

# Industrial Tank Agitator Data Sheet (for Selecting Top-Entry Agitators)

Complete the form below to help us determine the industrial tank agitator requirements to meet your application/process needs.

First Name	Last Name
Title	Company
Phone	Email

## A. VESSEL/TANK CHARACTERISTICS

Tank Geometry	Top Head	Bottom Head	Tank Age	Manway Size
Cylinder	Open	Flat	New	
Rectangular	Flat	Sloped	Existing	Restrictions
Vertical	Std. F&D	Std. F&D		Space      Headroom
Horizontal	ASME F&D	ASME F&D	If existing, can it be modified? Y N	
	Cone	Cone	Steady bearing allowed? Y N	
	Other	Other		

### Tank Dimensions

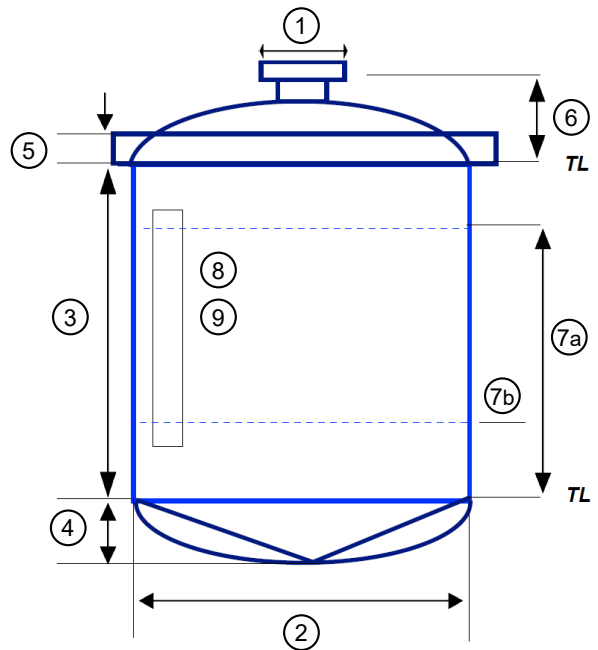
Provide separate drawing if your configuration differs from shown.

Units of Measure                      mm      in

ASME Flange (if applicable):

- Nozzle Size (if used)
- Diameter
- Length
- Bottom Depth (if applicable)
- Beam Height
- Height from Top Tangent Line to Flange Face
- Working Level
- Baffle Width
- Baffle Offset from Wall

max                      min



## B. CONSTRUCTION MATERIALS

Tank	Mixer Wetted Parts
Steady Bearing	
Bushing Material	

## C. ENVIRONMENTAL

Design Pressure (psig)	Temp (°F)
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## D. SHAFT SEAL TYPE

Required	Preferred
Vapor	
Stuffing Box	
Single Mechanical	
Double Mechanical	
ProQuip Recommend	
Seal Lubricant	

## E. MOTOR CHARACTERISTICS

Volts/	Phase	Hz
Enclosure		
Special insulation requirements		

For assistance, call 1-330-468-1850 or email [applications@proquipinc.com](mailto:applications@proquipinc.com)



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## F. OPERATING CHARACTERISTICS

Describe what your mixer should do and how the results are measured

Operations Type

Batch with min mixing time

Continuous at gpm flow rate

Operating Volume gals min gals max gals

Mixer Should be Selected for operating volume maximum volume

Operating Temp (°F) min max

Operating Pressure (psig) min max

## G. PROCESS CONSIDERATIONS (Check all appropriate boxes)

### Liquids Only

- Blend miscible liquids
- Hold/prevent stratification of existing structure
- Contact immiscible liquids
- Emulsification
- Heat transfer
- Chemical reaction

### Liquids and Solids

- Suspend solids adequately to prevent buildup
- Suspend solids entirety off bottom
- Suspend solids uniformity
- Dissolving
- Washing or leaching

### Liquids and Gas

- Gas dispersion
- Gas absorption
- Stripping

### Liquids

A B C D

Name

Weight %

Specific Gravity

Viscosity (cps)

Other Data

Other Data

### Solids

Name

Weight %

Specific Gravity

Settling Rate (ft/min)

Particle Size Range

Solids Added Wet Dry

Solid Types Soluble Insoluble  
Fluffy Sticky/Gummy Abrasive

### Gas

Name

Flow Rate (cfm)

Pressure (psig)

Temperature (°F)

Foaming Tendency

### Final Mixture

Specific Gravity Viscosity

Other Details

If this a current process, describe the installation including batch dimensions, power and impeller size/speed/type/ location.

If the process isn't performing satisfactorily, describe likely the causes?

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## G. NOTES/ADDITIONAL INFORMATION

### ProQuip Impellers

HiFlow



Doubly-Pitched HiFlow



HiSolidity HiFlow



Axial Flow Turbine



Radial Flow Turbine



Double Helix Impeller

