# VERTICAL MULTI-STAGE DEEP WELL JET PUMPS

## MVPH SERIES



**The MVPH Series Vertical Jet Pumps are the industry standard deep well jet pumps for over-the-well bolt-on installations. They include the pre-plumbed external automatic regulator, pressure gauge, and pressure switch. A complete line of casing adapters for 4" double pipe, 2" or 3" single pipe jet packages can be purchased seperately.**

### APPLICATIONS

Supply water systems and sprinkling systems for homes, farms, and cottages.

### SPECIFICATIONS

- **Body:** Rugged cast iron.
- **Pump and Motor Shaft:** 416 stainless steel.
- **Impellers:** Noryl®.
- **Diffuser:** Close-grained cast iron.

### FEATURES

- **Automatic Pressure Regulator:** Faster acting, quieter design eliminates hunting for correct drive pressure. Stem and guide are precisely molded to assure efficient, trouble free performance on all deep wells.
- **Quality Construction:** Precision machined, close grained cast iron pump body and base are specially treated to resist corrosion.
- **Noryl® Impellers:** Precision molded for perfect balance and ultra smooth for highest performance and efficiency.
- **Pressure Switch:** High quality. Differential and cut-in/ cut-out pressure settings are adjustable.
- **Motor Windings:** Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.
- **Mechanical Shaft Seal:** Precision lapped and highly polished carbon ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.
- **Dust Proof Cover:** All electrical components are protected from dirt, dust and insects by a dust proof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.
- **Balanced Rotor:** The rotor is die cast under high pressures for uniform performance and greater efficiency, and also dynamically balanced.
- **Heavy-Duty Ball Bearings:** Permanently lubricated sealed bearings are extensively tested to ensure extended life and smooth, quiet operation.
- **Pump and Motor Shaft:** One-piece threaded shaft for positive impeller drive and alignment. Shaft is stainless steel for maximum corrosion resistance.

In order to provide the best products possible, specifications are subject to change.

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# VERTICAL MULTI-STAGE DEEP WELL JET PUMPS MVPH SERIES

## ORDERING INFORMATION

### PUMPS

| CATALOG NUMBER | HP | DESCRIPTION | MAX. PRESS. REG. SETTING | PIPE TAPPING SIZES | | | MOTOR VOLTAGE | APPROX. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| | | | | SUCTION | DRIVE | DISCHARGE | | |
| MVPH-100 | 1 | Base Mounted Pump | 60 PSI | 1-1/4" | 1-1/4" | 1" | 115/230 | 73 |
| MVPH-150 | 1-1/2 | Base Mounted Pump | 85 PSI | 1-1/4" | 1-1/4" | 1" | 230 | 120 |
| MVPH-200 | 2 | Base Mounted Pump | 95 PSI | 1-1/4" | 1-1/4" | 1" | 230 | 125 |

### ADAPTER FLANGE

| CATALOG NUMBER | DESCRIPTION | USED WITH |
|---|---|---|
| J216-27 | 1-1/4" x 1-1/4" | 4" double pipe; 1, 1-1/2 and 2 HP |

Order pump from ordering information table above. A Jet Package (see table below) should be ordered with every Series MVPH Pump. All installations require an appropriate size adapter flange or casing adapter if bolt-on feature is desired.

### JET PACKAGES (A jet package should be ordered with every convertible or deep well jet pump.)

| PACKAGE NUMBER | DESCRIPTION |
|---|---|
| PKG 1-23SD | For shallow well and deep well applications and for all 4" double pipe applications |
| PKG 2A-23SD | For shallow well applications and for all 4" double pipe applications with three venturis |
| PKG 1-12AP* and PKG 1-12APB* | Jet with built-in check valve; for all 2" single pipe deep well applications |
| PKG 1-18AP* and PKG 1-8APB* | Jet with built-in check valve; for all 2" single pipe deep well applications |
| PKG 1-23CP*, PKG 1-22CP*,PKG 1-17CP*, PKG 1-16CP* | Jet with built-in check valve; for all 3" single pipe deep well applications |

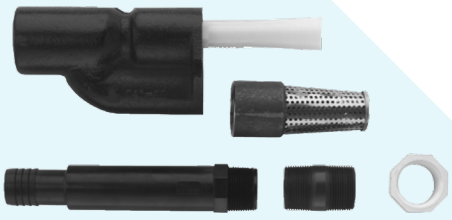
*Suction Tapping: 1-1/4" Male and 1" Female



**Pkg 1- 23SD Shallow Well and Deep Well**



**Pkg 2A – Accessory Package**

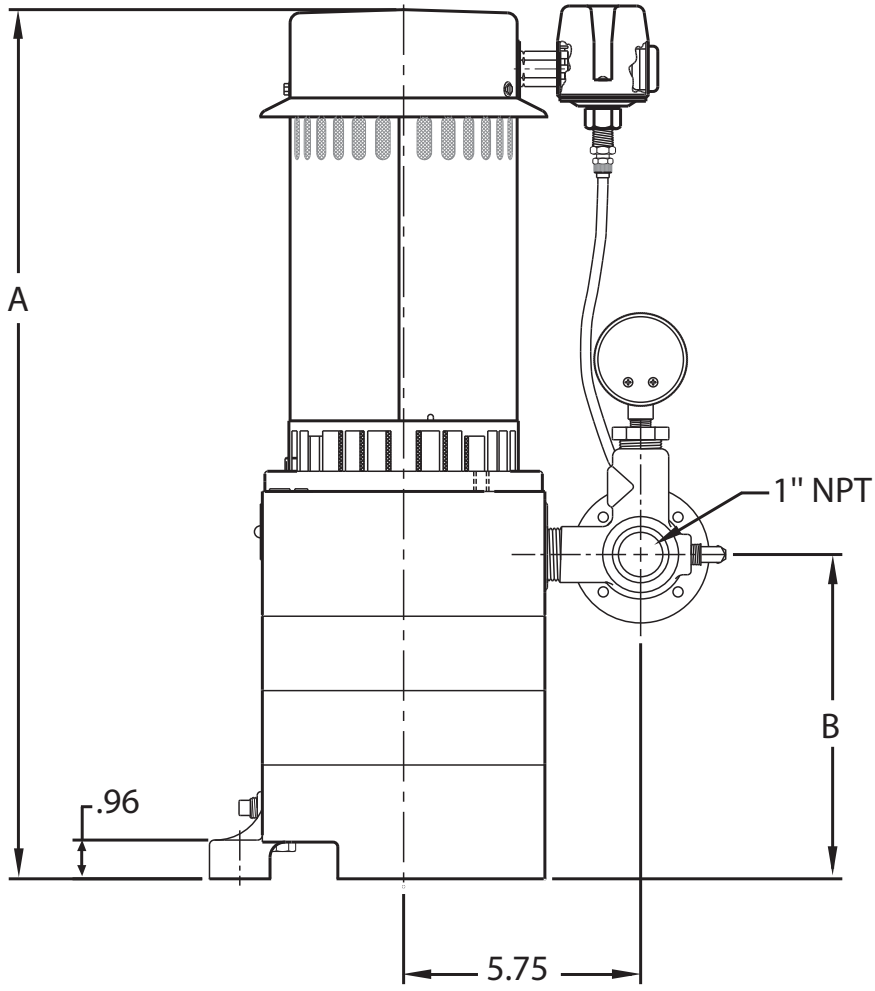


**Pkg 2A- 23SD – Double Pipe**



**Pkg 1- ☐☐ AP**
**2" Single Pipe Cast Iron**
**or**
**Pkg 1- ☐☐ APB**
**2" Single Pipe Brass**
**or**
**Pkg 1- ☐☐ CP**
**3" Single Pipe**

## OUTLINE DIMENSIONS




| CAT. NO. | A | B |
|---|---|---|
| MVPH-100 | 18-3/8 | 5-5/8 |
| MVPH-150 | 20-7/16 | 7-1/2 |
| MVPH-200 | 20-15/16 | 7-1/2 |

Dimensions (in inches) are for estimating purposes only.

## PUMP PERFORMANCE

### CAPACITY IN GALLON S PER MINUTE

| CAT. NO. | HP | JET NO. | USES VENTURI | USES NOZZLE | PUMPING DEPTH IN FEET | | | | | | | | | | MAX. PUMP SHUT OFF PRESS. (PSI) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 30′ | 40′ | 50′ | 60′ | 70′ | 80′ | 90′ | 100′ | 110′ | 120′ | JET AT MIN. DEPTH | JET AT MAX. DEPTH |
| **4″ DOUBLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 23SD | J32P-24 | J34P-42 | 12.1 | 11.7 | 11.6 | 11.1 | 10.2 | 9.2 | 7.8 | 6.4 | 5.0 | 4.0 | 120 | 76 |
| | | 15SD | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 | 200 | 97 |
| MVPH-150 | 1-1/2 | 23SD | J32P-24 | J34P-42 | 12.2 | 12.2 | 12.2 | 12.2 | 11.7 | 11.3 | 10.7 | 9.9 | 9.0 | 8.3 | 164 | 95 |
| | | 15SD | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.3 | 5.2 | 5.1 | 314 | 172 |
| MVPH-200 | 2 | 23SD | J32P-24 | J34P-42 | 12.2 | 12.2 | 12.2 | 12.2 | 11.8 | 11.3 | 11.2 | 11.1 | 11.0 | 10.0 | 195 | 110 |
| | | 23SD | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.3 | 5.2 | 5.1 | 314 | 172 |
| **2″ SINGLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 12AP | J32P-24 | J34P-42 | 12.1 | 11.3 | 11.2 | 10.0 | 8.8 | 7.6 | 6.5 | 5.6 | 3.3 | 1.8 | 118 | 80 |
| | | 8AP | J32P-18 | J34P-42 | 5.5 | 5.5 | 6.3 | 5.3 | 5.2 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 198 | 126 |
| MVPH-150 | 1-1/2 | 12AP | J32P-24 | J34P-42 | 12.2 | 12.0 | 12.0 | 12.0 | 11.5 | 11.2 | 9.7 | 8.3 | 6.8 | 5.5 | 162 | 110 |
| | | 8AP | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.2 | 5.1 | 5.0 | 5.0 | 266 | 158 |
| MVPH-200 | 2 | 12AP | J32P-24 | J34P-42 | 12.2 | 12.0 | 12.0 | 12.0 | 11.7 | 11.2 | 11.0 | 10.3 | 8.3 | 7.5 | 193 | 139 |
| | | 8AP | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.2 | 5.2 | 5.1 | 5.1 | 312 | 192 |
| **3″ SINGLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 23CP | J32P-24 | J34P-42 | 12.1 | 11.7 | 11.6 | 11.1 | 10.2 | 9.2 | 7.8 | 6.4 | 5.0 | 4.0 | 120 | 76 |
| | | 16CP | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 | 200 | 97 |
| MVPH-150 | 1-1/2 | 23CP | J32P-24 | J34P-42 | 12.2 | 12.2 | 12.2 | 12.2 | 11.7 | 11.3 | 10.7 | 9.9 | 9.0 | 8.3 | 164 | 95 |
| | | 22CP | J32P-20 | J34P-42 | 7.7 | 7.7 | 7.7 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 210 | 110 |
| | | 16CP | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.2 | 5.2 | 5.1 | 2668 | 132 |
| MVPH-200 | 2 | 23CP | J32P-24 | J34P-42 | 12.2 | 12.2 | 12.2 | 12.2 | 11.8 | 11.3 | 11.2 | 11.1 | 11.0 | 10.0 | 1195 | 110 |
| | | 22CP | J32P-20 | J34P-42 | 7.7 | 7.7 | 7.7 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 250 | 128 |
| | | 16CP | J32P-18 | J34P-42 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.3 | 5.3 | 5.2 | 5.1 | 314 | 172 |

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.

## PUMP PERFORMANCE

### CAPACITY IN GALLON S PER MINUTE

| CAT. NO. | HP | JET NO. | USES VENTURI | USES NOZZLE | PUMPING DEPTH IN FEET | | | | | | | | | | MAX. PUMP SHUT OFF PRESS. (PSI) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 130′ | 140′ | 180′ | 200′ | 220′ | 240′ | 260′ | 280′ | 300′ | 320′ | JET AT MIN. DEPTH | JET AT MAX. DEPTH |
| **4″ DOUBLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 23SD | J32P-24 | J34P-42 | 3.0 | | | | | | | | | | 120 | 76 |
| | | 15SD | J32P-18 | J34P-42 | 4.8 | 4.5 | 3.3 | 2.7 | 2.0 | 1.3 | 1.0 | | | | 200 | 97 |
| MVPH-150 | 1-1/2 | 23SD | J32P-24 | J34P-42 | 7.0 | 4.0 | 1.3 | | | | | | | | 164 | 95 |
| | | 15SD | J32P-18 | J34P-42 | 5.1 | 5.0 | 4.8 | 4.7 | 4.5 | 4.3 | 4.0 | 3.3 | 2.7 | | 314 | 172 |
| MVPH-200 | 2 | 23SD | J32P-24 | J34P-42 | 8.7 | 7.0 | 4.0 | 2.0 | | | | | | | 195 | 110 |
| | | 23SD | J32P-18 | J34P-42 | 5.1 | 5.0 | 5.0 | 4.8 | 4.8 | 4.5 | 4.3 | 4.0 | 3.3 | 2.7 | 314 | 172 |
| **2″ SINGLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 12AP | J32P-24 | J34P-42 | | | | | | | | | | | 118 | 80 |
| | | 8AP | J32P-18 | J34P-42 | 4.5 | 4.2 | 2.0 | | | | | | | | 198 | 126 |
| MVPH-150 | 1-1/2 | 12AP | J32P-24 | J34P-42 | 4.2 | 3.3 | | | | | | | | | 162 | 110 |
| | | 8AP | J32P-18 | J34P-42 | 5.0 | 4.8 | 4.3 | 3.5 | 2.7 | 1.7 | | | | | 266 | 158 |
| MVPH-200 | 2 | 12AP | J32P-24 | J34P-42 | 6.3 | 5.3 | | | | | | | | | 193 | 139 |
| | | 8AP | J32P-18 | J34P-42 | 5.0 | 4.8 | 4.7 | 4.3 | 3.7 | 3.2 | 2.5 | | | | 312 | 192 |
| **3″ SINGLE PIPE – 40 PSI** | | | | | | | | | | | | | | | | |
| MVPH-100 | 1 | 23CP | J32P-24 | J34P-42 | 3.0 | | | | | | | | | | 120 | 76 |
| | | 16CP | J32P-18 | J34P-42 | 4.8 | 4.5 | 3.3 | 2.7 | 2.0 | 1.3 | 1.0 | | | | 200 | 97 |
| MVPH-150 | 1-1/2 | 23CP | J32P-24 | J34P-42 | 7.0 | 4.0 | 1.3 | | | | | | | | 164 | 95 |
| | | 22CP | J32P-20 | J34P-42 | 7.0 | 7.0 | 4.3 | 4.0 | 3.2 | 2.2 | | | | | 210 | 110 |
| | | 16CP | J32P-18 | J34P-42 | 5.0 | 5.0 | 4.9 | 4.7 | 4.0 | 3.8 | 3.0 | 2.3 | 1.7 | | 2668 | 132 |
| MVPH-200 | 2 | 23CP | J32P-24 | J34P-42 | 8.7 | 7.0 | 4.0 | 2.0 | | | | | | | 1195 | 110 |
| | | 22CP | J32P-20 | J34P-42 | 7.0 | 7.0 | 5.3 | 5.0 | 4.7 | 4.0 | 3.0 | 2.2 | | | 250 | 128 |
| | | 16CP | J32P-18 | J34P-42 | 5.1 | 5.0 | 5.0 | 4.8 | 4.7 | 4.5 | 4.3 | 4.0 | 3.3 | 2.7 | 314 | 172 |

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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