

# MYERS® VR1 SERIES 1 HP AUTOMATIC GRINDER PUMPS

## SHREDDING WASTEWATER CHALLENGES



**PATENTED AXIAL  
CUTTER TECHNOLOGY**



**EASY INSTALLATION**



**PERFORMANCE**

# MYERS® VR1 SERIES AUTOMATIC GRINDER PUMPS

The Myers® VR1 grinders feature a patented axial cutter technology that easily slices through solids and trash found in domestic wastewater without roping or clogging. They come with plenty of standard features to make installation a breeze.

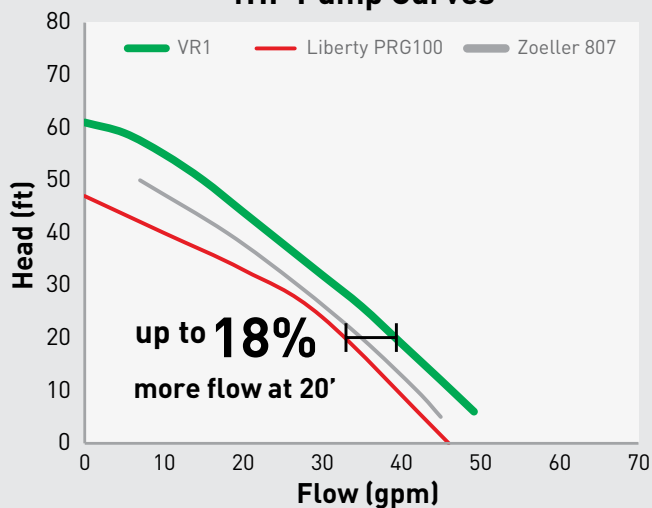


The VR1 is an ideal upgrade for residential sewage pumps struggling with trash and debris found in residential wastewater.



## OUTPERFORMING THE COMPETITION

### 1HP Pump Curves



\*Based on internal test data and published competitive flow curves.



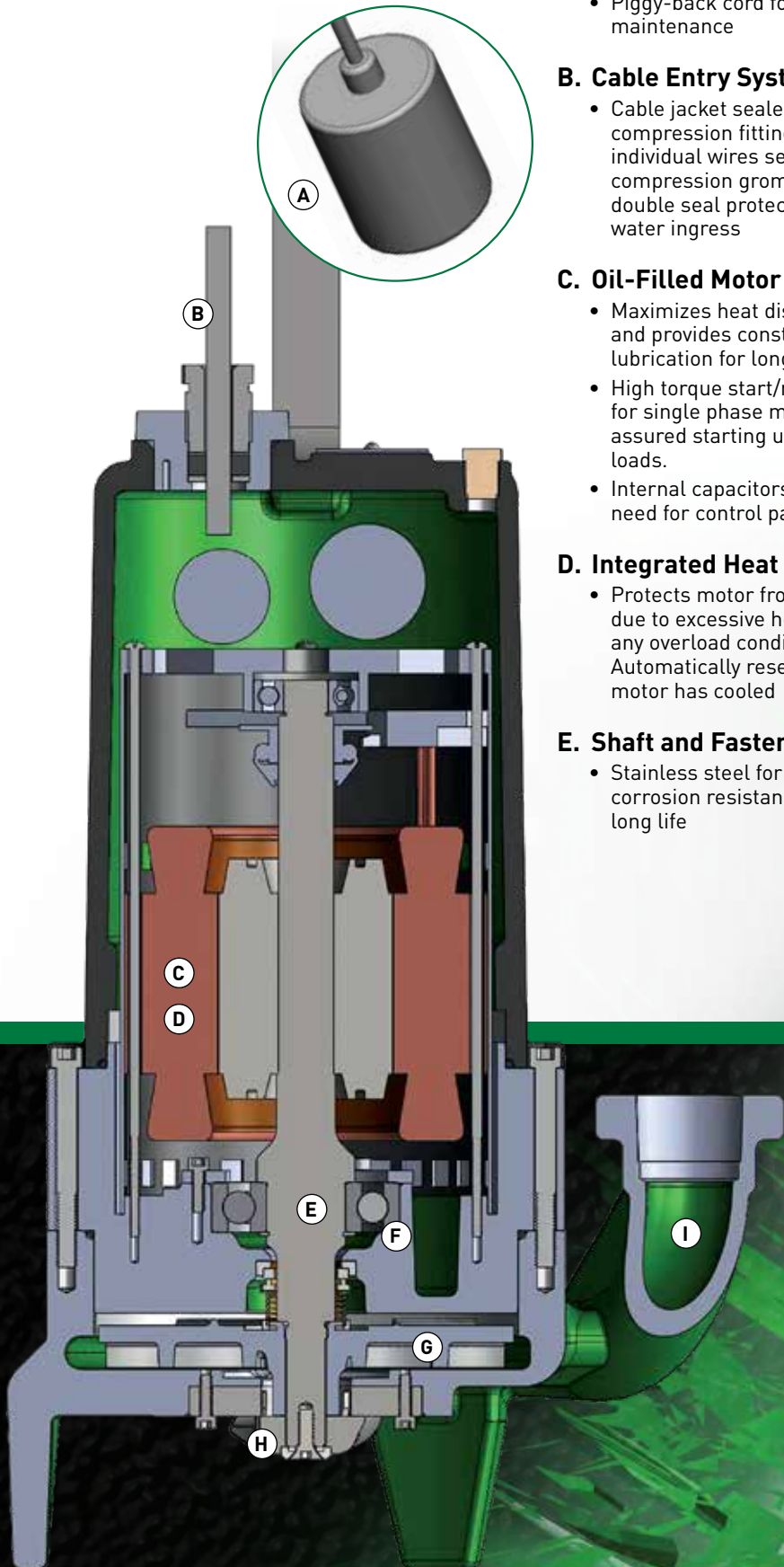
### PATENTED AXIAL CUTTER TECHNOLOGY

Easily slices through solids and trash found in domestic wastewater without roping or clogging.

Watch the video at [www.femyers.com](http://www.femyers.com)



# FEATURES



## A. Wide Angle Float Switch

- Piggy-back cord for easy maintenance

## B. Cable Entry System

- Cable jacket sealed by compression fitting and individual wires sealed by compression grommet for double seal protection against water ingress

## C. Oil-Filled Motor

- Maximizes heat dissipation and provides constant bearing lubrication for long life
- High torque start/run capacitor for single phase motors for assured starting under heavy loads.
- Internal capacitors eliminate need for control panel

## D. Integrated Heat Sensor

- Protects motor from burnout due to excessive heat from any overload condition. Automatically resets when motor has cooled

## E. Shaft and Fasteners

- Stainless steel for maximum corrosion resistance and long life

## F. Shaft Seals

- Oil lubricated single carbon and ceramic faced seal provides motor protection

## G. Impeller

- Semi-open impeller handles ground slurry without clogging or binding
- Pump-out vanes help keep trash from seal and reduces pressure at seal face for longer life

## H. Axial Cutter System

- Easily slice through solids and trash commonly found in domestic wastewater without roping or clogging
- Constructed of 440 SST hardened to 57-60Rc for long life
- Easily replaceable without dismantling pump

## I. Volute Case

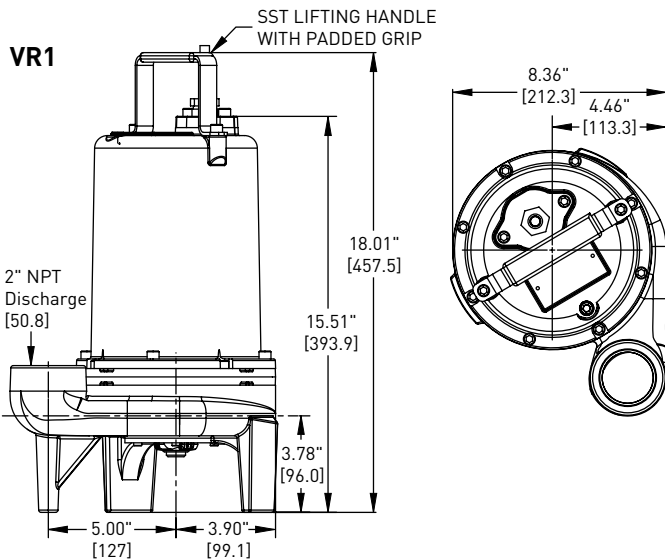
- 2" vertical discharge (VR1)



# PERFORMANCE DATA AND DIMENSIONS

3450 RPM

[Dimensions in mm]



## Electrical Data

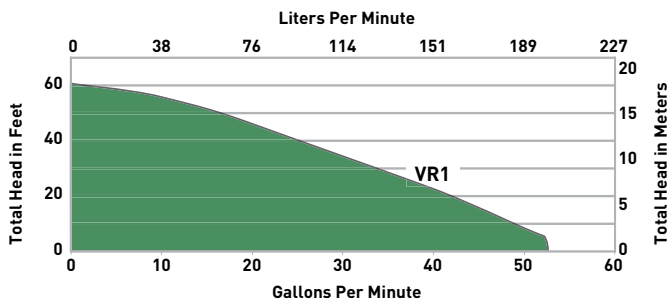
| Model     | Engineering Number | HP | Voltage | Phase | Hz | Full Load Amps | Start Amps | Cord Length | Discharge | Switch | Weight |
|-----------|--------------------|----|---------|-------|----|----------------|------------|-------------|-----------|--------|--------|
| VRS10A-11 | 28172D000          | 1  | 115     | 1     | 60 | 13             | 39.9       | 20          | 2"        | Auto   | 70     |
| VRS10M-11 | 28172D001          | 1  | 115     | 1     | 60 | 13             | 39.9       | 20          | 2"        | Manual | 70     |
| VRS10A-21 | 28172D002          | 1  | 230     | 1     | 60 | 7              | 20.3       | 20          | 2"        | Auto   | 70     |
| VRS10M-21 | 28172D003          | 1  | 230     | 1     | 60 | 7              | 20.3       | 20          | 2"        | Manual | 70     |

## Construction Materials

|   |                               |
|---|-------------------------------|
| Motor Housing, Seal Housing, Cord Cap and Volute Case | Cast Iron, Class 30, ASTM A48 |
| Semi-Open Impeller                                    | thermoplastic                 |
| Power Cord  | SJ00W                         |
| Mechanical Seals: Standard                            | Carbon and Ceramic            |
| Pump, Motor Shaft                                     | 416 SST                       |
| Fasteners   | 300 Series SST                |
| Cutting Mechanism                                     | 440 SST<br>58-60 Rockwell     |

## Product Capabilities

|                                     |                                     |            |
|-------------------------------------|-------------------------------------|------------|
| Capacities To:                      | 52 gpm                              | 196.8 lpm  |
| Heads To:                           | 60 ft.                              | 18.3 m     |
| Liquids Handling                    | domestic raw sewage                 |            |
| Intermittent Liquid Temp. (Class F) | up to 140°F                         | up to 60°C |
| Winding Insulation Temp. (Class F)  | 311°F                               | 155°C      |
| Motor Electrical Data               | 3450 rpm, 60 Hz, 1 ph<br>115V, 230V |            |
| Std. Third Party Approvals          | CSA                                 |            |
| Acceptable pH Range                 | 6 - 9                               |            |
| Specific Gravity                    | .9 - 1.1                            |            |
| Viscosity                           | 28 - 35 SSU                         |            |
| Discharge (Flange Dia.)             | 2 in.                               | 50.8 mm    |
| Min. Sump Diameter                  | 24 in.                              | 61.0 mm    |



1101 MYERS PARKWAY, ASHLAND, OH 44805 WWW.FEMYERS.COM  
PH: 855-274-8947

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

