TOSHIBA   Flowmeter Application Data Sheet

Company: _____

Address: _____

City: _____

Tel. # for technical questions: (   ) _____

E-mail: _____

Title: _____

Signature: _____   Date: ____/____/____

Reviewed by _____   Date: ____/____/____

Approved by _____   Date: ____/____/____

1. General

　Application: _____

　Plant/Process: _____

2. Certifications Required

　▪ FM/CSA: Y _____   N _____

　　If Yes, Div I _____or Div 2 _____, Groups: _____

　▪ NSF: Y _____   N _____

　▪ 3A: Y _____   N _____

　▪ Others: _____

3. Liquid Data:

　Name: _____

　Description: _____

　Concentration (If Applicable): _____

　Conductivity: _____

　Does Fluid contain solids? Y _____ or N _____

　　If Yes, Particle Size/Type/ Desc: _____

　　_____ (% Solids) _____ (approx)

　Does Fluid Contain Magnetite? Y _____% or N

4. Operating Condition:

　Flow Rate   Accuracy Req.

　_____ Gal/min (Min)   _____ % Rate

　_____ Gal/min (Typ)   _____ % Rate

　_____ Gal/min (Max)   _____ % Rate

　Is Flow continuous or Pulsing/ Batch? _____ Continuous,

　Describe Pulse Timing or Batch Size & Pump Type:

　_____

　_____

5. Process Temperature/ Pressure:

　Operating Fluid Temperature (at meter site):

　　_____ Min _____ Norm _____ Max (^{o}F or ^{o}C)

　Ambient Temperature

　Primary: _____ Min _____ Norm _____ Max (^{o}F or ^{o}C)

　Converter: _____Min _____ Norm _____ Max (^{o}F or ^{o}C)

　Operating Pressure:

　　_____ Min _____ Norm _____ Max (PSIG)

　Other environmental conditions:

　_____

　_____

6. Describe your flow measurement problem and what it is you wish to accomplish:

　_____
　_____
　_____
　_____
　_____
　_____
　_____
　_____
　_____
　_____

Continued on next page

7. **Primary Preference**

Meter Size: _____ (1/2" to 120")

Meter Type: (circle) Flange, Wafer, Sanitary, Other _____

Liner Material: (circle) PFA, PTFE, FEP, PU Rubber,
Ceramic, Hard Rubber, Natural Rubber,
Chloroprene Rubber, Other _____

Electrode Material: (circle) Hastelloy C, 316L S/S,
Titanium, Tantalum, Platinum-Iridium,
Other _____

Connections: (circle) ANSI 150#, ANSI 300#, JIS10K,
JIS20K, Other_____

Grounding Ring: Required?   Y____   N_____
If yes, Material: (circle) Hastelloy C, 316 S/S, 304 S/S,
Titanium, Tantalum, Platinum-Iridium, Other _____

Structure: (circle) NEMA 4X (IP67),
NEMA 6P (IP68) ft/ depth _____ hours_____

8. **Signal Converter:**

Remote _____ Integral _____
If Remote, distance from sensors to converter ____ ft

Display: (circle)   Y   or   N

Supply Voltage: (circle) 100 to 240 Vac, 24Vdc,
110 Vdc, Other_____

Measuring Range:
                           Range   Units
▪ Forward Flow
____ Volumetric Flow rates _____ _____
▪ Reverse Flow (If desired)
____ Volumetric Flow rates _____ _____

Totalized Volume (If desired)
____ Totalized Volume _____ __/count

9. **Output Requirements:**

4-20mAdc Current Output: Y ____ or N _____

Pulse Output: Y ____ or N _____

Digital Contact Output: Y ____ or N _____
If Yes, Output Function: (circle)
High/Low Flow Alarm, Multi-range Selection,
Empty Pipe Alarm, Failure Alarm, Preset Count Out

Digital Input: Y ____ or N _____
If Yes, Input Function: (circle)
Totalizer Reset/Start, Zero Adjustment,
Multi-Range Selection, Fixed Output Set/Reset, Preset
Count Output

Communication: HART __, Modbus __, Profibus ___

10. **Location:**

Full pipe?: (circle) Yes, No, Sometimes

Pipe Orientation: (circle) Horizontal, Vertical, Inclined
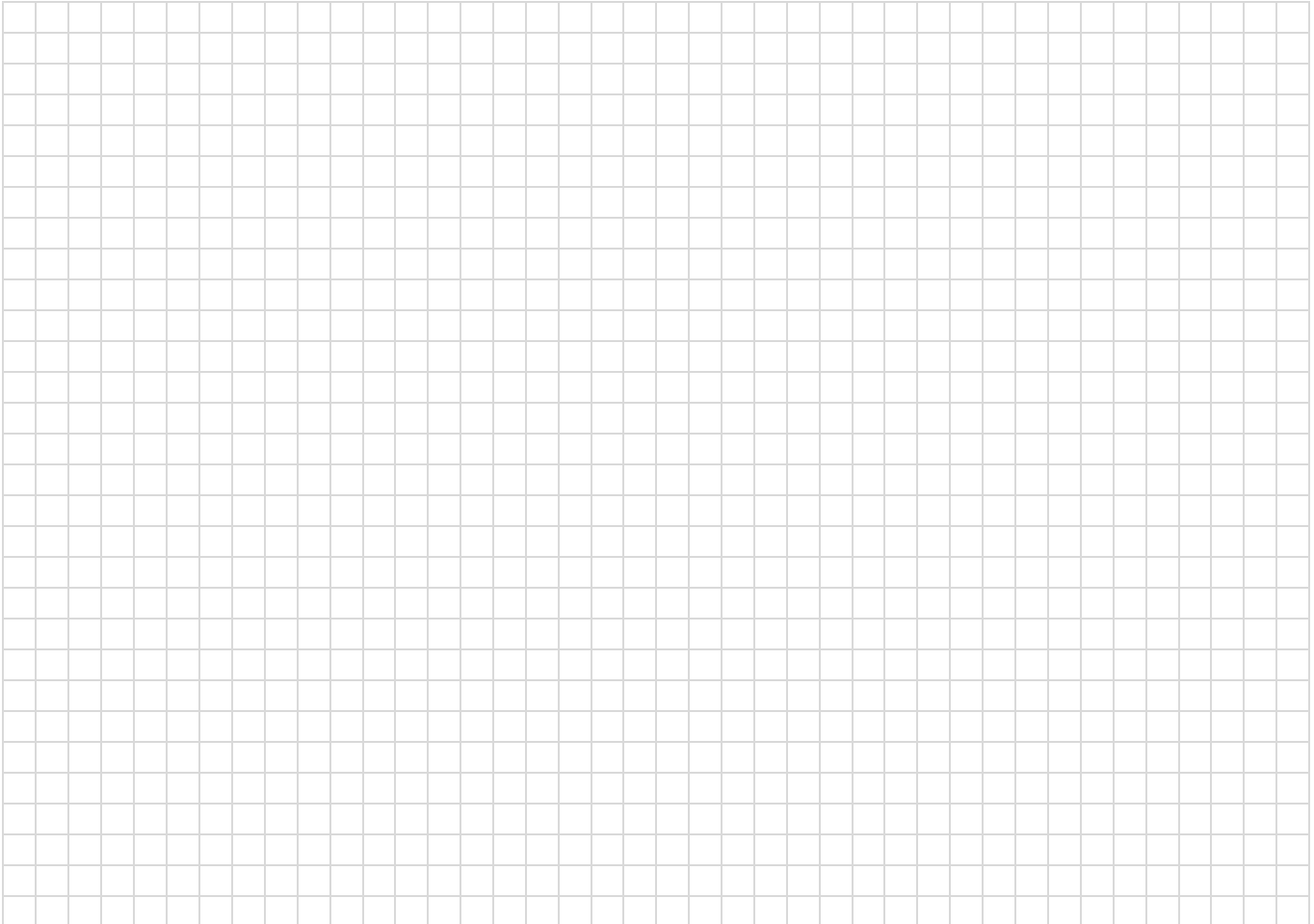If vertical or inclined, is flow direction: (circle) Up, Down

Straight Run: _____ Pipe Diameters Upstream
_____ Pipe Diameters Downstream

Describe Upstream Conditions:
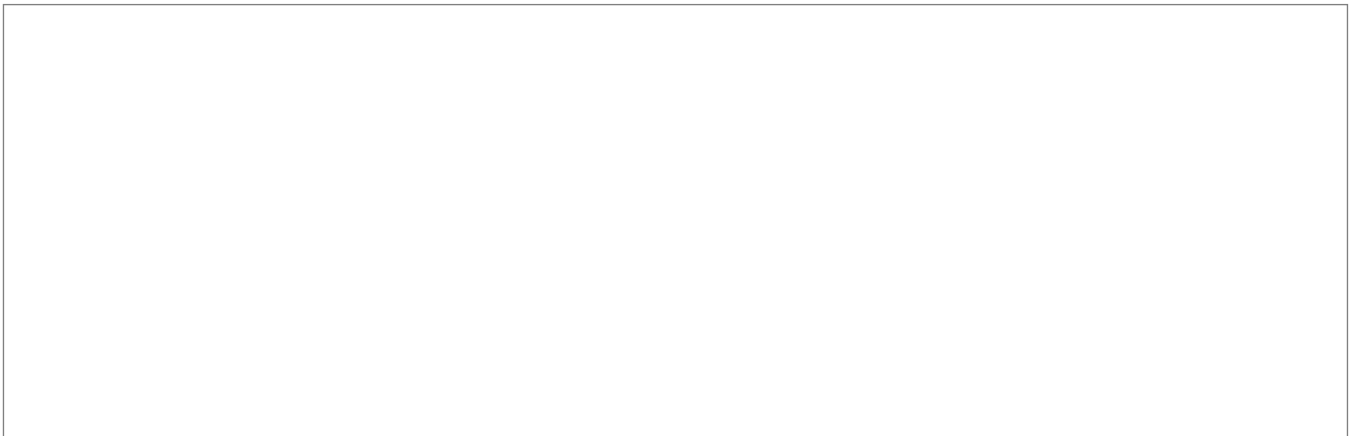(i.e., centrifugal pump, chemical injection, tank etc)
_____
_____
_____
_____
_____

Describe Downstream Conditions:
_____
_____
_____
_____
_____

Continued on next page

11. Sketch proposed flowmeter installation (in the space below). Include adjacent equipment (pumps, valves, etc), orientation, and flow direction.

12. Other special requirements