PULSCO Hydropneumatic Surge Control System

REQUESTED BY:	USE A SEPARATE SHEET FOR EACH APPLICATION	DATE:

TO: PULSCO, Inc.
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Irvine, California 92614
Ph: 949.261.1717 TF: 877.PULSCO.2 Fx: 949.975.0532
ATTN: Sales Department (sales@pulsco.com)

FROM:

PROJECT NAME OR END USER: _____

SURGE TANK REQUIRMENTS:

Type of Tank: ☐ Air over Water ☐ Bladder
Design Pressure (Maximum Allowable Working Pressure): _____ PSIG
(typically 10% or 30 psig above maximum operating or surge pressure)

Orientation: ☐ Horizontal on saddles ☐ Vertical on legs

Inlet / Outlet Connection: Size: _____ inches
Flange Rating: ☐ 150# ☐ 300# ☐ Other _____
Location: ☐ Bottom ☐ Side ☐ End

Manway: ☐ Elliptical 12x16 ☐ Elliptical 14x18 ☐ Elliptical 18x24 ☐ Circular - Dia & Flange Rating _____& _____

Interior Lining: ☐ Sandblast; Coatings 1st coat: _____
2nd coat: _____(if required)

Exterior Paint: ☐ Sandblast; Coatings 1st coat: _____
2nd coat: _____(if required)

If a Transient Surge Analysis is Not Required (i.e. has been performed by others), provide the following:
Required Surge Tank Volume: _____ ☐ Gallons ☐ Cubic Feet
Outside Diameter: _____ inches Initial Air Volume: _____ *% of Total Tank Volume*

LEVEL CONTROL: ☐ Differential Pressure Transmitter with PLC ☐ Capacitance Sensor ☐ Discrete Contact Probes

SURGE ANALYSIS REQUIRMENTS:
The following data is required for a transient surge analysis. If no analysis is required, provide, as a minimum, the elevation data and the 'TDH' to allow proper design of the level control system.

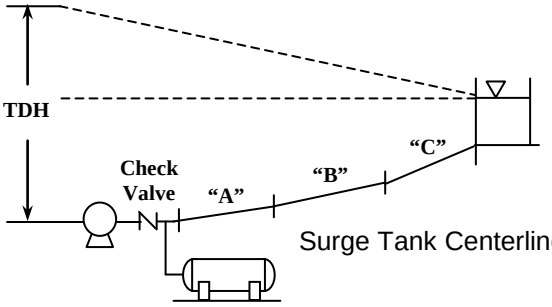
PUMP DATA: Number of Pumps: _____ Capacity of Each Pump: _____ GPM
Maximum Design Flow from Station: _____ GPM Design TDH _____ FT

PIPELINE DATA:

	Length, (Ft)	Size, ID, (in)	Wall Thk. (in)	* Material	** Rating, PSI	*** 'c', Flow Coeff.
A						
B						
C						

Notes: * Steel, C.I., D.I., A/C, PVC, etc., ** Max. Allowable Pressure, *** 'c': Hazen-Williams Flow Coefficient

SYSTEM CONFIGURATION:
TDH, _____ Ft. Max



Reservoir Elevation **
_____ Ft. Max
_____ Ft. Min
For nozzle discharge specify nozzle elevation.

Pump Discharge Elev. _____ Ft.

Surge Tank Centerline Elev. _____ Ft

COMMENTS (SPECIAL REQUIREMENTS, ADDITIONAL DATA, ETC): Provide a sketch of the pipeline profile if significant high or low points occur in the profile.

INTERNAL USE ONLY

PULSCO:
Design / Project ENGINEER _____
ENGINEERING MANAGER _____