

Ez-Flo Continuous Weigh Scales-Silos

PLANT EQUIPMENT SALES SERVICE

CLARENCE RICHARD COMPANY

3908 Tonkawood Road, Minnetonka, MN 55345

800-372-7731 952-939-6000 FAX 952-939-1026

email clarence@clarencrichard.com web www.clarencrichard.com

Silo Usage Application Data Sheet 4 cubic feet per Barrel (BBL)

200 BBL



Contact Information

Date:	
Contact/User Name	
Company Name	
Company Address	
Company City, State, Zip	
Contact Phone	
Contact Secondary Phone	
Sales Representative	

Application Information

Application: Describe the application in	
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End User Signature: _____ Date _____

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<i>which the silo will be placed and used. Pictures and sketches are required.</i>	
Silo Operation Objectives: <i>(Blending Material Continuously with another material, Batching Control)</i>	
Flow Rate Range Requirements during Continuous Blending or during Batch Cycle: <i>(i.e 3.5 to 10 tons per hour or 50 to 130 pounds per minute)</i>	
If Batching, 1) size of Batch and 2) length of time Batch will be discharged into the process	
Measurement Accuracy Required: <i>(within x% of reading)i.e. 10%, 1% or .5%</i>	
Data Requirements: Material Totalizer <i>(Pounds, tons, Kilograms, tonnes, etc.)</i>	
Data Requirements: Material Flow Rate, <i>(Tons per hour or Pounds per minute, etc.)</i>	
Data Display Location: <i>(Where does data need to be seen or modified.e.g. Control Room or at Silo)</i>	
Silo Location: <i>If Silo Controls are to be placed away from silo; will 175 feet of extension cord be long enough?</i>	
Describe any Environmental Conditions <i>(caustic, explosive, high temperature, temperature variations, out door)</i>	

Material Information

Materials Being Measured: <i>(fly ash, hydrated lime, cement, hot aggregate dust, crushed lime, sand, dolomite)</i>	
MSDS Sheet is required. Is one being provided with this Application Data Sheet?	
Material Density: <i>(lbs/square foot)</i>	
Material /Environment Temperature Ranges:	
Material Moisture % Range	

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Provide angle of repose to help determine flowability.	
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Material Flow Information

Describe Conveying Equipment and Transitions evacuating the Flow Scale (auger, conveyor, mixer, pneumatic conveying, etc)	
Describe any machinery and processes creating vibrations transmitted to the Flow Scale.	
Describe any Air Flows or steam through Scale or Air Pressures above or below atmospheric. Empty Vanes of an Air Lock can introduce pressure into the flow scale chamber	
Describe Flow Rate Consistency (<i>i.e. Flow rate remains consistent. or material feeding scale bridges regularly causing erratic flows.</i>)	
Describe Environmental Conditions For the Remote Control Box (<i>indoors, out doors, hot, cold, windy, rain, humidity, hose down area, dusty, dirty</i>)	
Describe any Material Flow Ability and Problem Considerations (<i>sticky, chunky, high moisture content, bridging, choking</i>).	

Misc. Considerations

Delivery Needs (<i>'Need By' date</i>)	
Material Calibration Considerations (<i>how do you plan on capturing a measured weight run through the flow scale so as to compare to captured material weighed on separate scale</i>). <i>Option: Calibration Slide Gate, Calibration Divert Stand.</i>	
Installation Considerations <i>size - weight restriction, Scale Discharge Height, Scale</i>	

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<i>excessive air flow through the scale – airlock-venting option requirement)</i>	
Mechanical Considerations <i>*Discharge Tapered Transition – Square to Round. *Calibration Jam Gate – 16” Square to 10” or 12” (to be mounted under customers discharge auger) *Scale Discharge Divert Chute (typically scale is mounted on top so product discharges straight through or is diverted to a container used for calibration) *Turnkey Service Requirements *Custom Engineering</i>	

**When possible, send pictures to clarence@clarencerichard.com.
Please sketch a drawing of process equipment lay out on back.**

Common to both 350 BBL Silos- 60 degree Cone

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Fill pipe with baghouse, Cone aeration, Level Bindicators, Air Dryers, Cone Vibrator
Portable with pintel hitch (1 ton truck with 2000 lb tongue weight hitch can pull it) .
with Auger side discharge.. 12' to ground discharge height. 10" Diameter Scale
Discharge.

Continuous weigh scale with Auto/Manual batching and blending controls with 175 feet
of control wire with Variable speed 12" discharge auger flow control

Benefits.

1 ton truck with 2000 lb tongue weight hitch can pull it.

8' Discharge height

Medium Volume- May not need storage pig to feed silo.

Steep cone walls – reduces bridging problems

Disadvantage

Pad with anchor bots required.

Crane erection required.

Common to both 450 BBL Silos -50 degree cone

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Fill pipe with baghouse
Cone Aeration
Level Bindicators
Portable with fifth wheel... Tractor Pull
On 15 foot stand with Auger side discharge.
Continuous weigh scale with Auto/Manual batching and blending controls with 175 feet of control wire.

SN 2031... with Variable speed 12" vane feeder flow control..

Benefits

15-18' Discharge height
Higher Volume- May not need storage pig to feed silo.

Disadvantage

Pad with anchor bots required.
Crane erection required

End User Signature: _____ Date _____