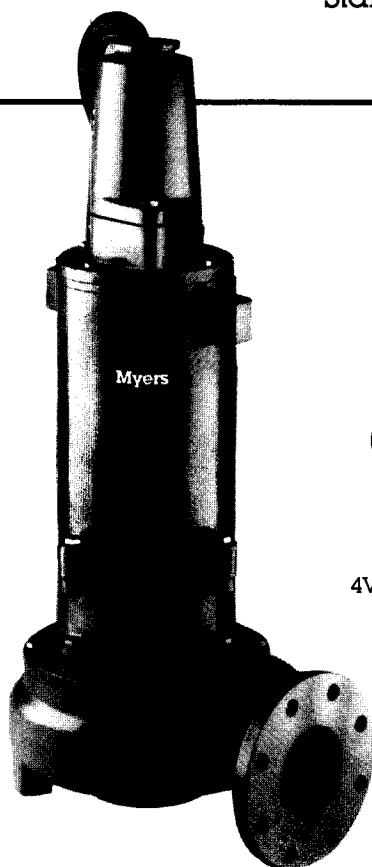


4VH and 4VHX (EXPLOSION-PROOF)

4" Non-clog Wastewater Pumps
Standard (4VH) and Explosion-proof (4VHX) Construction



4VHX only

THE 4VH AND 4VHX (EXPLOSION-PROOF) SUBMERSIBLE WASTEWATER PUMPS ARE A HEAVY-DUTY 4" NON-CLOG SERIES CAPABLE OF PASSING A FULL 3" SPHERICAL SOLID.

Myers rounded port, 2-vane, enclosed impellers prevent solids from binding or clogging and offer high operating efficiencies to cut your pumping costs. The 4VH series modified constant velocity volute case provides smooth operation over an extended portion of the performance curve for longer seal and bearing life. For use in municipal lift stations, treatment plants and industrial waste applications. Myers offers a complete line of wastewater pumps, lift-out rail assemblies, controls and accessories to meet your needs. Call your Myers distributor, or the Myers Ohio sales office at 419/289-1144 for more details.

ADVANTAGES BY DESIGN

HIGH EFFICIENCY HYDRAULIC DESIGN CUTS PUMPING COSTS AND EXTENDS LIFE OF FLUID END COMPONENTS.

- Two-vane, rounded port, enclosed type impellers handle 3" solids with ease at high operating efficiencies.
- Modified constant velocity volute offers quiet operation, low radial loads over extended portion of performance curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Heat sensor thermostats imbedded in windings protect motor from over heat conditions.
- Seal leak probes warn of moisture entry; helps prevent costly motor burn-out.
- Double tandem shaft seals prevent sewage from entering motor.
- Power and control cables are double sealed with epoxy and compression grommet.

AVAILABLE WITH OPTIONAL U.L. APPROVAL FOR USE IN CLASS 1, GROUP D HAZARDOUS LOCATIONS (4VHX ONLY).

- 4VHX file number E 68118.
- Non-sparking rail system file number E 76984N.

PRODUCT CAPABILITIES

Capacities To	900 GPM	56.7 L/S
Heads To	85 ft.	25.9 m
Solids Handling Capacity	3 in. dia.	76 mm dia.
Liquids Handling	raw unscreened sewage, effluent, storm water	
Intermittent Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. (Class F)	311°F	155°C
Available Motors	1750 RPM: 5-20 HP, 200, 230, 460, 575V, 3Ø, 60 Hz 1150 RPM: 3 and 5 HP, 200, 230, 460, 575V, 3Ø, 60 Hz	
Std. Third Party Approvals	CSA	
Optional Approvals	UL Class 1, Group D (4VHX only) file E68118	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge, Horizontal Flanged Centerline	4 in., 125 lb. ANSI	101.6 mm

NOTE: Consult factory for applications outside of these recommendations.

Construction Materials	
Motor Housing, Seal Housing, Cord Cap and Volute Case	cast iron, Class 30 ASTM A48-76
Enclosed 2-Vane Impeller (Optional Single Vane)	ductile iron, Class 65 ASTM A536-80
Power and Control Cord	25 ft. SOW/SOW-A
Mechanical Seals	double tandem, type 21
Standard	carbon and ceramic
Optional	lower tungsten carbide
Pump, Motor Shaft	416 SST
Fasteners	300 Series SST
Volute Wear Ring	brass

WHERE INNOVATION MEETS TRADITION

4VH and 4VHX (EXPLOSION-PROOF)

4" Non-clog Wastewater Pumps
Standard (4VH) and Explosion-proof (4VHX) Construction

POWER & CONTROL CORDS

SOW-A, UL and CSA approved oil-resistant cable.

CABLE ENTRY SYSTEM

Provides double seal protection. Cable jacket sealed by compression grommet. Individual wires sealed by epoxy potting.

HEAT SENSOR

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

MOTOR STATOR

Heat shrunk into housing for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.

BALL BEARINGS

Upper and lower ball bearings support shaft and rotor and take axial and radial loads.

SHAFT SEALS

Double tandem mechanical shaft seals protect motor. Oil-filled seal chamber provides continuous lubrication.

SEAL LEAK PROBES

Detect water in seal housing. Activate warning light in control panel. (Test resistor on UL listed models.)

SLEEVE BEARING

Takes radial shock load; provides flame path. (UL listed pumps only.)

HEAVY 416

SST SHAFT

Corrosion resistant.

VOLUTE CASE

Modified constant velocity volute handles 3" solids. 4" ANSI 125 lb. flange.

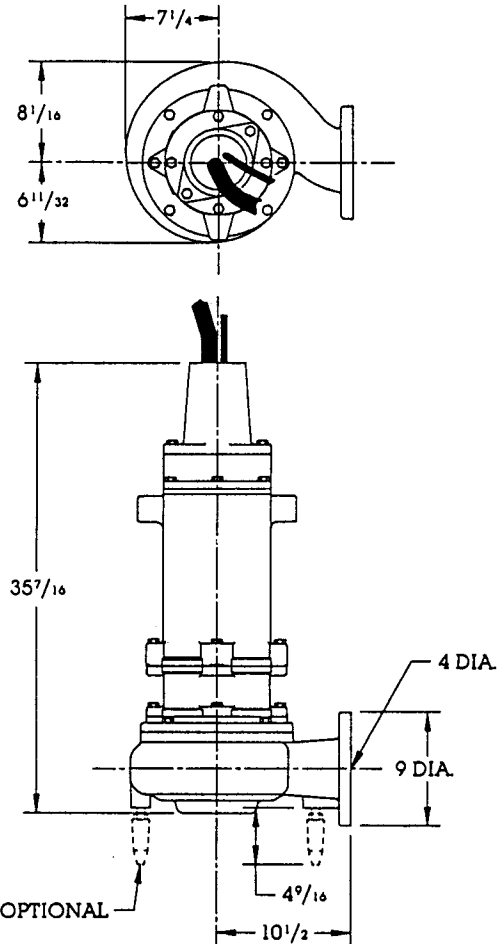
HIGH EFFICIENCY IMPELLER

2-vane with rounded ports. (Optional single vane) Handles 3" solids. Pump out vanes help keep trash from seal; reduces pressure at seal faces.

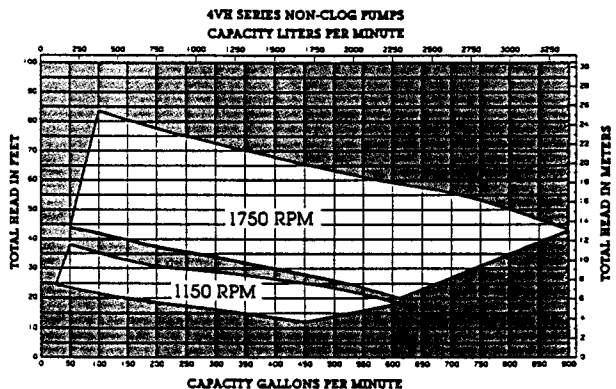
BRASS WEAR RING

Prevents rust build-up and reduces leakage and wear. Replaceable to restore original running clearances and pump efficiencies.

DIMENSIONS



PERFORMANCE CURVE



K3376 01/01
Printed in U.S.A.

Myers®
Pentair Pump Group

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