

1. Type of Blender: Rotary blender supported by pillow block in rear and roller wheel in front.
2. Configuration: Blender drum to be cylindrical, mounted in horizontal position, with rear (drive end) entering manway.
3. Capacity: Total internal volume of blender drum to be approximately 219 Ft.³.
4. Height: Overall height of blender installed is not to exceed 8'-6".
5. Drum dimensions: Inside diameter 7'-10 $\frac{1}{2}$ " Nominal Dia. 8'
 Inside length 4'-6"
6. Drum Bucket Design: Buckets are to be triangular prismoids. Buckets are to be reinforced at point of joining with drum heads to prevent cracking of welds joining fillets between buckets and drum heads.
- 7.1 Feed Duct: Duct design to be defined later. Supplied by Monsanto
- 7.2 Feed Charge Door: To be mounted on face plate with two swing bolts, one on each side, so that it may be removed and blender charge chute may be installed for polymer charging to blender.
8. Discharge Door Seal: This door is to be operated by direct action from external air cylinder. Connection of door to collection chute to be the same as on Sturtevant Dwg. #40218. This door is to seal against an angle iron frame welded to the hopper door opening. The discharge chute to have a double row drawer type grate magnet as shown on Dwg. #40218. The door gasket must completely cover the face.
9. Collection Chute: Collection chute is to be of same design as those provided by Sturtevant Mill Co. and shown on Dwg. #40218. Collection chute is to be supported by knee brace from front cylinder head.
- 10.1 Material of Construction: All product contacting surfaces to be type 304 stainless steel. This includes drum, buckets, collection chute, feed hopper and feed hopper seal door. Other parts of blender to be specified by manufacturer.
- 10.2 Surface finish: All product contacting surfaces are to have a surface roughness no greater than 32 micro inches except for welds which shall have a surface roughness no greater than 64 micro inches.

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BLENDER

EQUIP. NO. N302.000 Rev.1

SPECIFICATION

AUTH NO. 1513

AREA NO. 300

PROJ/DEPT. 1513 Compounding

BY S.R. Monroe

DATE 1/24/67

LOCATION CED

PLANT MOCAN

APPO. *[Signature]*

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10.3 Construction: Fabrication of the blender shall be done as follows:

- A) All corners, bends, etc. in the drum, feed hopper and other product contacting areas shall be formed mechanically wherever possible.
- B) All welding shall be done on flat surfaces wherever possible. Welding in corners is to be minimized.
- C) All welds in the product contacting areas shall be ground flush.

11. Mounting: Blender as supplied is to be mounted on 8 shear type vibration isolation mounts shown on Dwg. #40218. △

12. Drive consists of the following:

- A) 30 HP motor, 550 V., 3 phase, 60 cps, TEFC construction suitable for vertical mounting with drive shaft pointed down. Motor to be supplied by Monsanto. Falk Steelflex Coupling shall be provided by Vendor. △
- B) Gear Reducer: Right angle drive unit with vertical input shaft and horizontal output shaft. Vendor shall provide support for reducer and motor. Falk Steelflex Coupling shall be provided by Vendor. △
- C) Drive Gears: Pinion mounted on output shaft of Gear Reducer. Pinion to be made of Micarta Grade C or equivalent Gear grade material. Ring gear mounted on blender drum to be made of cast steel.

13. Controls: Manufacturer is to specify and supply the solenoid valves, air filter/regulator/lubricator etc. for control of the pneumatic cylinder on the feed chute seal door. Manufacturer is to supply limit switches mounted on the feed hopper to detect the position of the feed chute seal door.

All electrical items are to be provided for 110 volt, 1 phase, 60 cps power.

14. Miscellaneous: Blender is to have a vent 3 inches diameter located in the front face, above the center line and to the RIGHT of the charge door.

The blender to have one (1) 3" dia. s. steel plug and one (1) 10" opening with quick-opening closure located 180° apart on the centre line of the blender drum. Inside face of the plug and the 10" closure to be smooth and flush. △

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