer Information
- Equipment User Data
- Pump General Information
- Pump Performance Information
- Operating Conditions Information
- Drawings/Other Information
- Fluid Composition Data

Email your completed form to ppcengineering@performancepulsation.com or Fax to 972-699-8602