

# WEINMAN<sup>®</sup>

## Series 3300

## Self-Priming Centrifugal Pumps

### *Proven Performers for Efficient, Reliable Service*

Weinman offers a full line of self-priming centrifugal pump models in electric-drive configurations specially designed for sewage, wastewater, dewatering, and solids-handling applications. Each unit is designed with an exclusive, self-priming feature and is uniquely engineered for clog-free operation. When you specify a Weinman self-priming centrifugal pump, you receive the extra advantages of quality engineering... reliable performance... and continuous, trouble-free operation.

2" - 6" Discharge Sizes

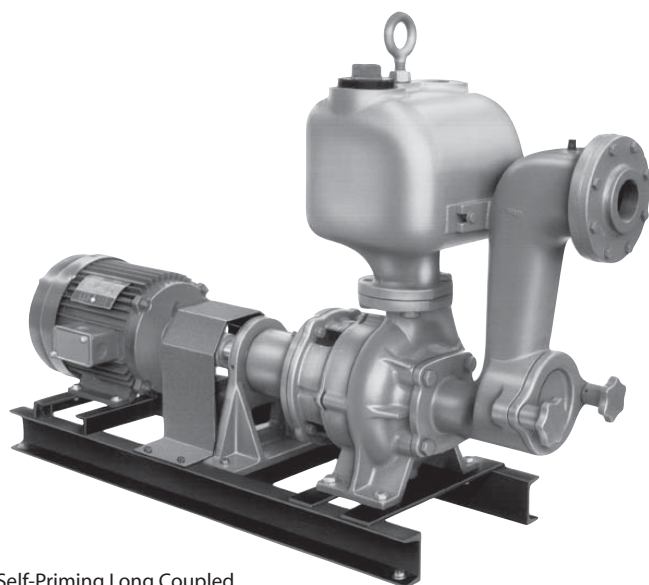
Heads to 110 Feet

Capacities to 1,200 GPM



# Self-Priming Centrifugal Pumps

## Dewatering, Sewage and Wastewater



Self-Priming Long Coupled



Self-Priming Belt Drive

### Mid-Whirl 2WC-2/2W-2

The Mid-Whirl 2WC-2 and 2W-2 are proven performers in industrial and agricultural process plants. WS models are non-self priming.

- Suction & discharge size: 2 in.
- Maximum solids size: 1 $\frac{7}{8}$  in.
- Capacities to 250 gpm, heads to 78 ft.

### Mid-Whirl 3W-2

Similar to the application capabilities of the Mid-Whirl Models 2WC-2 and 2W-2 pumps, the 3W-2 pump provides exceptional solids-handling capabilities with higher performance characteristics.

- Suction & discharge size: 3 in.
- Maximum solids size: 2 $\frac{7}{8}$  in.
- Capacities to 420 gpm, heads to 75 ft.

### Mid-Whirl 3WC-4/3W-4

The Mid-Whirl 3WC-4 and 3W-4 pumps are ideal for handling sewage, sludge, industrial waste, and trash-laden fluid pumping applications.

- Suction & discharge size: 3 in.
- Maximum solids size: 1 $\frac{3}{4}$  in.
- Capacities to 300 gpm, heads to 78 ft.

### Mid-Whirl 4W-8

The large solids-handling capabilities and the high-flow capacities make the Mid-Whirl 4W-8 the preferred pump design for municipal sludge and industrial wastewater applications.

- Suction & discharge size: 4 in.
- Maximum solids size: 3 $\frac{7}{8}$  in.
- Capacities to 775 gpm, heads to 115 ft.

### Mid-Whirl 6W-2

The Mid-Whirl 6W-2 offers the same dependable Weinman pump performance, but in a larger model ideally suited for demanding municipal and industrial solids applications.

- Suction & discharge size: 6 in.
- Maximum solids size: 4 $\frac{1}{4}$  in.
- Capacities to 1100 gpm, heads to 115 ft.

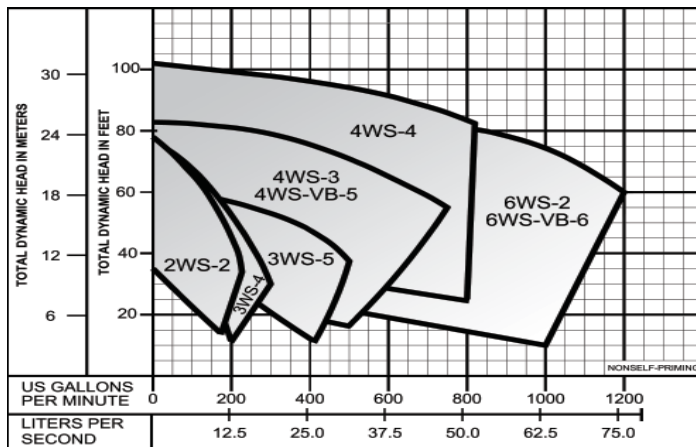
Note: Models 2WC-2/2W-2, 3W-2, 3WC-4/3W-4, 4W-8, and 6W-2 are available in non-self-priming and vertical configurations. (Consult factory.)

# Performance Curves for Weinman Electric-Driven Pumps

## Non-Self-Priming

### Maximum Performance based on:

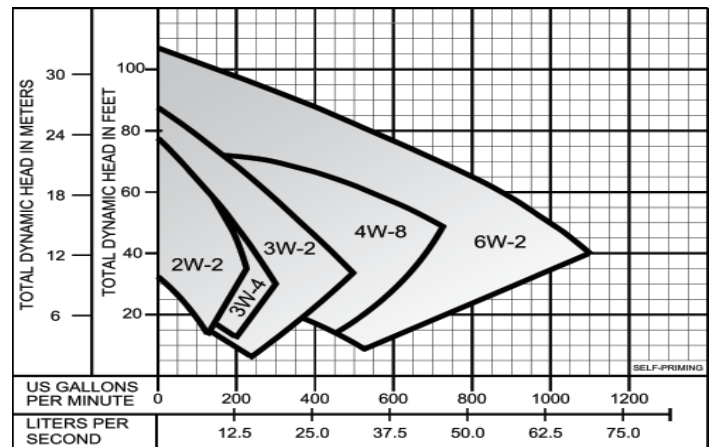
- 2WS-2 & 3WS-4 & 3WS-5 - 2600 RPM
- 4WS-3 & 4WS-VB-5 - 2000 RPM
- 4WS-4 & 6WS-VB-6 - 1750 RPM



## Self-Priming

### Maximum Performance based on:

- 2W-2 & 3W-4 - 2600 RPM
- 3W-2 - 2400 RPM
- 4W-8 & 6W-2 - 2000 RPM



## Electric Motor Specifications

Model	hp	Max. rpm <sup>1</sup>	Drive <sup>1</sup>	Model	hp	Max. rpm <sup>1</sup>	Drive <sup>1</sup>
2WC-2	3	1750	Close-Coupled	3W-4	-	2600	Long-Coupled/Belt Drive
3WC-4	5	1750	Close-Coupled	4W-8	-	2400	Long-Coupled/Belt Drive
2W-2	-	2600	Long-Coupled/Belt Drive	6W-2	-	2400	Long-Coupled/Belt Drive
3W-2	-	2400	Long-Coupled/Belt Drive				

Models are available in various motor options (horsepower, speed, voltage and phase). Pumps can be equipped with close-coupled, long-coupled, or belt drives.

<sup>1</sup>Long-coupled pump speed 1750/1150 rpm. belt drive pump speeds to 2400 or 2600 rpm, depending on model.

NOTE: Available in non-self-priming and vertical configurations. (Consult factory.)

### Features

#### Cast-Iron Pump Case

Close-grained, cast-iron ASTM Class 30 material case, designed without ridges or pockets, avoids collection of sludge or waste materials.

#### Seal Plate and Stuffing Box

Close-grained, cast-iron stuffing box accepts a variety of packing or single/double mechanical seals. Single mechanical seals only on 2" and 3" models. (3" models equipped with a seal housing adapter and wear plate.)

#### Heavy-Duty Bearings

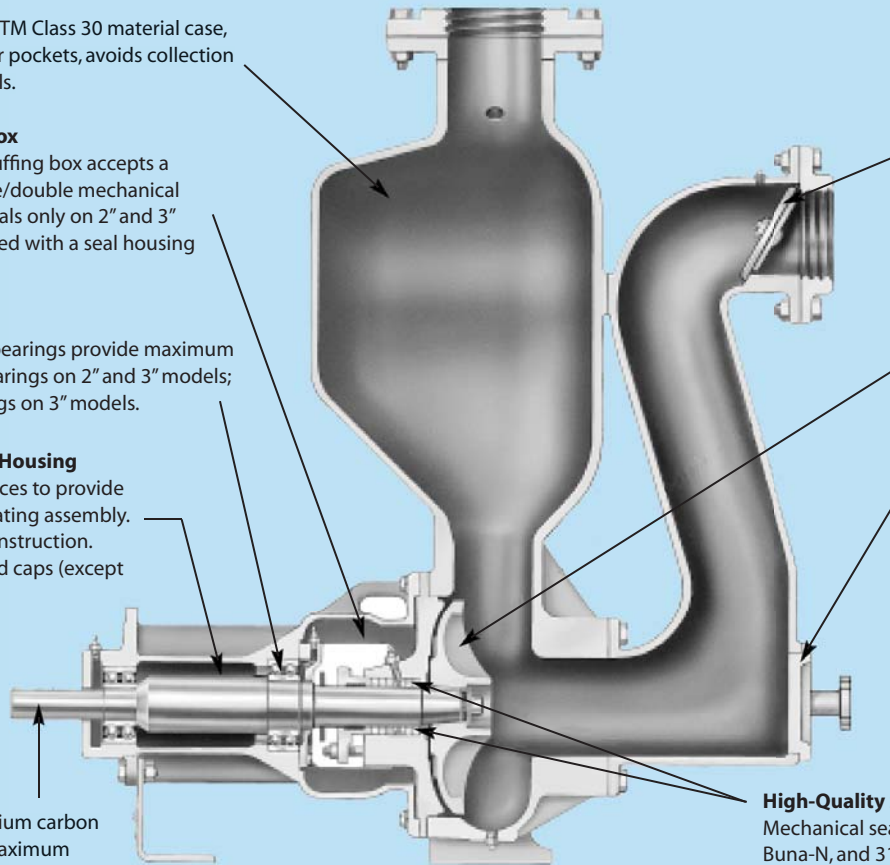
Double-row, greased ball bearings provide maximum bearing life. Single-row bearings on 2" and 3" models; permanently lubed bearings on 3" models.

#### Precision-Bored Bearing Housing

Machined for close tolerances to provide mechanical support of rotating assembly. Close-grained, cast-iron construction. Fitted with removeable end caps (except on 2" and 3" models).

#### High-Strength Shaft

Available in SAE 1045 medium carbon or 316 stainless steel for maximum loads and minimum deflection.



#### Suction Check Valve

Retains liquid in pump casing to effectively prime pump and prevent upstream liquid from draining back beyond suction port.

#### "Free-Flow Clogless" Impeller

Clogless recessed design creates vortex hydraulic action for efficient handling of solids and stringy materials. Available in close-grained cast iron or 316 stainless steel.

#### Clean-Out Port

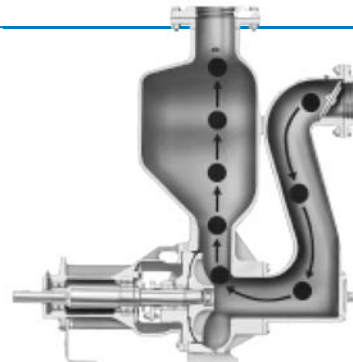
An efficient maintenance and service feature for fast, easy access into pump interior to remove clogs and inspect pumping elements. Close-grained, cast-iron construction.

#### High-Quality Shaft Seals

Mechanical seals with carbon, ceramic, Buna-N, and 316 stainless steel components. Optional seals and packings available.

#### How the Free-Flow Clogless Impeller Works...

Weinman's solids-handling, self-priming centrifugal pumps feature a fully recessed impeller for superior handling of trash-laden fluids and wastewater. The unique impeller design develops a powerful, swirling vortex action of incoming fluid. Material flows in front of the impeller, not through it, to effectively pump large suspended solids without clogging.



## CRANE®

A Crane Co. Company

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