

# **LDi PULSEVIEW**® PROGRAM INPUT DATA.

ANALYSIS AND PREVENTION OF PUMP PULSATION AND CAVITATION.



Since 1963

1 Liquid Parameters.		
(a) density of the liquid:		grams/cc
(b) compressibility of the liquid and any absorbed gas:		litres/bar
(c) effective vapour pressure at pump inlet temperature:		°C
2 Pipe Parameters		
(i) Suction Side		
(a) expected theoretical steady state suction pressure:		BarA
(b) length of pipe from supply to suction acceleration head loss preventer inlet:		meters
(c) inside diameter of pipe from supply to preventer inlet:		mm
(d) length of pipe from preventer to pump suction inlet:		meters
(e) inside diameter of pipe from preventer to pump suction inlet:		mm
(ii) Discharge Side		
(a) discharge pressure against which the pump must deliver:		BarA
(b) length of pipe from pump discharge check valve to discharge acceleration head preventer inlet:		meters
(c) inside diameter of pipe from pump discharge to preventer inlet:		mm
(d) length of pipe from preventer discharge to final resistance:		meters
(e) inside diameter of pipe from preventer discharge to final resistance:		mm
Pump Parameters		
(i) Pumping Mechanism		
(a) connecting rod length:		meters
(b) crankshaft radius - i.e. half the piston stroke:		meters
(c) piston diameter:		meters
(d) effective dead volume of pump chamber:		litres
(e) number of strokes of one displacer per minute:		
(ii) Suction Check Valves		
(a) valve seat diameter:		mm
(b) valve stroke:		mm
(c) valve mass, plus half the weight of one valve spring:		Kg
(d) starting resistance to compression of spring:		Kg
(e) spring rate:		Kg/mm
(iii) Discharge Check Valves		
(a) valve seat diameter:		mm
(b) valve stroke:		mm
(c) valve mass, plus half the weight of one valve spring:		Kg
(d) starting resistance to compression of spring:		Kg
(e) spring rate:		Kg/mm

ADDITIONAL INFORMATION: REQUIREMENTS FOR THE MATERIALS OF CONSTRUCTION:		
A. Metal:	B. Membrane/Seal Material	CUSTOMER:
C. Liquid(s) Description:		CUSTOMER REF.:
D. Operating/Design Temperature:		ENGINEER NAME:
E. Specified Design Pressure:	F. M.D.M.T.:	POSITION:
G. Connection Type, Size & Rating: Suction:		QUANTITY:
Discharge:		Q No.:
H. Any other Information that you believe may be relevant:		ISSUED BY:
		CHECKED BY:
		ISSUE DATE: (DAY/MONTH/YEAR)

<b>LIQUID DYNAMICS INTERNATIONAL Ltd.</b> ISO 9001 - VESSEL CODE # 28.289 <i>"Pulse Doctor" Tech. Services, Diagnostics and Software</i> BOX 506, HAMPSTEAD, N.C. 28443, USA. Tel: 910-270-2737. Fax: 270-2739 or P.O. BOX 47, STOCKPORT, UK, SK5 7BB. Tel: 0161-442-6222. Fax: 443-1486	TITLE: <b>WORD DRAWING</b>	FILE REF: PUGWRD01.VLM/15-MAR-01	
	APPLICATION: <b>PULSEVIEW</b> ® - PULSATION PREVENTOR SOFTWARE.	SCALE: NA	ALL DIMENSIONS ARE IN MM EXCEPT AS STATED.
		REF. NO. <b>WRD002</b>	
		SHEET: 1 OF 1	REV. 0