SUITABILITY GENERAL

MATERIALS OF CONSTRUCTION

1. LIQUID CONTACT METAL PARTS FOUND TO BE COMPATIBLE _____

2. LIQUID CONTACT GASKET, SEALS, DIAPHRAGMS, MEMBRANES ELASTOMERIC AND PLASTOMERIC MATERIALS FOUND TO BE COMPATIBLE _____

---- and -----

OTHER ESSENTIALS

1. MINIMUM DESIGN METAL TEMPERATURE _____
2. DESIGN TEMPERATURE _____ AT DESIGN PRESSURE _____
3. CONNECTIONS SIZE _____ TYPE Ex ANSIB16.5, DIN, NPT _____
4. IF KNOWN, LIQUID COMPRESSIBILITY, MODULUS, Liters per Bar Volume change, or Change in SG per pressure change at system temp. _____

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FOR YOUR PUMP SUCTION ACCELERATION HEAD LOSS RECOVERY OR REMOVAL

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1. LENGTH OF SUCTION PIPE, TUBE OR HOSE _____ _____ _____ _____
2. INSIDE DIAMETER OF CONDUIT above _____ _____ _____ _____
3. VISCOSITY OF LIQUID cP AT SUCTION TEMPERATURE _____
4. SPECIFIC GRAVITY OF LIQUID "SG" @ " _____
5. LOWEST LIQUID HEAD (HEIGHT) ABOVE POINT OF SUPPLY _____
6. PRESSURE OF ANY AIR, NITROGEN, VAPOR IN SUPPLY TANK _____
7. RELATIVE HEIGHT OF CENTERLINE OF PUMP BEING SUPPLIED _____
8. MINIMUM PRESSURE REQUIRED BYTHE PUMP AT ITS INLET _____
9. NUMBER OF VOLUME DISPLACEMENTS PER COMPLETE PUMP CYCLE _____
10. PUMP RPM or CYCLES PER MINUTE

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FOR PREVENTING SYSTEM RESITANCE FROM CAUSING YOUR PUMP TO HAVE TO GENERATE DISCHARGE ACCELERATION HEAD "Pulsation".

Pumps make flow, systems make pressure, pulsation is a system problem, not a pump problem. How much pulsation you have depends on system characteristics.

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1. AS A %age OF THEORETICAL STEADY STATE SYSTEM PRESSURE, HOW LITTLE PULSATION DO YOU WISH TO HAVE? _____%

---- and/or -----

2. HOW LITTLE FLOW FLUCTUATION DO YOU WISH TO HAVE AFTER INSTALLING A VOLUME ACCUMULATOR? _____%
3. LENGTH OF DISCHARGE PIPE, TUBE OR HOSE _____ _____ _____ _____
4. INSIDE DIAMETER OF CONDUIT, above _____ _____ _____ _____
5. VISCOSITY OF LIQUID cP AT DISCHARGE TEMPERATURE _____
6. SPECIFIC GRAVITY OF LIQUID "SG" @ " _____
7. NUMBER OF VOLUME DISPLACEMENTS PER COMPLETE PUMP CYCLE _____
8. PUMP RPM or CYCLES PER MINUTE _____
9. BACK PRESSURE FORM RECEIVING VESSEL, NOZZLE, OR OTHER RESTRICTION. _____

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FOR CENTRIFUGAL, TURBINE, PITOTUBE (etc non positive displacement)
PUMP START UP SURGE, SHUTDOWN BACK FLOW HAMMER, FAST CLOSING VALVE MASS DECELERATION SHOCK and THERMAL EXPANSION – CONTRACTION COMPENSATION
---- PLEASE SEE www.shock-guard.com and www.shock-alleviators.co.uk