

# 4VLDP and 4VLXDP

## Submersible Dry Pit

4" High Head Non-Clog Wastewater Pumps  
Standard (4VLDP) and Explosion-Proof (4VLXDP)



**T**HE MYERS 4VLDP SUBMERSIBLE DRY PIT NON-CLOG SEWAGE PUMPS ARE DESIGNED ESPECIALLY FOR HIGH FLOW APPLICATIONS SUCH AS: municipal stations, treatment plants, transfer stations and dewatering. The ability to handle solids up to 3 inches in diameter makes it ideal for most high flow wastewater applications. For more information, contact your Myers distributor, or the Myers Ohio sales office at 419-289-1144.

### ADVANTAGES BY DESIGN

#### HIGH EFFICIENCY HYDRAULIC DESIGN CUTS PUMPING COSTS AND EXTENDS THE LIFE OF THE PUMP

- Two-vane, rounded port impeller handles 3" solids with ease at high operating efficiencies.
- Produces high head.

#### DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Class H insulation.
- Continuous duty/VFD magnet wire.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Internal thermal overload protection.
- Double tandem shaft seals prevent sewage from entering motor.
- Internal seal leak probes warn of moisture entry.
- Triple sealed power and control cables.

### PRODUCT CAPABILITIES

Capacities To	2100 gpm	8000 lpm
Heads To	275 ft.	84 m
Solids Handling	3 in.	76 mm
Liquids Handling	raw unscreened sewage, drain water, effluent	
Intermittent Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. (Class H)	356°F	180°C
Available Motors	1750 RPM 50, 60, 75, 100, 125 HP 460 & 575 volts 3 phase, 60 Hz	
Std. Third Party Approvals	CSA (pending)	
Optional Approvals	FM Class 1, Groups C & D (pending - 4VLXDP only)	
Acceptable pH Range	6 - 9	
Specific Gravity	.9 - 1.1	
Viscosity	28 - 35 SSU	
Discharge, Horizontal	4 in.	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
Impeller	ductile iron, Class 65 ASTM A536
Power and Control Cord	25 ft. SOW/SOW-A
Double Tandem Mechanical Seals	Std. - carbon & ceramic opt. - lower tungsten carbide
Pump, Motor Shaft	416 SST
Fasteners	300 Series SST
Case Wear Ring	bronze
Base Elbow	cast iron, Class 30 ASTM A48-76

WHERE INNOVATION MEETS TRADITION

**Myers**®

Pentair Pump Group

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### CABLE ENTRY SYSTEM

Cable jackets sealed with clamped, rubber grommet. Individual wires sealed with epoxy to prevent wicking in case of cable damage.

### TERMINAL BOARD

Provides easy connections from power and control cables to stator. Allows voltage change in field on dual winding motors.

### HEAT SENSOR ON MOTOR WINDING

Opens to de-energize motor starter if winding temperature reaches 150°C. Automatic reset.

### MOTOR STATOR

Oil-filled for continuous lubrication of bearings and seals. Class H insulation.

### BALL BEARINGS

Upper and lower ball bearings.

### DUAL SEAL LEAK PROBES

Detect water in seal housing. Activates warning light in control panel.

### DOUBLE TANDEM SHAFT SEALS

Protect motor, operate in clean oil.

### HORIZONTAL DISCHARGE VOLUTE CASE

4" 125 lb. flange.

### HEAVY 416 SST SHAFT

Reduces deflection from impeller radial loads. Tapered and keyed to accept impeller.

### HIGH EFFICIENCY IMPELLER

Two-vane, rounded design. Passes 3" spherical solids.

### CLEAN-OUT PORT

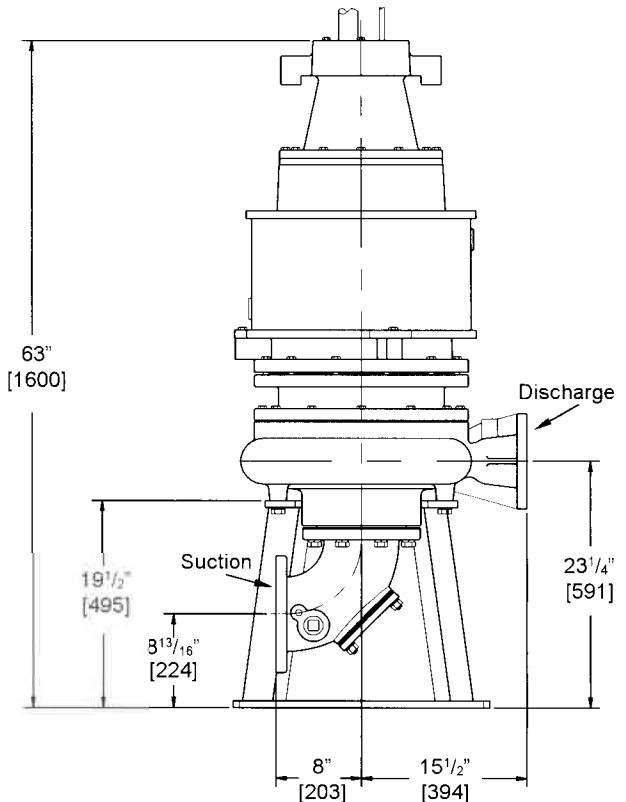
Easy access for servicing.

### BRONZE WEAR RING

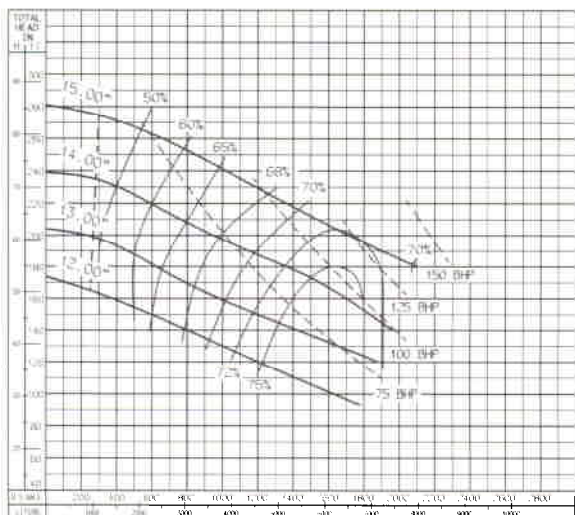
Reduces by-pass leakage and wear. Replaceable to restore original running clearances and pump efficiencies.

## DIMENSIONS

[ ] Dimensions in mm



## PERFORMANCE CURVE



K4095 5/00  
Printed in U.S.A.



**Myers**

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