

4VEDP and 4VEXDP

Submersible Dry Pit

4" High Head Non-Clog Wastewater Pumps
Standard (4VEDP) and Explosion-Proof (4VEXDP)



THE 4VEDP AND 4VEXDP (EXPLOSION-PROOF) SUBMERSIBLE DRY PIT WASTEWATER PUMPS ARE A HEAVY-DUTY 4" NON-CLOG SERIES CAPABLE OF PASSING A FULL 3" SPHERICAL SOLID. Myers rounded port, single vane, enclosed impeller prevent solids from binding or clogging and offer high operating efficiencies to cut your pumping costs. The 4VEDP 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, treatment plants and industrial waste applications. Myers offers a complete line of submersible dry pit wastewater pumps, 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 THE LIFE OF THE PUMP.

- Single vane, rounded port, enclosed type impeller handles 3" solids with ease at high operating efficiencies.

- Non-clogging design for trouble-free operation.
- Produces high heads.

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 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 | 650 gpm | 2500 lpm |
| Heads To | 172 ft. | 52 m |
| Solids Handling | 3 in. | 76 mm |
| Liquids Handling | raw unscreened sewage, 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 15 - 30 HP 200/230/460/575 volts 3 phase, 60 Hz | |
| Std. Third Party Approvals Optional Approvals | CSA (pending) FM Class 1, Groups C & D (pending - 4VEXDP 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 |
| Impeller | ductile iron, Class 65 ASTM A536 |
| Power and Control Cord | 25 ft. SOW/SOW-A |
| Mechanical Seals Standard Optional | double tandem, type 21 carbon and ceramic lower tungsten, carbide |
| Pump, Motor Shaft | 416 SST |
| Fasteners | 300 Series SST |
| Volute Wear Ring | brass |
| Base Elbow | cast iron, Class 30, ASTM A48-76 |

WHERE INNOVATION MEETS TRADITION

Myers®

Pentair Pump Group

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4" High Head Non-Clog Wastewater Pumps
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POWER & CONTROL CORDS

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

CABLE ENTRY SYSTEM

Provides triple seal protection. Cable jacket sealed by compression grommet. Individual wires sealed by epoxy potting. Terminal board separates motor chamber from cord cap.

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. Class H insulation.

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.

HEAVY 416 SST SHAFT

Corrosion resistant.

SLEEVE BEARING

Takes radial shock load; provides flame path.

VOLUTE CASE

High efficiency volute handles 3" solids. 4" ANSI 125 lb. flange.

CLEAN-OUT PORT

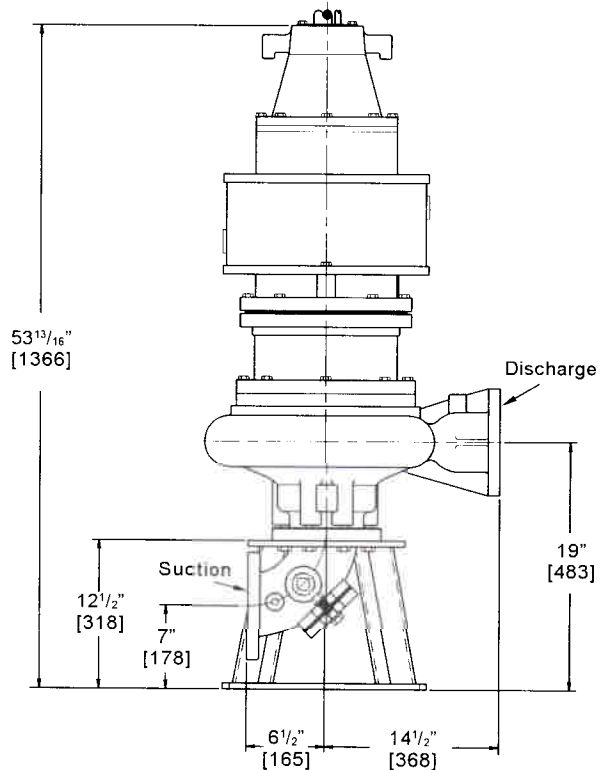
Easy access for servicing.

HIGH EFFICIENCY IMPELLER

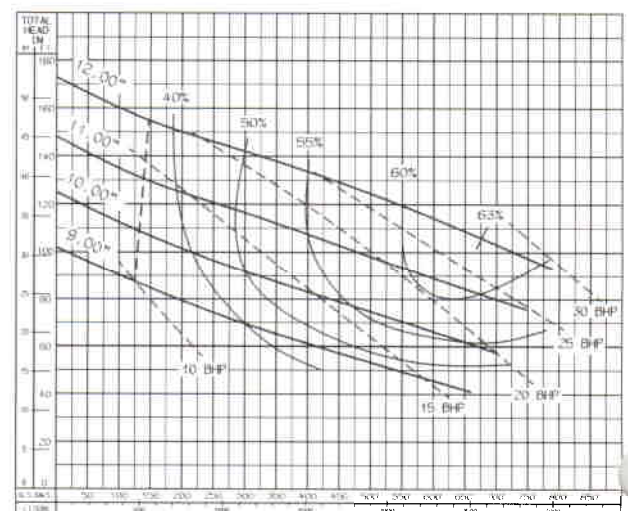
Single vane with rounded ports. Handles 3" solids.

DIMENSIONS

[] Dimensions in mm



PERFORMANCE CURVE



K4091 2/02
Printed in U.S.A.

Myers®
Pentair Pump Group

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