

4VE and 4VEX (EXPLOSION-PROOF)

4" High Head Non-clog Wastewater Pumps
Standard (4VE) and Explosion-proof (4VEX) Construction



APPROVED
(4VEX only)



THE 4VE AND 4VEX (EXPLOSION-PROOF) SUBMERSIBLE 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 4VE 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 THE LIFE OF THE PUMP.

- Single vane, rounded port, enclosed 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 rated.
- 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	775 gpm	2900 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	CSA	
Optional Approvals	FM Class 1, Groups C & D (4VEX 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
Impeller	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

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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, take axial and
radial loads.

SHAFT SEALS

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

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.

BRASS WEAR RING

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

HIGH EFFICIENCY IMPELLER

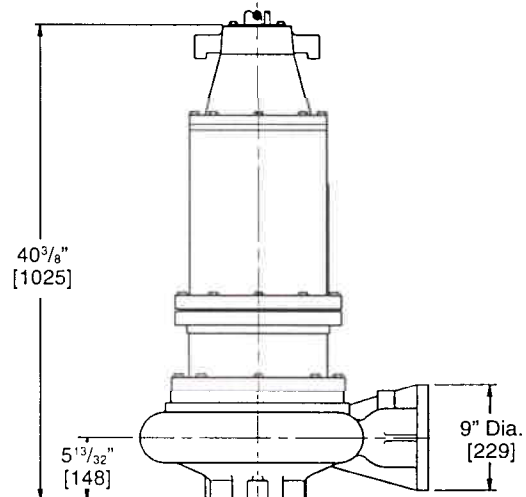
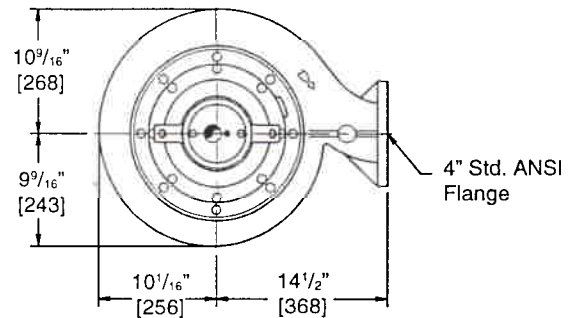
Single vane with rounded
ports. Handles 3" solids.

VOLUTE CASE

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

DIMENSIONS

[] Dimensions in mm



PERFORMANCE CURVE

