

**Arranged by Discharge Size then Solid Size**

Model	Discharge		Solids Size	Nom	Impeller		Mount Style	Floor Plate OD	Pump Opening Size	Shaft		Max HP	
	Size	Type			Type	Type				Dia.	Max L	1150 RPM	1750 RPM
1307	1 1/2	NPT	1/2	7	Semi-Open	Cover	20	18	1	142	3/4	2	
2104	2	ANSI	Grinder	7	Semi-Open	2613	14 x 24	12 x 22	1	90	--	2	
2105	2	NPT	Grinder	7	Semi-Open	Cover	20	18	1	100	--	2	
1316	2	ANSI	1/2	7	Semi-Open	2613	14 x 24	12 x 22	1	90	3/4	2	
1303	2	NPT	1/2	8 5/16	Semi-Open	Cover	20	18	1	142	1 1/2	5	
1373	3	NPT	1	10 1/2	Enclosed	Cover	20	18	1 1/4	152	5	15	
1371	3	NPT	1 1/2	10 1/2	Semi-Open	Cover	20	18	1 1/4	152	5	15	
2103	3	ANSI	2 1/4	7	Semi-Open	2613	14 x 24	14 x 24	1	96	1 1/2	5	
2108	3	NPT	2 1/4	7 1/2	Semi-Open	Cover	20	18	1	142	2	7 1/2	
2219	3	NPT	2 1/2	9	Semi-Open	Cover	20	18	1 1/4	152	--	10	
1374	4	ANSI	1	10 1/2	Enclosed	Cover	20	18	1 1/4	152	5	15	
2107	4	ANSI	2 1/4	7	Semi-Open	2613	14 x 24	12 x 22	1	96	--	5	
2109	4	ANSI	2 1/4	7 1/2	Semi-Open	Cover	20	18	1	142	2	7 1/2	
2224	4	ANSI	2 1/2	9	Semi-Open	Cover	20	18	1 1/4	151	5	15	
2228	4	ANSI	2 1/2	10 1/2	Enclosed	Cover	18 x 22	16 x 20	1 1/4	152	10	30	
2223	4	ANSI	3	9	Enclosed	Cover	20	18	1 1/4	152	5	15	
2215.2	6	ANSI	4	13	Enclosed	Cover	28 x 43	25 x 40	1 1/2	187	--	30	

Cover – Pump floor plate rests on the wet well cover  
2613 – Pump requires the 2613 Quick Removal System

**ANSI** American National Standard Institute 125# flange connection. Provided with holes for bolts fastening an adjoining ANSI flange pipe connection

**NPT** National Pipe Taper. Discharge is female NPT for threaded pipe.

**L** Distance from the bottom of the pump to the underside of the pump floor plate.

- Pump opening size is the hole size in the wet well cover required for pump installation and removal
- The floor plate bolts the pump to the wet well cover

- Good wet well design – 10 starts per hours
- Minimum Pump run time – 1 1/2 minutes

Use any of these models as clean water removal pumps. Install in collection pits, wet wells, rainwater sumps, etc. A suction strainer is included up to and including 1 1/2 inch solids-handling models

Models with a 2 inch or larger solids-handling size can be used for unscreened wastewater, industrial waste, and surface drainage.

Install a single pump (simplex) or two pumps (duplex) depending on the job application. Select a level control device from one of the three following types:

- 8200 Mechanical Lever
- 8220 Pressure Diaphragm
- 8230 Tethered Float

**Wet Well Capacities (Gallons)**

Diameter or Length & Width	Gallons per foot of depth	
	Round Tank	Square Tank
18"	13	17
24"	24	30
30"	37	47
36"	53	67
48"	94	120
60"	147	187
72"	212	269

**Minimum Flow**

(To prevent solids from settling out)

Discharge Pipe Size Diameter (inches)	Minimum Flow (GPM)
1 1/4	10
1 1/2	15
2	25
3	50
4	90
6	200

- Pump** Dependable heavy-duty pumps for pumping wastewater and other unscreened liquids containing solids. Designed for:
- Residential
  - Factories
  - Professional Office Buildings
  - Schools and Hospitals
  - Banks
  - Restaurants
  - Truck Loading Docks
- Thrust Bearing** Permanently grease lubricated, ball type, over-sized for increased life and capacity. Sealed to protect from dirt and moisture.
- Intermediate Bearing Housing** Cast iron with bronze sleeve bearing, grease lubricated
- Lower Bearing Housing** Cast iron with bronze sleeve bearing. All models are grease lubricated
- Leg(s)** Galvanized steel
- Shaft** High carbon steel, polished and ground. Sized to provide maximum safety and strength when pumping raw unscreened wastewater. 416 stainless steel is available as an option
- Impeller** Hydraulically and dynamically balanced. Trimmed to suit job conditions.
- Cast iron is standard on all models
  - Bronze is available as an option
- Case** Heavy-duty, close grain, high-density cast iron
- Strainer** Provided on all 1300 series models

### Level Controls

Ordered Separately

- 8200 – Mechanical Lever
- 8220 – Pressure Diaphragm
- 8230 – Tethered Float

**Motor** Vertical, solid shaft with NEMA-C mounting flange. The motor is connected to the pump with a flexible coupling.

Totally enclosed 60 Hz motors are standard  
 1150 RPM – 1/2 to 10 horsepower  
 1750 RPM – 3/4 to 30 horsepower

Single-phase motors are capacitor start induction run.

Single-phase voltages are 60 Hz, 115 or 208-230 volt with automatic reset thermal and overload protection.

Three-phase voltages are 60 Hz, 208-230 or 460 volt.

*Single and Three-phase 50 Hz models are available*

### Options

- Sleeve Bearings**
- **Rubber Cutless** – For abrasives. Allows abrasives to pass through the bearing sleeve without scoring the shaft.
  - **Graphite** – For chemical and high temperature applications

**Below Floor Discharge Tee** Provided when the pump discharge connection is below the cover

**Water Flush Connection** Requires a rubber cutless lower bearing and stainless steel shaft. A separate fresh water flush connection is provided, terminating at the pump floor plate. A 115-volt, 1/2 inch solenoid valve energizes the flushing system when the pump is operating.

**Two Section Construction** For deep wet wells or where there is limited headroom for installation. Pump shaft is rigidly coupled and locked into position