



HIDRACAR S.A.

QUESTIONNAIRE TO CALCULATE THE ADEQUATE PULSATION DAMPENER FOR DOSING PUMPS

COMPANY AND CONTACT INFORMATION

Company Name: _____
 Address: _____
 City: _____ Country: _____ Postal Code: _____
 Date: _____ Telephone: _____ Contact Person: _____
 Email: _____ Your Reference (Optional): _____

PUMP SPECIFICATIONS

Please select the pump type:

- Piston Pump/Plunger Pump
- Peristaltic Pump/Hose pump
- Pneumatic Pump/AODD pump
- Other (Please specify): _____

• IF PISTON PUMP IS SELECTED

Number of Pistons: _____

Pump Type:

- Single-Acting
- Double-Acting

Flow Rate:

At Maximum Conditions: _____ l/h / USGPH

Crankshaft/Pump Speed:

Pump Maxi. Speed: _____ strokes/min. (s.p.m.)

• IF PERISTALTIC PUMP IS SELECTED

Number of Shoes: _____

Shoes rpm: _____

• IF PNEUMATIC PUMP IS SELECTED

Volume delivered per cycle: _____ L / Gal

WORKING PRESSURE PROFILE

Is the working pressure variable?

- Yes No Unknown (Please estimate a value below)

Pressure Conditions:

Maxi. Working Pressure: _____ bar / PSI

Min. Working Pressure: _____ bar / PSI

LIQUID PROPERTIES

Liquid Pumped: _____

Working Temperature (Min/Max): _____ °C / °F

Liquid Viscosity at Work. Temp.: _____ °E / cP

Environment Temperature (Min/Max): _____ °C / °F

PULSATION DAMPENER SPECIFICATIONS

Required Residual Pulsation: \pm _____ %

(Example: For a mean working pressure of 10 bar and a $\pm 2\%$ residual pulsation, the pressure will oscillate between 9.8 bar and 10.2 bar).

Connection Type:

- Standard female BSP thread
- NPT thread
- Flange (Specify): _____
- Other (Please specify): _____

DESIGN CODE SELECTION FOR CALCULATION

Please select the required design code for dampener calculation:

- ASME Section VIII Div. 1
- PED 2014/68/EU (EN 13445)
- Other: _____

FOR SUCTION PORT APPLICATIONS (If applicable)

Available NPSHa: _____ m.c.l./ ft

Available NPSHa: _____ m.c.l./ ft

Max. distance from water level: _____ m / ft

Suction Piping diameter: _____ mm / inch

SPECIAL REQUIREMENTS

Is a double jacket required for a heating/cooling fluid?

- Yes No

If yes, please specify the heater fluid and its properties:

Are any abrasive particles present in the liquid?

- Yes No

If yes, please detail type and concentration:

ADDITIONAL NOTES OR COMMENTS

