



# 1-2-3 EASY GUIDE FOR PUMP & TANK SELECTION

1

### DEPTH TO THE PUMPING WATER LEVEL

**0-25 feet:** Shallow well or convertible jet pump, install in shallow (single pipe) configuration.

**25-90 feet:** Convertible jet pump, installed in deep (two pipe) configuration or deep well submersible pump.

**0-250 feet:** Deep well submersible pump.

**250+ feet:** Call The Technical Service Line: 1.888.885.9254

**"Pumping water level"** is the depth to the water while the well is being pumped. It is usually deeper than the depth to the water when the pump is not running. For a lake or cistern installation, it is the depth to the surface of the water.

**For Jet pumps,** it is the vertical distance from the pumping water level to the suction opening of the pump.

**For Submersible pumps,** it is the vertical distance from the pumping water level to the point of water usage.

New installation information is available on the **Well Driller's Report**. For replacement installations, use the equivalent style and horsepower pump, providing it was suitable when it was operational.

**NOTE:** A foot valve or check valve is required for proper operation of any system. The suction line must extend at least 5' below the pumping water level and be at least 10' above the well bottom.

### PUMP CHART

Read across the top of the chart for correct pumping water level in feet. Read down the side for correct flow required (gpm).

The letter(s) corresponds to the minimum recommended pump options. Higher horsepower models of the same categories may be substituted for jet pumps.

Flow Req. (GPM)	Pumping Water Level in Feet								
	5	15	25	50	80	100	150	200	250
3	A,D	A,D	A,D,G	D,G	D,G	G	G,H	H,I	I
4	A,D	A,D	A,D,G	D,G	E,G	G,H	G,H	H,I	I
5	A,D	A,D	A,E,G	D,G	F,G	G,H	G,H	H,I	I
6	A,D	A,D	B,E,G	D,G	G	G,H	H	I	I
7	A,D	A,D	B,E,G	F,G	G,H	G,H	H	I	I
8	A,D	A,E	C,F,G	G	G,H	G,H	H	I	I
9	A,D	A,E	C,G	G	G,H	G,H	I	I	J
10	A,D	B,E	C,G	G,H	G,H	G,H	I	I	J
11	A,E	B,E	G	G,H	H	H	I	J	J
12	A,E	C,E	G	G,H	H	H	I,J	J	J
13	B,E	C,F	G	G,H	H,I	I,J	J	J	J
14	B,E	C,F	G	I	I,J	J	J	J	J
15	B,E	C		I	J				
16	C,E	C							
17	C,E	C							

NOTE: For depths greater than 250', consult tech support

Shallow Well Jet Pumps	Convertible Jet Pumps	Deep Well Submersible Pumps
A = RJS-50-PREM ½ hp B = RJS-75-PREM ¾ hp C = RJS-100-PREM 1 hp	D = RJC-50-PREM ½ hp E = RJC-75-PREM ¾ hp F = RJC-100 1 hp	G = RL12G05 ½ hp H = RL12G07 ¾ hp I = RL12G10 1 hp J = RL12G15 1½ hp

2

### HOW MUCH WATER IS REQUIRED

The gpm (gallons per minute) of the pump must equal the total number of fixtures. Fixtures include all faucets, toilets, and water consuming appliances (do not include water treatment appliances, such as a hot water tank or water filter). Example: A house with one full bathroom (sink, tub/shower, toilet), kitchen sink, basement sink, outside faucet, washing machine, and dishwasher would require 8 gpm.

3

### MINIMUM WELL DIAMETER

**2½"** - Jet pumps in shallow well applications (depth less than 25') should be installed using 1-1/4" suction piping with a foot valve.

**4"** - Convertible jet pumps used in deep well applications (depth greater than 25') and deep well submersible pumps.

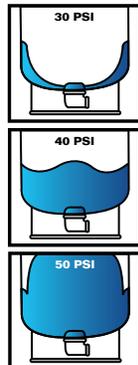


### TANK CHART

**NOTE:** Refer to Step 2 above.

The easy way to size a tank is take the gpm system requirement that you determined in Step 2, multiply by 3 and go to the next largest tank size.

**Example:** 8 gpm x 3 = 24 gallons - therefore use an RL33 tank.



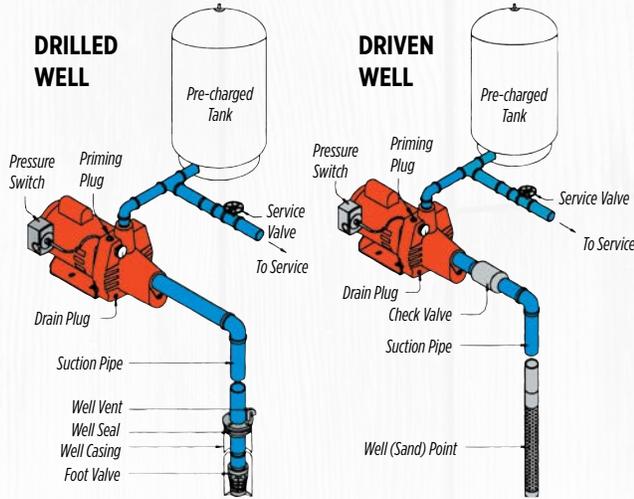
Model	Gallons	Drawdown @ 30/50 psi (gal)	Fixtures
RL2	2.1	0.7	-
RL4	4.8	1.5	-
RL8	8.5	2.6	-
RL6H	5.3	1.6	1
RL14H	14.0	4.3	4
RL16	15.9	4.9	5
RL20H	21.1	6.2	7
RL21	21.1	6.5	7
RL34	34.3	10.6	11
RL40	40.0	12.4	13
RL81	81.0	27.6	27
RL119	119.0	40.6	39



# TYPICAL INSTALLATIONS

## SHALLOW WELL JET PUMP (DOWN TO 25')

Suitable for applications where the pumping water level does not exceed 25'. Requires a single 1-1/4" suction pipe. May be used in wells 2" or larger in diameter.

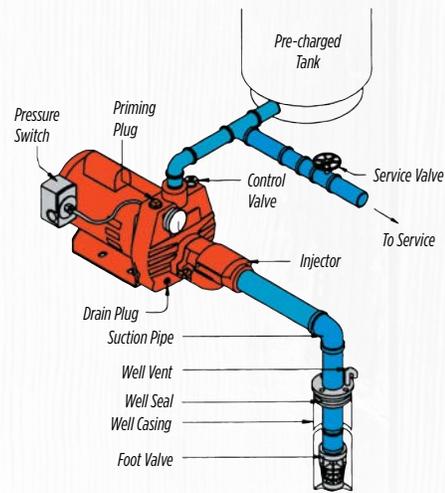


To complete installation, the following is required:

- Jet pump
- Pressure tank
- Pump-to-tank fittings
- 1-1/4" suction piping
- Foot valve or check valve

## CONVERTIBLE JET PUMP (SHALLOW WELL CONFIGURATION DOWN TO 25')

Suitable for applications where the pumping water level does not exceed 25'. Requires a single 1-1/4" suction pipe. May be used in wells 2-1/2" or larger in diameter.

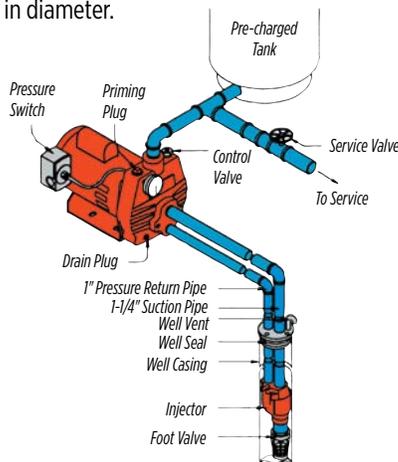


To complete installation:

- Jet pump; includes pressure switch, flow control valve, injector
- Pressure tank
- Pump-to-tank fittings
- 1-1/4" suction piping
- Foot valve or check valve (for driven well)

## CONVERTIBLE JET PUMP (DEEP WELL CONFIGURATION DOWN TO 90')

Suitable for applications where the pumping water level does not exceed 90'. Requires a double suction pipe. May be used in wells 4" or larger in diameter.

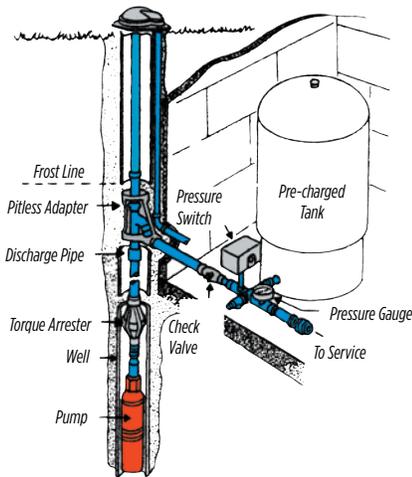


To complete installation:

- Jet pump; includes pressure switch, flow control valve, injector (installed in the well)
- Pressure tank
- Pump-to-tank fittings
- 1-1/4" suction piping and 1" pressure return piping
- Foot valve

## DEEP WELL SUBMERSIBLE PUMP (DOWN TO 250')

Suitable for applications where the pumping water level does not exceed 250'. May be used in wells 4" or larger in diameter.



To complete installation:

- Submersible pump sub-pac; includes pressure switch, pressure gauge, service tee, relief valve, sub cable, built-in check valve
- Pressure tank
- Torque arrester
- Well seal or pitless adapter
- 1" discharge piping