

4V and 4VX (EXPLOSION-PROOF)

4" Non-clog Wastewater Pumps
Standard (4V) and Explosion-proof (4VX) Construction



4VX only

THE 4V AND 4VX (EXPLOSION-PROOF) SUBMERSIBLE WASTEWATER PUMPS PASS A FULL 3" SPHERICAL SOLID AND ARE THE IDEAL CHOICE WHEN SELECTING A PUMP FOR YOUR NEXT APPLICATION. Myers rounded port, 2-vane, enclosed impellers prevent solids from binding or clogging and offer high operating efficiencies to cut your pumping costs. The 4V series modified constant velocity volute case provides smooth operation over an extended portion of the performance curve for extended 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 (4VX ONLY).

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

PRODUCT CAPABILITIES

Capacities To	715 GPM	45.1 L/S
Heads To	59 ft.	17.9 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 B)	266°F	130°C
Available Motors (Single phase motors are capacitor start type. Myers control panels or capacitor kits are required for proper operation and warranty.)	1750 RPM: 3-5 HP, 230V, 1Ø, 60 Hz 3-10 HP, 200, 230, 460, 575V, 3Ø, 60 Hz 1150 RPM: 1-2 HP, 200, 230V, 1Ø, 60 Hz and 208, 230, 460, 575V, 3Ø, 60 Hz	
Std. Third Party Approvals	CSA	
Optional Approvals	UL Class 1, Group D (4VX 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	ductile iron, Class 65 ASTM A536-80
Power and Control Cord	25 ft. SOW/SOW-A
Mechanical Seals	double tandem, type 21 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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4" Non-clog Wastewater Pumps
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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 pro-
vides continuous lubrication.

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

**HEAVY 416
SST SHAFT**
Corrosion
resistant.

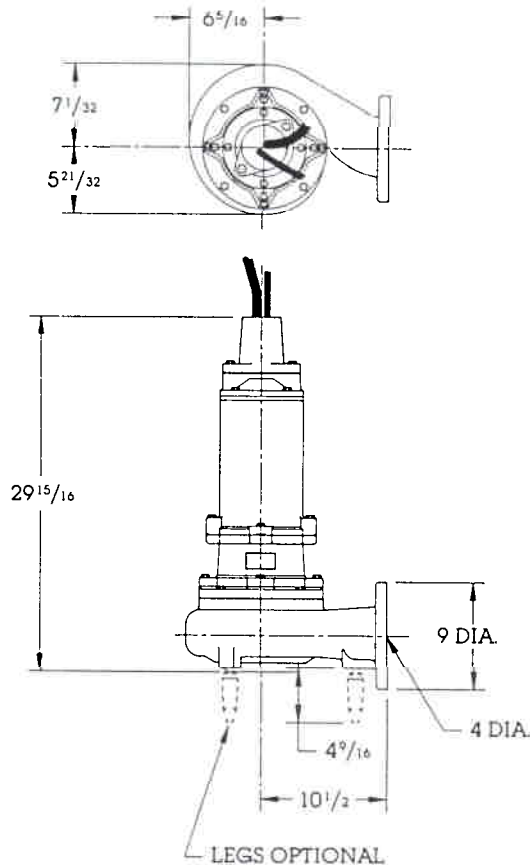
SLEEVE BEARING
Takes radial shock load;
provides flame path. (UL
listed pumps only.)

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

HIGH EFFICIENCY IMPELLER
2-vane with rounded ports.
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

