

4VHA and 4VHAX

4" Non-Clog Wastewater Pumps
Standard (4VHA) and Explosion-Proof (4VHAX)



THE HIGH HEAD 4VHA AND 4VHAX (EXPLOSION-PROOF) SUBMERSIBLE NON-CLOG WASTEWATER PUMPS FEATURE HEAVY DUTY CONSTRUCTION AND HIGH OPERATING EFFICIENCIES. Myers rounded port, 2-vane, enclosed impeller prevent solids from binding or clogging and offer high operating efficiencies to cut your pumping costs. The 4VHA series constant velocity volute provides smooth operation over an extended portion of the performance curve for longer seal and bearing life. For use in raw water, storm water, effluent and drainage applications. Myers offers a complete line 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 impeller operates at high 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 overheat 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 LOCATION (4VHAX ONLY).

- 4VHAX file number E68118
- Non-sparking rail system file number

PRODUCT CAPABILITIES

Capacities To	680 gpm	42.9 l/s
Heads To	106 ft.	32.3 m
Solids Handling Capacity	2 in. dia.	51 mm dia.
Liquids Handling	raw water, effluent, storm water	
Intermittent Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. (Class H)	356°F	180°C
Available Motors	1750 RPM 5 - 15 HP 200/230/460/575 volts 3 phase, 60 Hz	
Std. Third Party Approvals	CSA (pending)	
Optional Approvals	UL Class 1, Group D (4VHAX only)	
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	ductile iron, Class 30 ASTM A536
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

Myers®

Pentair Pump Group

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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 lubrications.

SEAL LEAK PROBES

Detect water in seal housing. Activates warning light in control panel. (Test resistor on UL-listed pumps only.)

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. 4" ANSI 125 lb. flange.

HIGH EFFICIENCY IMPELLER

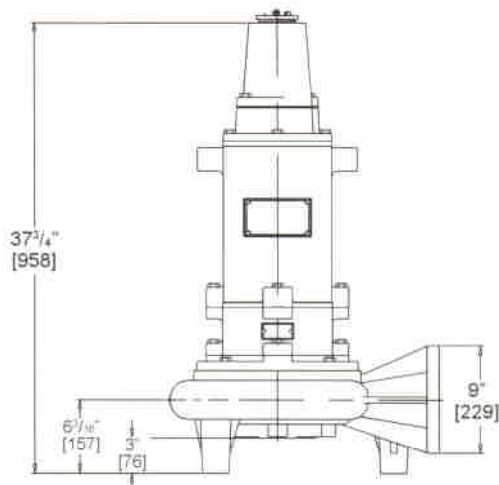
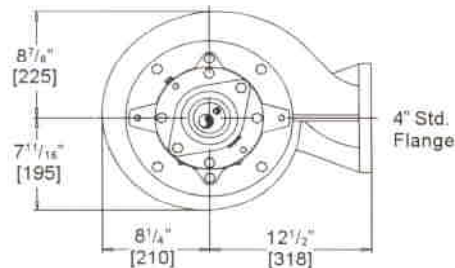
2-vane with rounded ports. Handles 2" solids. Pump out vanes help keep trash from seal; reduces pressure at seal faces.

BRASS WEAR RING

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

DIMENSIONS

[] Dimensions in mm



PERFORMANCE CURVE

