

MYERS®

V3, V5, V7 SERIES
3-7.5 HP SUBMERSIBLE
GRINDER PUMPS

SHREDDING WASTEWATER CHALLENGES

IN COMMERCIAL, INDUSTRIAL & MUNICIPAL APPLICATIONS



**PATENTED AXIAL CUTTER
TECHNOLOGY**



**LEGENDARY SEAL
LEAK DETECTION**

MYERS® V3, V5, V7 SERIES

SHREDDING WASTEWATER CHALLENGES

The Myers V3, V5 and V7 grinders feature a patented axial cutter design to effectively macerate challenging sewage solids into a fine slurry.

These rugged 3-7.5 horsepower submersible centrifugal grinder pumps are available in standard flow or high head configurations making them ideal for commercial, industrial and municipal applications.

V3, V5 and V7 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®

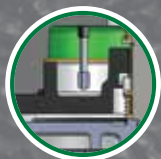


MOP HEAD



PATENTED AXIAL CUTTER TECHNOLOGY

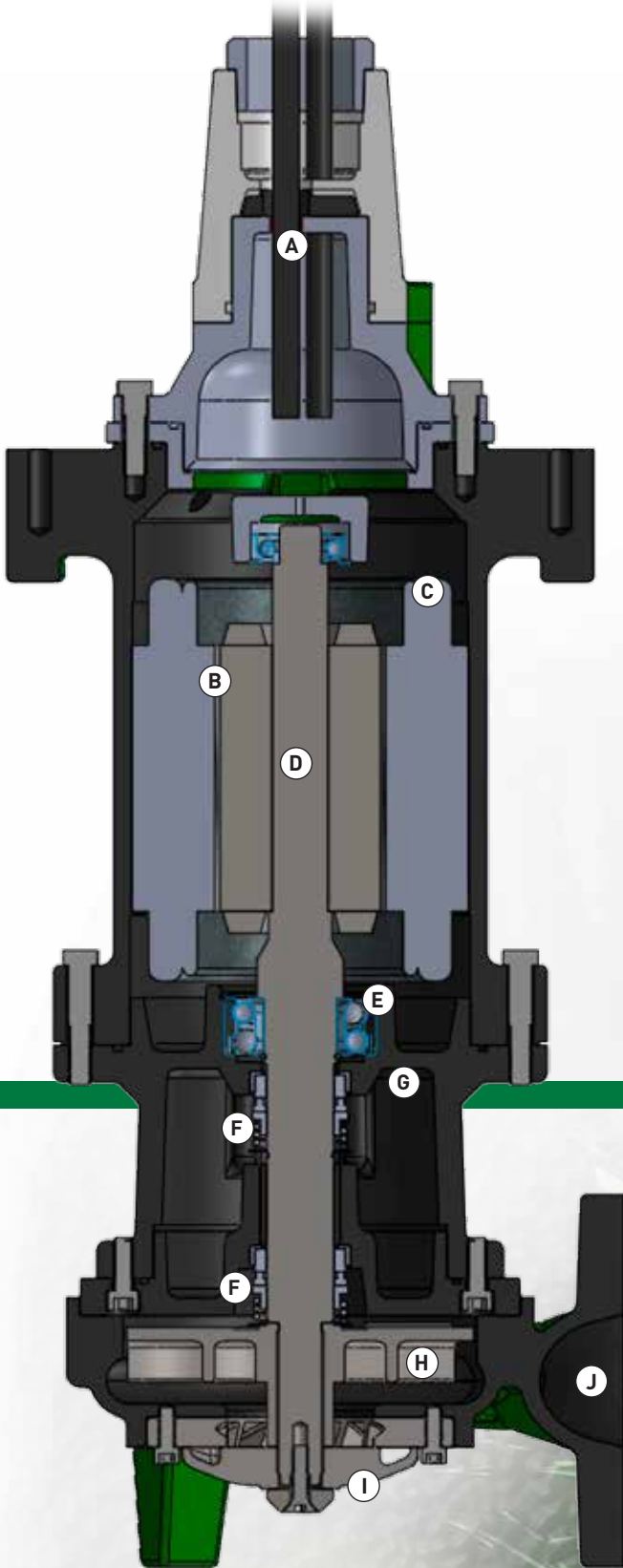
Easily slices through solids and trash found in wastewater without roping or clogging.



LEGENDARY SEAL LEAK DETECTION

True early warning system for reduced downtime and maintenance costs.

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

CUTTING SYSTEM

Easily switch between standard and high head flows by simply changing the impeller and cutter plate.

HIGH HEAD CUTTING PLATE



STANDARD CUTTING PLATE



BLADE

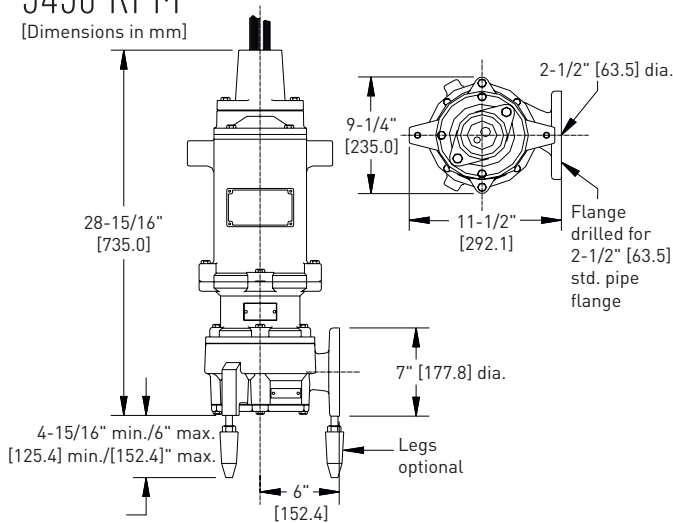




PERFORMANCE DATA AND DIMENSIONS

3450 RPM

[Dimensions in mm]



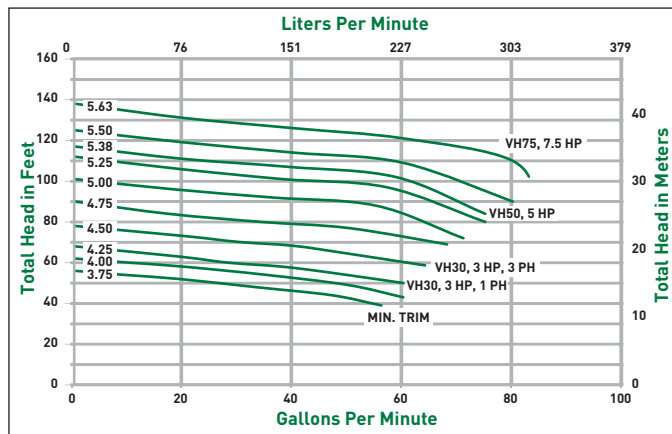
Product Capabilities

Capacities To:	Standard Flow	140 gpm	530 lpm
	High Head	90 gpm	340 lpm
Heads To:	Standard Flow	104 ft.	28.04 m
	High Head	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	3-5 hp, 3450 rpm <small>(Single phase motors are capacitor start type. Myers control panels or capacitor kits are recommended for proper operation and warranty.)</small> 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 (VSX30-50, 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 48 in. Duplex 91.4 cm 121.9 cm		

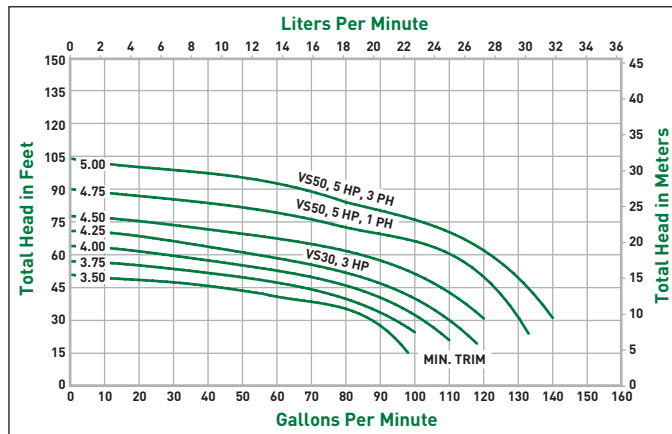
Construction Materials

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

VH75 - VH30 Performance



VS50 - VS30 Performance



	V/Ph/Hz	HP	Start Amps	FL Amps	Full Load kW	Start KVA	FL KVA	NEC Code Letter	Service Factor	Model
Standard Flow	230/1/60	3	145	30.5	6.5	33.4	7.0	M	2.0	VS(X)30-21
	208/3/60	3	126	19.6	6.0	45.3	7.1	R	2.0	VS(X)30-03
	230/3/60	3	150	17.8	6.0	59.7	7.1	T	2.0	VS(X)30-23
	460/3/60	3	75	8.9	6.0	59.7	7.1	T	2.0	VS(X)30-43
	575/3/60	3	43	7.1	6.0	42.8	7.1	R	2.0	VS(X)30-53
	230/1/60	5	145	35	8.0	33.4	8.1	H	1.7	VS(X)50-21
	208/3/60	5	126	24.2	8.0	45.3	8.7	L	1.7	VS(X)50-03
	230/3/60	5	150	21.9	8.0	59.7	8.7	N	1.7	VS(X)50-23
	460/3/60	5	75	10.9	8.0	59.7	8.7	N	1.7	VS(X)50-43
	575/3/60	5	43	8.8	8.0	42.8	8.8	K	1.7	VS(X)50-53

	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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Hazardous Location
 Models Only



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