

### Overview

Weil Pump Company's line of Vertical, Submersible and Vortex Stainless Steel pumps are constructed of 316 stainless steel components for increased longevity and reliability, making it the perfect pump for severe and corrosive environments

Submersible Pumps – Arranged by Pump type then Discharge size										
Model	Discharge		Solids Size	Mount Style	Pump Type	Impeller		Max HP		
	Size	Type				Nom	Type	1150 RPM	1750 RPM	3450 RPM
1618 S	1 1/4	NPT	1/2	Floor	Sump	6	Semi-Open	--	3/4	--
1619 S	1 1/2	NPT	1/2	Floor	Sump	6	Semi-Open	--	3/4	--
1601 S	2	NPT	1/2	Floor	Sump	7	Semi-Open	3/4	2	
1607 S	2	ANSI	1/2	2613	Sump	7	Semi-Open	3/4	2	
1621 S	2	NPT	3/4	Floor	Sump	5	Enclosed	--	--	5
1622 S	2	ANSI	3/4	2613	Sump	5	Enclosed	--	--	5
2549 S	2	NPT	2	Floor	Sewage	7	Semi-Open	1 1/2	5	--
2545 S	3	NPT	2 1/4	Floor	Sewage	7	Semi-Open	1 1/2	5	--
2515 S	3	ANSI	2 1/4	2613	Sewage	7	Semi-Open	1 1/2	5	--
2575 S	2	NPT	2	Floor	Vortex	7	Semi-Open	1 1/2	5	--
2576 S	3	NPT	2	Floor	Vortex	7	Semi-Open	1 1/2	5	--
2573 S	3	ANSI	2	2613	Vortex	7	Semi-Open	1 1/2	5	--

Vertical Pumps – Arranged by Pump type then Discharge size												
Model	Discharge		Solids Size	Mount Style	Pump Type	Impeller		Max HP			Floor Plate OD	Shaft Dia.
	Size	Type				Nom	Type	1150 RPM	1750 RPM	3450 RPM		
1222 S	1 1/2	NPT	1/2	B C	Sump	6	Semi-Open	--	3/4	--	20 or 14	3/4
1309 S	2	NPT	1/2	C	Sump	7	Semi-Open	3/4	2	--	20	1
1245 S	2	NPT	1/2	B C	Sump	7	Semi-Open	--	1 1/2	--	20 or 14	3/4
1311 S	2	NPT	3/4	C	Sump	5	Enclosed	--	--	5	20	1
1226 S	2	NPT	2	B C	Sewage	6	Semi-Open	--	1 1/2	--	20 or 14	3/4
2108 S	3	NPT	2 1/4	C	Sewage	7	Semi-Open	1 1/2	5	--	20	1
2112 S	2	NPT	2	C	Vortex	5 1/2	Semi-Open	--	1 1/2	5	20	1
2113 S	3	NPT	2	C	Vortex	5 1/4	Semi-Open	--	1 1/2	5	20	1

B = Free Standing – Pump legs sit on the wet well floor

C = Cover Mount – Pump floor plate rest on the wet well cover

### Discharge Types:

**ANSI** American National Standard Institute 125# flange connection. The 2613 Removal System sliding bracket bolts to the ANSI flange.

**NPT** National Pipe Taper. Discharge has a threaded connection for threaded pipe or fittings.

### Motor Types:

**9709** Submersible pump motor  
 Double Tandem Seal  
 Carbon/Ceramic upper seal  
 Silicon carbide/silicon carbide lower seal  
 Elastomers are Viton  
 Stainless Steel spring

**NEMA** Vertical pump motor  
 Standard TEFC motor

### Impellers:

**Semi-Open** Full back shroud  
 No front shroud  
 Multi-vane  
 Water flows thru vanes  
 Close clearance of vane face to suction plate

**Enclosed** Full front and back shrouds  
 Multi-vane  
 Water flows thru "eye" opening and passes thru vanes  
 Tight radial and axial fit of eye to suction plate hole.

### Construction Guide

Construction	pH		
All Cast Stainless Steel	14	Increasing Alkalinity	
	13		
	12		
	11		
Cast Iron	10		
	9		
	8		
Cast Iron + Bronze Impeller	7		
All Cast Stainless Steel	6		Increasing Acidity
	5		
	4		
	3		
All Cast Stainless Steel	2		
	1		
	0		

### Submersible

<b>Case</b>	Heavy-duty, close grain, high-density cast 316 Stainless Steel. Tripod support legs on floor models.
<b>Impeller</b>	316 Stainless Steel. Semi-open or enclosed type, statically and dynamically balanced for a quiet, efficient operation.
<b>Strainer</b>	316 Stainless steel
<b>Hardware</b>	316 Stainless steel
<b>Pump Shaft</b>	316 Stainless Steel
<b>Motor Shell</b>	316 Stainless Steel with special integral cooling fins to permit trouble free operation while running in a non-submerged condition
<b>Seal Chamber</b>	316 Stainless Steel filled with clean biodegradable oil for continuous mechanical seal lubrication
<b>End Bell (Cover)</b>	316 Stainless Steel, air-filled, hermetically sealed, NEMA-6 design
<b>Elastomers</b>	Viton (fluoroelastomer) O-rings for positive sealing.
<b>Power &amp; Sensor Cable</b>	25 feet of thermoplastic (STOW) jacketed cables
<b>Bearings</b>	Permanently lubricated single-row, double sealed. Oversized to handle radial and axial loads.
<b>Seal - Tandem</b>	Two seals. The upper seal operates inside the seal chamber. The upper seal faces are carbon against ceramic. The lower seal faces are silicon carbide against silicon carbide.
<b>Moisture Sensor</b>	Designed to detect water in the motor chamber.
<b>Temperature Limiter</b>	Located in stator windings to stop motor when internal temperature exceeds insulation rating. Automatically resets when motor cools.

#### Motor

NEMA 6, submersible air-filled, hermetically sealed, Class F insulation.

Single-phase voltages are 60 Hz, 115 or 208-230 volt with automatic reset thermal and overload protection. Single-phase models include capacitors and relays mounted in a separate Type 4X FRP enclosure and are available up to 2 HP.

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

### Vertical

<b>Case</b>	Heavy-duty, close grain, high-density cast 316 Stainless Steel. Tripod support legs on floor models.
<b>Impeller</b>	316 Stainless Steel. Semi-open or enclosed type, statically and dynamically balanced for a quiet, efficient operation.
<b>Strainer</b>	316 Stainless steel
<b>Hardware</b>	316 Stainless steel
<b>Pump Shaft</b>	316 Stainless Steel, polished and ground.
<b>Thrust Bearing</b>	Grease lubricated, ball type, over-sized for increased life and capacity. Sealed to protect from dirt and moisture.
<b>Lower Bearing Housing</b>	316 Stainless Steel with graphite sleeve bearing.
<b>Intermediate Bearing Housing</b>	316 Stainless Steel with graphite sleeve bearing.
<b>Legs</b>	316 Stainless Steel
<b>Discharge Pipe</b>	316 Stainless Steel

#### Motor

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

Totally enclosed motors (TEFC) are standard on all models

### Notes

#### Explosion Proof Motor Option

**Submersible** Explosion-proof motors (UL) Listed Class 1, Division 1, Group C and D rating at 1150, 1750, and 3450 RPM

**Vertical** Explosion-proof motors (UL) Listed Class 1, Division 1, Group C and D rating at 1150, 1750, and 3450 RPM

#### Removal System Pump - 2613

Pump can be removed from the pit without disconnecting the discharge piping. Removal System Pump has a standard ANSI discharge flange. The ANSI flange bolts to the sliding bracket of the 2613 Removal System. The 2613 components are not included with the pump.

**Note: 2 inch and 3 inch Quick removals are available in 316 Stainless Steel Construction.**