



DS 34-402-
25 August 2003

Data Sheet for Agitators - english

1	Facility Location:					
2	Unit:		3			
4			5	Project/Job No.:		
6	Contractor:		7	PO No.: _____ By Co.:		
8	Agitator Manufacturer:		9	Model No.:		
10	P&ID Number		11	Serial Number		
12						
	PROCESS DESIGN REQUIREMENTS					
13	Mixing process includes (See Tutorial Note 2) :					
14	☐ All liquids ☐ Liquid-gas ☐ Liquid-solid ☐ Liquid-gas-solid ☐ All solids					
15	Agitator function					
16						
17	Time to accomplish function					
18						
19	How results are to be measured (See Tutorial Note 1)					
20						
21	Special requirements (e.g. start-up)					
22						
	PROPERTIES OF CONSTITUENTS					
23	Liquids					
24	Name	Weight (%)	Specific Gravity	Viscosity (cP @ °F)	Shear Rate	
25						
26						
27						
28	Solids					
29	Name	Weight (%)	Specific Gravity	Settling Velocity (ft/s)	Shape	Sieve Analysis
30						
31						
32						
33	Gases					
34	Name	Flow Rate (gal/h)	Pressure (psig)	Temperature (°F)	Foams	
35						
36						
37						
	PROCESS TYPE					
38	☐ Batch	Volume (gal)	Minimum	Normal	Maximum	
39	☐ Continuous	Flow Rate (gal/h)				
	OPERATION					
40	Mixing Intensity	☐ Violent ☐ Medium ☐ Mild	hp/gal			
41	Agitator is operated during:	☐ Filling ☐ Emptying				
42	Minimum liquid level for operation			ft		
43	Primary pumping capacity without induced flow			gal/h		
	NO	DATE	REVISION			BY APP.
44						
45						
46						
47						



Data Sheet for Agitators - english - page 2

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12					
	TANK DETAILS				
	Design	Operating			
		Normal	Minimum	Maximum	
13	Pressure (psig)				
14	Temperature (°F)				
15	Capacity (gal)				
16					
		Nozzles			
	Nozzle Number	Size	Pressure Rating	Description	
17					
18					
19					
20					
21		Baffles			
22	Number	Width (in)	Thickness (in)	Length (in)	
23					
24					
	MECHANICAL DESIGN				
	Rotating Assembly				
	Impeller Number	Impeller Type	Number of Blades	Power (hp)	Diameter (ft)
25					
26					
27					
28					
29	Speed (rpm)	Critical Speed (rpm)			
30	Direction of Rotation (viewed from drive end):		☐ CW ☐ CCW		
31	Steady Bearing	☐ Yes ☐ No	Type	Diameter (in)	
32	Lubricant	Type	Pressure (psig)	Temperature (°F)	
33	Shaft Diameter at Seal (in)		Stabilising Device ☐ Yes ☐ No		
34	Tank Entry ☐ Top ☐ Bottom				
	MATERIALS OF CONSTRUCTION				
	Item	Material Specification	Item	Material Specification	
35	Tank				
36	Rotor		Bearing bushing		
37	Impellers		Gland packing (if supplied)		
38	Shaft Sleeves		Mech. seal (component)		
39	Hubs				
40	Mechanical seal housing				
41	Coupling		Other		
42	Bolting				
43	Gaskets				