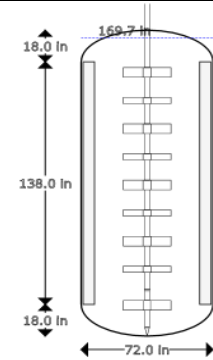
		CHEMINEER™ AGITATOR DATASHEET				
		Mixer Ref:	Equipment #W503W.1&2 - Water Wash Reactors / Updated Design			
		Printed By:	KEISERT@CEJCO.NET 09-Dec-2021 09:25PM			
		Software:	CEDS.NET AgSolver 0.5.5.188			
Model No.:	22GTN-5	Shipping Weight:	2716 lb			
Type of Application:	Unspecified	Design Conditions:	150.0 PSIG at 248.0 °F			
Industry:	Unspecified	Hazardous Area:	No			
<b>TANK DETAILS</b>						
Tank Configuration:	Cylindrical					
Tank Size:	72.0 in dia.					
Straight Side:	138.0 in					
Top Shape:	Elliptical; Depth: 18.0 in					
Bottom Shape:	Elliptical; Depth: 18.0 in					
No. Baffles:	(4) @ 90°					
Baffles Width:	6.3 in					
Baffles Wall Clearance:	1.0 in					
Baffles Height:	138.0 in					
Agitator Orientation:	Vertical, on-center					
Agit. Mounting Surface:	Structural Nozzle w/Flange					
Agit. Mounting Height:	15.1 in above tank top					
<b>DRIVE CONFIGURATION</b>						
Type and Options:	Gear Drive; Nominal Speed: 56 RPM; Rotation Direction: Clockwise; Paint: Sherwin-Williams Polane HS Plus					
Motor:	Power: 5 HP; Speed: 1800 RPM; Frame: NEMA 184TC; Supply: AC; Voltage: 230/460V; Phase: 3-Ph; Frequency: 60 Hz; Efficiency: Premium; Service Duty: Severe; Enclosure: TEFC; Service Factor: 1.15+; Max. Ambient: 104.0 °F; Mounting: CFACE					
Gearbox:	Type: Chemineer 20GT; Size: #22; Lubricant: Oil (R&O); Dipstick: Yes; Service Rating: Class III					
Shaft-Tank Seal:	Type: Double Mechanical Seal; Style: ChemSeal Double; Inboard Materials: Carbon vs Silicon Carbide, Viton Elastomers; Outboard Materials: Carbon vs Silicon Carbide, Viton Elastomers; Lubricator: Flowserve lubricator w/ pressure switch, level switch and pressure gauge					
Drive Mounting:	Flange: 30" 150# ANSI Raised-Face; Material: 316SS Face & Core					
<b>WETTED PARTS CONFIGURATION</b>						
Shaft Diameter:	3 in	Material:	316SS			
Fasteners:	Lock-washer and nut	Finish:	Chemineer standard			
Station:	Location from Mounting:	Diameter:	Pumping Direction:	Options:		
Impeller, S-4	41.9 in	26.00 in	Radial	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, Disc	56.9 in	26.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, S-4	73.9 in	26.00 in	Radial	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, Disc	88.9 in	26.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, S-4	105.9 in	26.00 in	Radial	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, Disc	120.9 in	26.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, S-4	137.9 in	26.00 in	Radial	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Impeller, Disc	152.9 in	26.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
Step	163.4 in			Shaft Dia. Below Step: 2.5 in		
Impeller, S-4	174.4 in	26.00 in	Radial	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub		
End of Shaft	188.9 in					
<b>PROCESS DATA</b>						
Process Stage:	Level:	Volume:	Pressure:	Temp.:	Viscosity:	SG:
Stage 1	169.7 in	2,839 gal	44.0 PSIG	248.0 °F	43.0 cp	0.914
<b>MIXER PERFORMANCE</b>						
Process Stage:	ChemScale:	Pumping:	Blend Time:	Uniformity:	G-Value:	Flow:
Stage 1	2.11	4,586 gpm	41 s	99%		Turbulent
<b>EQUIPMENT MOUNTING LOADS</b>						
Static Weight:	2,516 lbf					
Bending Moment:	1,315 ft-lb					
Torque Reaction:	1,167 ft-lb					

W503W.1-A  
 W503W.2-A  
 19-A-755  
 19-A-855