



VH30-75 & VHX30-75

STANDARD AND HAZARDOUS LOCATION
3-7.5 HP SUBMERSIBLE GRINDER PUMPS

SHREDDING WASTEWATER CHALLENGES

IN COMMERCIAL, INDUSTRIAL
& MUNICIPAL APPLICATIONS



PATENTED
AXIAL CUTTER
TECHNOLOGY



LEGENDARY SEAL
LEAK DETECTION

Hazardous Location
Models Only



MYERS® VH(X)30-75 SERIES

SHREDDING WASTEWATER CHALLENGES

The Myers VH(X)30-75 grinders feature a patented axial cutter design to effectively macerate challenging sewage solids into a fine slurry.

These rugged 3-7.5 HP submersible centrifugal grinder pumps are available in standard and hazardous location construction making them ideal for commercial, industrial and municipal applications.

VH(X)30-75 grinder pumps can be installed in a variety of packaged systems.

Factory-assembled simplex or duplex packages with guide rail systems are available. Individual rail components are also available for installation in on-site concrete systems.



Watch the Axial Cutter in action at www.femyers.com



POLY ROPE



SHOP RAG



SWIFFERS®



MOP HEAD

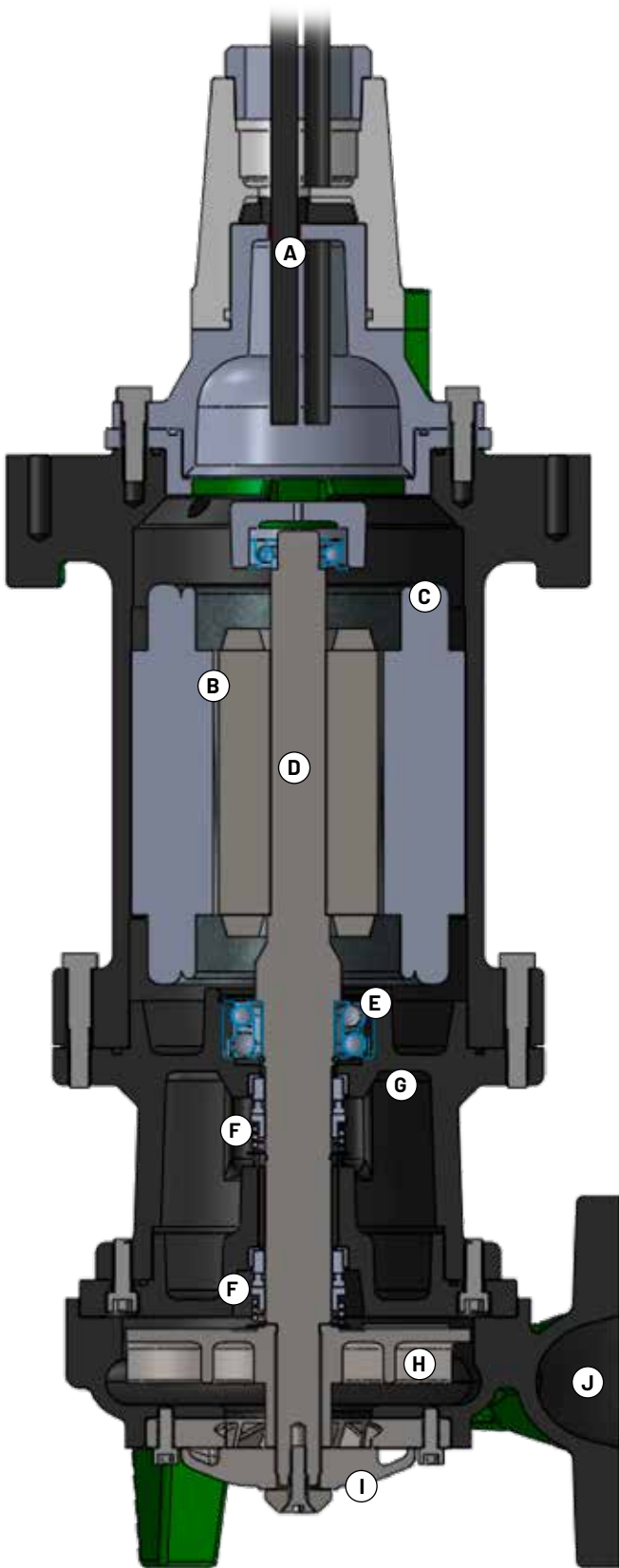
Product Capabilities

| | | |
|---|---|------------|
| Capacities To: | 90 gpm | 340 lpm |
| Heads To: | 140 ft. | 42.67 m |
| Liquids Handling | domestic raw sewage | |
| Intermittent Liquid Temp. | up to 140°F | up to 60°C |
| Winding Insulation Temp. (Class F) | 311°F | 155°C |
| Motor Electrical Data <small>(Single phase motors are capacitor start type. Myers control panels or capacitor kits are recommended for proper operation and warranty.)</small> | 3-5 hp, 3450 rpm 1 ph - 230 volts; 60 Hz 3 ph - 200, 230, 460, 575 volts; 60 Hz | |
| Std. Third Party Approvals | CSA | |
| Optional Approvals | Class I, Groups C & D (VHX30-75) | |
| Acceptable pH Range | 6 - 9 | |
| Specific Gravity | .9 - 1.1 | |
| Viscosity | 28 - 35 SSU | |
| Discharge (Flange Dia.) | 2-1/2 in. | 63.5 mm |
| Min. Sump Diameter | | |
| Simplex | 36 in. | 91.4 cm |
| Duplex | 48 in. | 121.9 cm |

Construction Materials

| | |
|---|----------------------------------|
| Motor Housing, Seal Housing, Cord Cap and Volute Case | Cast Iron, Class 30, ASTM A48 |
| Impeller | Semi-open, SST |
| Power Cord | S00W, W |
| Control Cord | S00W |
| Mechanical Seals: | |
| Standard | Double Tandem Carbon and Ceramic |
| Optional | Lower Tungsten Carbide |
| Pump, Motor Shaft | 416 SST |
| Fasteners | 300 Series SST |
| Cutting Mechanism | 440 SST 58-60 Rockwell |

FEATURES



A. Cable Entry System

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

B. Oil-Filled Motor

- Maximizes heat dissipation and provides constant bearing lubrication for long life
- High torque single phase motor with start/run capacitor or three-phase motors for assured starting under heavy loads

C. Heat Sensor

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

D. Heavy 416 SST Shaft

- Corrosion resistant and reduces shaft deflection for long life

E. Double Row Ball Bearings

- Lower double row angular ball bearings absorbs both axial and radial loads for increased durability

F. Shaft Seals

- Located in oil-filled seal chamber for continuous lubrication
- Dual mechanical shaft seals for superior motor protection

G. Seal Leak Probe

- Located in seal chamber instead of motor area for true early warning of water leaks. Allows corrective action before costly motor or bearing failure occurs
- Activates warning light in control panel

H. Impeller

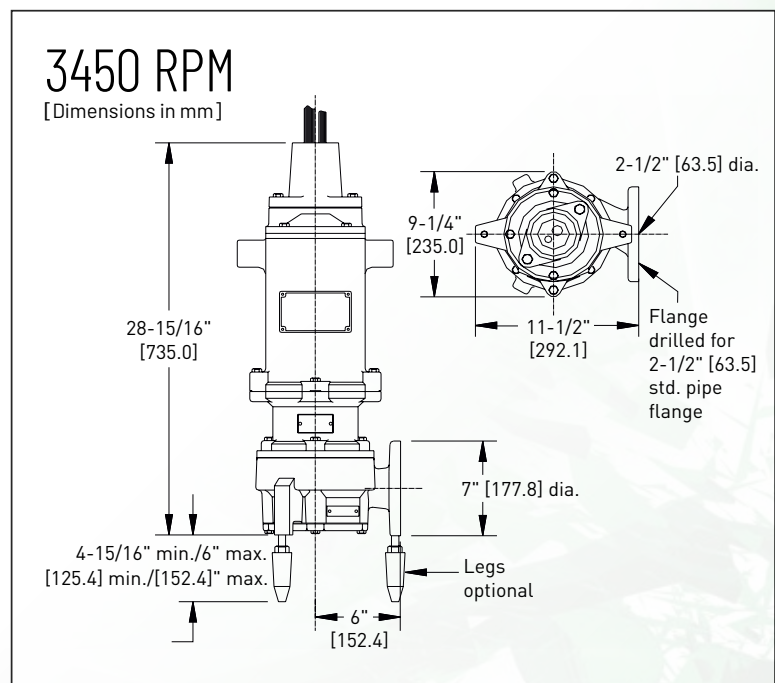
- SST, semi-open impeller provides improved performance and resists clogging
- Pump-out vanes help keep trash from seal and reduces pressure at seal face for longer life

I. Axial Cutter System

- Constructed of 440 SST hardened to 57-60Rc for long life
- Easily replaceable without dismantling pump

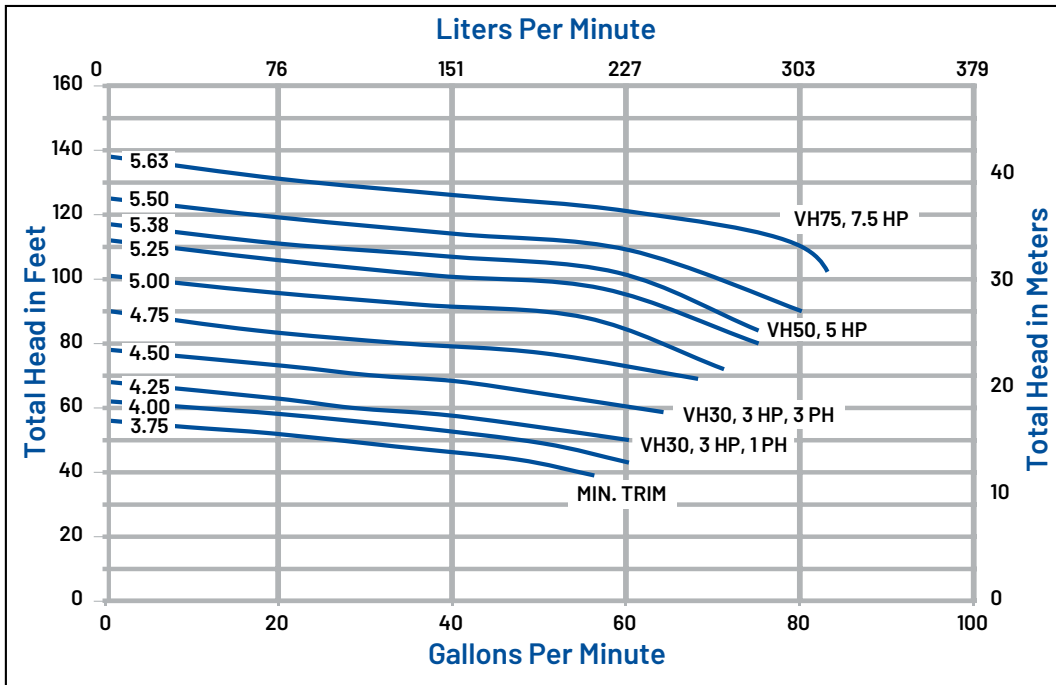
J. Volute Case

- Cast iron, horizontal discharge
- Drilled for 2-1/2" pipe flange



PERFORMANCE AND ELECTRICAL DATA

VH75 - VH30 Performance



| | V/Ph/Hz | HP | Start Amps | FL Amps | Full Load kW | Start KVA | FL KVA | NEC Code Letter | Service Factor | Model |
|-----------|----------|-----|------------|---------|--------------|-----------|--------|-----------------|----------------|------------|
| High Head | 230/1/60 | 3 | 92 | 21 | 4.3 | 21.1 | 4.8 | H | 1.4 | VH(X)30-21 |
| | 208/3/60 | 3 | 80 | 15 | 4.3 | 28.8 | 5.4 | L | 1.4 | VH(X)30-03 |
| | 230/3/60 | 3 | 72 | 13 | 4.3 | 28.6 | 5.2 | L | 1.4 | VH(X)30-23 |
| | 460/3/60 | 3 | 36 | 6.5 | 4.3 | 28.6 | 5.2 | L | 1.4 | VH(X)30-43 |
| | 575/3/60 | 3 | 26 | 5.2 | 4.3 | 25.9 | 5.2 | K | 1.4 | VH(X)30-53 |
| | 230/1/60 | 5 | 145 | 32 | 7.9 | 33.4 | 8.1 | H | 1.7 | VH(X)50-21 |
| | 208/3/60 | 5 | 126 | 21.6 | 6.3 | 45.3 | 7.8 | L | 1.7 | VH(X)50-03 |
| | 230/3/60 | 5 | 150 | 18.8 | 6.9 | 59.7 | 7.5 | N | 1.7 | VH(X)50-23 |
| | 460/3/60 | 5 | 75 | 9.4 | 6.9 | 59.7 | 7.5 | N | 1.7 | VH(X)50-43 |
| | 575/3/60 | 5 | 43 | 7.5 | 6.3 | 42.8 | 7.5 | K | 1.7 | VH(X)50-53 |
| | 208/3/60 | 7.5 | 126 | 25.8 | 7.9 | 45.3 | 8.9 | G | 1.15 | VH(X)75-03 |
| | 230/3/60 | 7.5 | 150 | 22.4 | 8.2 | 59.7 | 8.9 | J | 1.15 | VH(X)75-23 |
| | 460/3/60 | 7.5 | 75 | 11.2 | 8.2 | 59.7 | 8.9 | J | 1.15 | VH(X)75-43 |
| | 575/3/60 | 7.5 | 43 | 9 | 7.9 | 31 | 8.9 | D | 1.15 | VH(X)75-53 |



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