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SECTION: Z4.20.100

ZM1766

0921

Supersedes

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## 71 SERIES GRINDER PUMP PRODUCT FEATURES 3, 5, & 7.5 HP



### APPLICATIONS

- Sewage lift stations
- Housing developments
- Low pressure sewer systems
- High vertical lift or long force mains

### MATERIAL FEATURES PUMP:

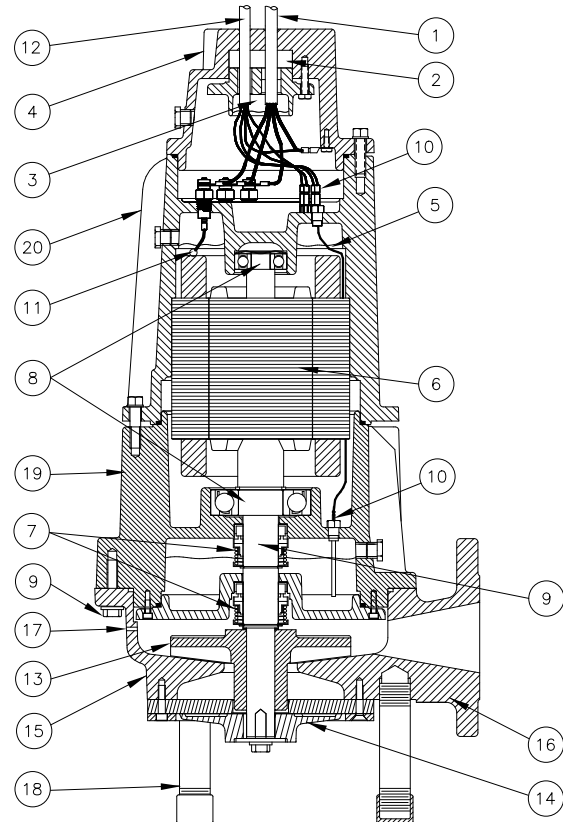
- 440 stainless steel cutter and plate hardened to Rockwell C55-60
- Discharge size - 2-1/2" flanged horizontal adaptable to 3" flange, 2" NPT optional
- Seals - dual mechanical carbon/rotary ceramic/stationary, Buna-N elastomers
- Moisture detection system
- Construction - cast iron ASTM A-48, Class 30, 30,000# tensile strength, protected with a corrosion-resistant baked on epoxy powder coating
- Balanced concentric pump housing and impeller
- Attaching hardware - 304 stainless steel
- Square ring seals - Buna-N
- Impeller - ductile iron vortex design
- Optional:
  - ☐ Trimmed impeller
  - ☐ Silicon carbide seal(s)
  - ☐ Bronze vortex Impeller
  - ☐ Viton square ring seals
  - ☐ Additional cord length \_\_\_\_ ft.
  - ☐ High flow
  - ☐ Automatic reversing - (3-Phase flanged models only)
  - ☐ 2" NPT vertical discharge - HH and HF units only
  - ☐ Rail systems

### MOTOR:

- 1 Phase - 230 Volt (3 & 5 HP only)
- 3 Phase - 200/230/460/575 Volt, 3450 RPM
- Stator - Class F insulation and lead wires Nema B design
- Thermal sensor with leads
- Housing - cast iron, oil-filled
- Ball bearings - upper and lower high carbon chromium steel
- Power and sensor cable length - 25' (7.6 m)

### FEATURES:

1. 25' heavy duty power cable.
2. Protected cable entrance. The compression grommet allows for field replacement of the cable.
3. Each conductor is individually sealed to eliminate cord wicking of liquids.
4. Lifting lug integral part of housing.
5. Oil-filled motor housing assures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
6. Heavy duty motor features ball bearing construction. Class F motor insulation is double dipped and baked. End connections and lead wires are Class F. At maximum load, winding temperature will not exceed 250 °F (121 °C) with motor housing not submerged.
7. Tandem seals. Carbon/rotating, ceramic/stationary, Buna-N elastomers.
8. Upper and lower high carbon chromium steel ball bearings.
9. Stainless steel shaft and non-corrodible hardware.
10. Patented moisture detection system with upper and lower probes, protecting the motor from liquid entry.
11. Thermal sensor protection.
12. 25' sensor cable.
13. Ductile iron vortex impeller design, bronze optional, fully balanced with integral pump out vane to clear debris.
14. "Star" type stainless steel cutter and plate hardened to Rockwell C55-60.
15. Concentric case reduces radial loading for longer bearing and seal life.
16. 2½" flanged horizontal discharge adaptable to 3" flange. Optional 2" NPT vertical discharge available for HH and HF models.
17. Vent hole helps prevent air lock.
18. Screw on pipe legs for field flexibility.
19. Class 30 cast iron housing protected with corrosion-resistant baked on epoxy powder coating.
20. Finned motor housing for quicker heat dissipation.



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