



CHEMINEER™ AGITATOR DATASHEET

Mixer Ref: Equipment #534Na - Caustic Dosing Mixer / Mixer A
Printed By: KEISERT@CEJCO.NET 09-Dec-2021 09:25PM
Software: CEDS.NET AgSolver 0.5.5.188

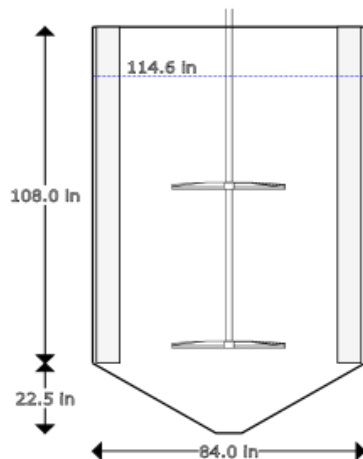
Model No.: 11MRL-1.5 Shipping Weight: 663 lb
Type of Application: Unspecified Design Conditions: 0.0 PSIG at 225.0 °F
Industry: Unspecified Hazardous Area: No

TANK DETAILS

Tank Configuration: Cylindrical
Tank Size: 84.0 in dia.
Straight Side: 108.0 in
Top Shape: Flat
Bottom Shape: Conical; Depth: 22.5 in

No. Baffles: (3) @ 120°
Baffles Width: 7.3 in
Baffles Wall Clearance: 1.2 in
Baffles Height: 108.0 in

Agitator Orientation: Vertical, on-center
Agit. Mounting Surface: Structural Nozzle w/Flange
Agit. Mounting Height: 5.9 in above tank top



DRIVE CONFIGURATION

Type and Options: Gear Drive; Nominal Speed: 84 RPM; Rotation Direction: Clockwise;
Paint: Two Part Polyurethane
Motor: Power: 1.5 HP; Speed: 1800 RPM; Frame: NEMA 145TC; 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 MR; Size: #11; Lubricant: Oil (R&O); Service Rating: Class III
Shaft-Tank Seal: Type: Lip Seal; Material: Nitrile Rubber
Drive Mounting: Flange: 14" 150# ANSI Raised-Face; Material: Steel Solid

WETTED PARTS CONFIGURATION

Shaft Diameter: 2 in Material: Steel
Fasteners: Lock-washer and nut Finish: Chemineer standard

Station:	Location from Mounting:	Diameter:	Pumping Direction:	Options:
Impeller, XE-3	58.0 in	35.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub
Impeller, XE-3	109.0 in	35.00 in	Down	Hub Attachment: Welded to shaft; Blade Attachment: Bolted to hub

PROCESS DATA

Process Stage:	Level:	Volume:	Pressure:	Temp.:	Viscosity:	SG:
Stage 1	114.6 in	2,408 gal	0.0 PSIG	122.0 °F	67.4 cp	1.219

MIXER PERFORMANCE

Process Stage:	ChemScale:	Pumping:	Blend Time:	Uniformity:	G-Value:	Flow:
Stage 1	5.24	10,194 gpm	32 s	99%		Turbulent

EQUIPMENT MOUNTING LOADS

Static Weight: 513 lbf
Bending Moment: 3,116 in-lb
Torque Reaction: 2,958 in-lb