HP Surge Control System Application Sheet

Date:		**Requested by:**	
Contact:	PULSCO Inc. 1813 E. Dyer Rd. Suite 401 Santa Ana, CA 92705	**For:**	Company Address Line 1 Address Line 2 Address Line 3
Attn:	Sales Department (sales@pulsco.com)		

PROJECT NAME: **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 - Diameter & 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.

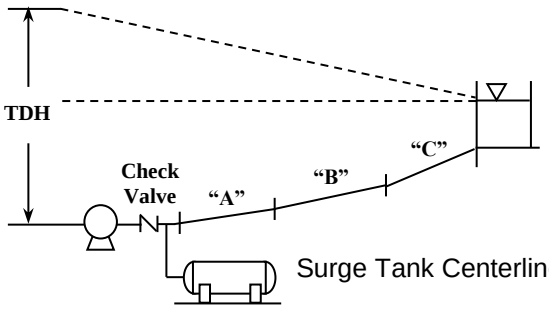
PUMP DATA: Number of Pumps: _____ Capacity of Each Pump: _____ GPM
Maximum Design Flow from Station: _____ GPM Design TDH: _____ FT

PIPELINE DATA:

	Length, (Ft)	Size, ID, (in)	Wall Thk. (in)	Material	** Pressure Rating, PSI	Hazen-Williams Flow Coeff.
A						
B						
C						

Notes: ** Max. Allowable Pressure

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. Alternatively, provide an electronic EPANET file (if available).

INTERNAL USE ONLY

PULSCO:

Design / Project ENGINEER _____

ENGINEERING MANAGER _____