

# BERKELEY® PL Series

Corrosion-resistant, convertible deep well jet pumps



**Durability and corrosion resistance are built into every PL Series Pump, due to the rugged fiberglass reinforced thermoplastic pump construction. The engineered composite components are lightweight yet extremely resistant to sand and abrasive wear. The non-corrosive design and exceptional strength assure years of trouble-free operation.**

## APPLICATIONS

**Water systems and sprinkling...**  
for homes, farms and cottages.

## SPECIFICATIONS

**Pump Body and Seal Plate:** Dura-Glas®

**Impeller:** Noryl®

**Nozzle:** Noryl

**Venturi:** Noryl

**O-Ring:** Buna-N

**Clamp:** Stainless steel

**Shaft:** Stainless steel

**Diffuser:** Reinforced polypropylene with brass wear ring

**Shallow Well Jet:** Sold separately

**Pressure Switch Pre-Set:** 30–50 PSI

**Suction Ports:** Suction-over-Drive

## FEATURES

**Superior Rustproof Construction:** Pump body is Dura-Glas fiberglass reinforced thermoplastic—lightweight, rustproof and exceptionally strong. All components in contact with water are resistant to the corrosive and abrasive forces found in the most aggressive water conditions.

**Precision Diffuser:** Multi-port, reinforced polypropylene design primes faster and handles more air.

**Precision-Molded Impeller:** Precision-molded Noryl gives perfect balance and ultra-smoothness for highest performance and efficiency.

**Pressure Regulator and Gauge:** Performance-proven, simple, built-in pressure regulator is adjustable for best performance on all deep well installations. Pressure gauge included.

**Shaft Seal:** Stainless steel heat sink provides maximum cooling of the mechanical shaft seal.

**Heavy-Duty Motor:** Dustproof canopy completely encloses electrical components and provides dust, dirt and insect protection. Ventilating air cannot contaminate vital switching components. Permanently lubricated, heavy-duty ball bearings ensure smooth, quiet operation and extended motor life.

**Easy Serviceability:** PL pumps are disassembled by removing the stainless steel clamp. Piping does not have to be disturbed. Seal replacement takes only a few minutes. "Control room" motor design makes all components easily accessible.

## ORDERING INFORMATION

| CATALOG NUMBER | HP    | DESCRIPTION   | PIPE TAPPING SIZES |       |        | MOTOR VOLTAGE | APPROX. WT. LBS. |
|----------------|-------|---------------|--------------------|-------|--------|---------------|------------------|
|                |       |               | SUCT.              | DRIVE | DISCH. |               |                  |
| 5PL            | 1/2   | Deep Well Jet | 1-1/4"             | 1"    | 1"     | 115/230       | 27               |
| 7PL            | 3/4   | Deep Well Jet | 1-1/4"             | 1"    | 1"     | 115/230       | 28               |
| 10PL           | 1     | Deep Well Jet | 1-1/4"             | 1"    | 1"     | 115/230       | 30               |
| 15PL           | 1-1/2 | Deep Well Jet | 1-1/4"             | 1"    | 1"     | 115/230       | 36               |

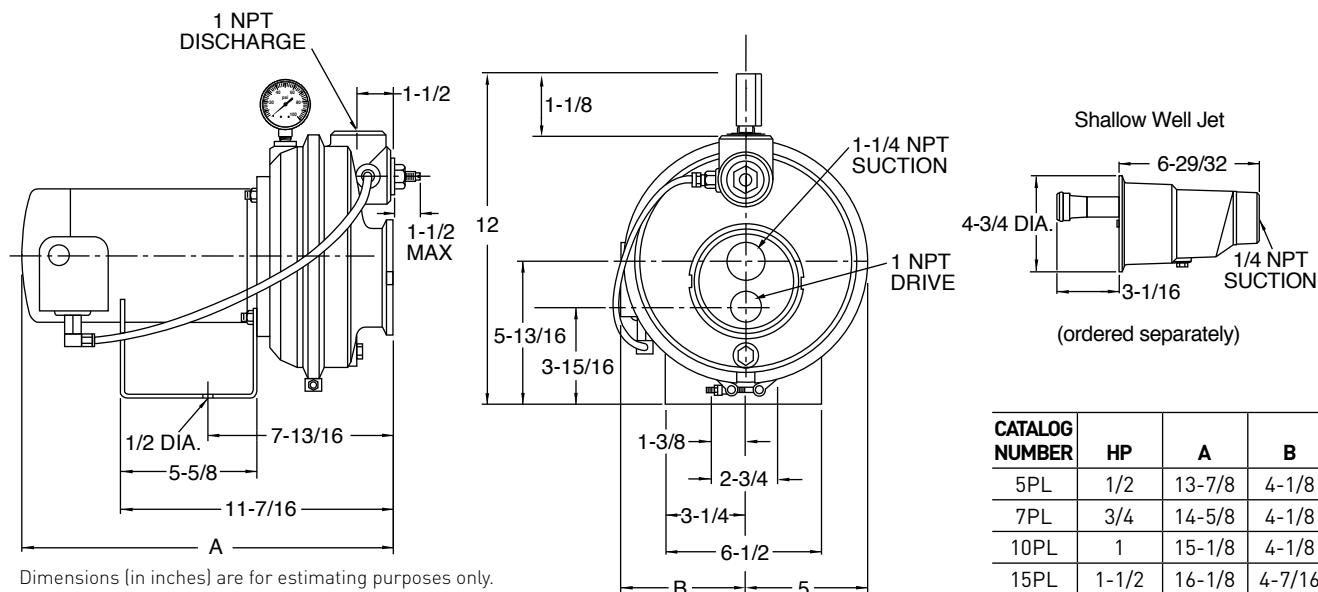
A Jet Package should be ordered with every PL Series pump.

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## OUTLINE DIMENSIONS



| CATALOG NUMBER | HP    | A      | B      |
|----------------|-------|--------|--------|
| 5PL            | 1/2   | 13-7/8 | 4-1/8  |
| 7PL            | 3/4   | 14-5/8 | 4-1/8  |
| 10PL           | 1     | 15-1/8 | 4-1/8  |
| 15PL           | 1-1/2 | 16-1/8 | 4-7/16 |

## PUMP PERFORMANCE (Capacity in gallons per minute) SHALLOW WELL

| CATALOG NUMBER | HP    | S.W. JET NUMBER | PRESS. SWITCH SETTING | DYNAMIC SUCTION LIFT FT. | DISCHARGE PRESSURE PSI |      |      |      |     | SHUT-OFF PRESSURE PSI |
|----------------|-------|-----------------|-----------------------|--------------------------|------------------------|------|------|------|-----|-----------------------|
|                |       |                 |                       |                          | 20'                    | 30'  | 40'  | 50'  | 60' |                       |
| 5PL            | 1/2   | PKG 1 - 21N     | 30-50                 | 5'                       | 9.5                    | 9.2  | 9.0  | 5.8  | 3.0 | 72                    |
|                |       |                 |                       | 10'                      | 8.2                    | 8.0  | 7.8  | 5.2  | 2.3 | 70                    |
|                |       |                 |                       | 15'                      | 7.2                    | 6.8  | 6.8  | 4.5  | 1.8 | 68                    |
|                |       |                 |                       | 20'                      | 5.7                    | 5.7  | 5.7  | 3.8  |     | 66                    |
|                |       |                 |                       | 25'                      | 4.3                    | 4.3  | 4.3  | 3.2  |     | 62                    |
| 7PL            | 3/4   | PKG 1 - 22N     | 30-50                 | 5'                       | 16.2                   | 15.8 | 15.3 | 8.7  | 1.3 | 62                    |
|                |       |                 |                       | 10'                      | 14.2                   | 14.0 | 13.8 | 7.2  |     | 60                    |
|                |       |                 |                       | 15'                      | 12.2                   | 12.0 | 11.8 | 5.3  |     | 58                    |
|                |       |                 |                       | 20'                      | 9.7                    | 9.7  | 9.2  | 3.7  |     | 55                    |
|                |       |                 |                       | 25'                      | 7.2                    | 6.8  | 6.8  |      |     | 52                    |
| 10PL           | 1     | PKG 1 - 23N     | 30-50                 | 5'                       | 21.3                   | 21.0 | 20.7 | 13.2 | 4.2 | 62                    |
|                |       |                 |                       | 10'                      | 18.8                   | 18.7 | 18.3 | 11.1 | 1.7 | 60                    |
|                |       |                 |                       | 15'                      | 16.0                   | 15.8 | 15.7 | 8.9  |     | 58                    |
|                |       |                 |                       | 20'                      | 12.8                   | 12.7 | 12.3 | 5.7  |     | 55                    |
|                |       |                 |                       | 25'                      | 8.5                    | 8.5  | 8.5  |      |     | 52                    |
| 15PL           | 1-1/2 | PKG 1 - 24N     | 30-50                 | 5'                       | 26.3                   | 26.2 | 26.2 | 21.3 | 7.7 | 64                    |
|                |       |                 |                       | 10'                      | 23.7                   | 23.3 | 23.2 | 19.2 | 3.5 | 62                    |
|                |       |                 |                       | 15'                      | 20.3                   | 20.2 | 20.0 | 16.3 |     | 60                    |
|                |       |                 |                       | 20'                      | 16.2                   | 16.0 | 15.8 | 11.2 |     | 57                    |
|                |       |                 |                       | 25'                      | 11.5                   | 11.3 | 11.3 |      |     | 54                    |

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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## PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 4" DOUBLE PIPE

| CAT. NO. | HP    | JET NO. | USES VENTURI | USES NOZZLE | PUMPING DEPTH IN FEET |     |     |     |     |     |     |      |
|----------|-------|---------|--------------|-------------|-----------------------|-----|-----|-----|-----|-----|-----|------|
|          |       |         |              |             | 30'                   | 40' | 50' | 60' | 70' | 80' | 90' | 100' |
| 5PL      | 1/2   | 4SD     | J32P-24      | J34P-41     | 4.5                   | 3.5 | 2.3 | 1.3 |     |     |     |      |
|          |       | 10SD    | N32P-67B     | J34P-44     | 9.5                   | 7.0 | 4.5 | 2.0 |     |     |     |      |
| 7PL      | 3/4   | 4SD     | J32P-24      | J34P-41     | 6.5                   | 5.1 | 4.0 | 3.0 | 1.8 | 0.8 |     |      |
| 10PL     | 1     | 4SD     | J32P-24      | J34P-41     | 8.4                   | 7.3 | 6.2 | 5.0 | 4.1 | 2.9 | 2.0 | 1.1  |
| 15PL     | 1-1/2 | 11SD    | N32P-68B     | J34P-44     | 11.5                  | 9.4 | 8.0 | 6.5 | 5.3 | 3.8 | 2.5 | 1.1  |

## PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 2" SINGLE PIPE

| CAT. NO. | HP    | JET NO. | USES VENTURI | USES NOZZLE | PUMPING DEPTH IN FEET |      |     |     |     |     |     |     |      |      |      |
|----------|-------|---------|--------------|-------------|-----------------------|------|-----|-----|-----|-----|-----|-----|------|------|------|
|          |       |         |              |             | 20'                   | 30'  | 40' | 50' | 60' | 70' | 80' | 90' | 100' | 110' | 120' |
| 5PL      | 1/2   | 13AP    | J32P-26      | J34P-44     | 5.8                   | 3.8  | 1.0 |     |     |     |     |     |      |      |      |
|          |       | 10AP    | J32P-24      | J34P-44     | 4.3                   | 3.0  | 1.6 |     |     |     |     |     |      |      |      |
|          |       | 8AP     | J32P-18      | J34P-42     | 3.8                   | 3.3  | 2.6 | 2.0 | 1.5 |     |     |     |      |      |      |
| 7PL      | 3/4   | 14AP    | J32P-32      | J34P-45     | 9.2                   | 6.7  | 4.3 |     |     |     |     |     |      |      |      |
|          |       | 10AP    | J32P-24      | J34P-44     | 6.2                   | 4.8  | 3.7 | 2.3 | 1.2 |     |     |     |      |      |      |
|          |       | 8AP     | J32P-18      | J34P-42     | 4.1                   | 3.7  | 3.1 | 2.6 | 2.1 | 1.6 | 1.2 | 0.8 |      |      |      |
| 10PL     | 1     | 15AP    | J32P-33      | J34P-41     | 12.3                  | 9.2  | 5.7 |     |     |     |     |     |      |      |      |
|          |       | 9AP     | J32P-29      | J34P-44     | 10.6                  | 7.4  | 4.7 | 2.2 |     |     |     |     |      |      |      |
|          |       | 8AP     | J32P-18      | J34P-42     | 5.0                   | 4.7  | 4.2 | 3.8 | 3.3 | 2.7 | 2.3 | 1.8 | 1.3  |      |      |
| 15PL     | 1-1/2 | 16AP    | J32P-38      | J34P-45     | 15.3                  | 11.8 | 8.5 | 5.2 |     |     |     |     |      |      |      |
|          |       | 9AP     | J32P-29      | J34P-44     | –                     | 12.3 | 9.3 | 6.4 | 4.0 |     |     |     |      |      |      |
|          |       | 8AP     | J32P-18      | J34P-42     | –                     | 5.7  | 5.0 | 4.6 | 4.2 | 3.7 | 3.3 | 2.8 | 2.4  | 1.8  | 1.3  |

## DEEP WELL (40 PSI) 3" SINGLE PIPE

|      |       |      |         |         |      |      |     |     |     |     |     |     |     |     |     |
|------|-------|------|---------|---------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5PL  | 1/2   | 25CP | J32P-26 | J34P-44 | 5.8  | 4.0  | 2.1 |     |     |     |     |     |     |     |     |
|      |       | 19CP | J32P-24 | J34P-41 | –    | 4.5  | 3.5 | 2.3 | 1.3 |     |     |     |     |     |     |
| 7PL  | 3/4   | 11CP | J32P-32 | J34P-45 | 9.5  | 7.0  | 4.5 | 2.0 |     |     |     |     |     |     |     |
|      |       | 19CP | J32P-24 | J34P-41 | –    | 6.5  | 5.1 | 4.0 | 3.0 | 1.8 | 0.8 |     |     |     |     |
| 10PL | 1     | 26CP | J32P-33 | J34P-41 | 13.0 | 9.8  | 6.0 |     |     |     |     |     |     |     |     |
|      |       | 17CP | J32P-29 | J34P-44 | –    | 11.5 | 8.0 | 5.2 | 2.6 |     |     |     |     |     |     |
|      |       | 19CP | J32P-24 | J34P-41 | –    | 8.4  | 7.3 | 6.2 | 5.0 | 4.1 | 2.9 | 2.0 | 1.1 |     |     |
| 15PL | 1-1/2 | 10CP | J32P-38 | J34P-45 | 16.6 | 13.3 | 9.5 | 6.0 |     |     |     |     |     |     |     |
|      |       | 15CP | J32P-22 | J34P-43 | –    | 8.6  | 7.9 | 6.9 | 6.2 | 5.4 | 4.4 | 3.2 | 2.2 | 1.5 | 0.9 |

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.



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