STA-RITE®
4" SUBMERSIBLE PUMPS
1/2 HP to 1-1/2 HP

Don't get caught with CURVE ENVY – See what's NEW inside.
STA-RITE® 4" SUBMERSIBLE PUMPS

The Signature 2000® pump design has been delivering dependable performance since 1990. Our floating stage design continues to handle even the most aggressive water with our SignaSeal™ system that breaks down debris and reduces locking. Now we’re going further by upstaging and adding additional features to the pumps you’ve grown to trust and rely on every day!

So what does this mean for you?

Better performance
With increased staging across much of our 1/2-1 1/2HP pumps, you’ll enjoy even greater performance receiving more depth and/or more flow than before with heads to 800 feet and flows up to 27 gallons.

Avoid Curve Envy
Our increased staging also gives you more than competitive pumps at like horsepower and rated flow. We’ve even developed a tool to show you how our pumps compare to the top competitors. Visit www.pumps.com/curveenvy.html to compare your pump!

Reliability
We continue to strive towards perfecting our pumps and we’ve taken the next step with our JP series by redesigning the discharge to make it even stronger as well as adding a NEW spring-loaded check valve. All in an effort to provide you with the most reliable pump in the market.

PRODUCT IMPROVEMENTS

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<thead>
<tr>
<th>HS SERIES</th>
<th>JP SERIES</th>
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<tbody>
<tr>
<td>Redesigned, heavy-duty discharge</td>
<td>Upgraded spring-loaded check valve — NEW! on JP Series</td>
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<tr>
<td>Upgraded spring-loaded check valve — NEW! on JP Series</td>
<td>Maintenance-free shell construction</td>
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<td>Serviceable threaded shell</td>
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<tr>
<td>Maintenance-free shell construction</td>
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<td>Additional staging for increased performance</td>
<td>Strengthened stainless steel cable guard</td>
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<td>Durable, rust-free cable guard</td>
<td>Heavy-duty 300-grade stainless steel cable guard</td>
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<tr>
<td>Heavy-duty 300-grade stainless steel</td>
<td>Heavy-duty 300-grade stainless steel suction with removable screen for easy cleaning</td>
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<tr>
<td>Securely integrated suction</td>
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APPLICATIONS

Water Supply: for residential, industrial, commercial, multiple housing and farm use.

FEATURES (HS & JP)

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge Bearing: Self-lubricating Nylatron bearing resists wear from sand.

Shaft: Positive drive from 7/16” hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft, which couples to all standard NEMA motors.

Shell: 300-grade, heavy-walled corrosion-resistant stainless steel.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Durable internal spring-loaded check valve — NEW! on JP Series

Pentek® XE Series Motor:
Our powerful, encapsulated submersible 2 and 3 wire motors drive all of our Sta-Rite pumps. These powerful motors have been proven over the years with over a million motors installed across the world!

SPECIFICATIONS

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<th>SUCTION/DISCHARGE</th>
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### PUMP PERFORMANCE

![Pump Performance Graph](image-url)
# STA-RITE® 4” SUBMERSIBLE PUMPS

## PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

### 5 GALLONS PER MINUTE

| HP   | PSI | 0  | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 |
|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1/2  |     | 7.6| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
|      |     | 7.3| 7.1| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 3/4  |     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
|      |     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1    |     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
|      |     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1 1/2|     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
|      |     | 7.4| 7.2| 7.0| 6.8| 6.6| 6.4| 6.2| 6.0| 5.7| 5.5| 5.2| 5.0| 4.8| 4.3| 3.9| 3.4| 2.7| 1.8| -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

**Pumping Depth in Feet**

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### PUMP PERFORMANCE

![Graph showing GPM vs. TDH for different HP ratings](image)

- **1-1/2 HP**
- **1 HP**
- **3/4 HP**
- **1/2 HP**
## Pump Performance

### 7 Gallons Per Minute

| HP | PSI | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
|----|-----|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3/4 | 0   | -  | -  | 10.9| 10.9| 10.7| 10.6| 10.4| 10.3| 10.2| 10.2| 10.1| 10.1| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 20  | -  | 10.9| 10.9| 10.6| 10.4| 10.2| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 30  | -  | 10.9| 10.6| 10.4| 10.2| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 40  | -  | 10.9| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 50  | -  | 10.9| 10.3| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
| 1   | 0   | -  | -  | 11.0| 10.9| 10.7| 10.5| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 20  | -  | 10.0| 10.6| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 30  | -  | 10.0| 10.6| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 40  | -  | 10.0| 10.6| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 50  | -  | 10.0| 10.6| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
| 1 1/2 | 0   | -  | -  | 11.0| 10.9| 10.7| 10.5| 10.3| 10.1| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 20  | -  | 10.0| 10.7| 10.4| 10.2| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 30  | -  | 10.0| 10.7| 10.4| 10.2| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 40  | -  | 10.0| 10.7| 10.4| 10.2| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|
|     | 50  | -  | 10.0| 10.7| 10.4| 10.2| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0| 10.0|

**Pumping Depth in Feet**

**Shut-Off Head**

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**HP:** Horsepower, **PSI:** Pressure, **Feet:** Depth in feet, **PSI:** Pressure in pounds per square inch.
**STA-RITE® 4" SUBMERSIBLE PUMPS**

### ORDERING INFORMATION

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### PUMP PERFORMANCE

![Pump Performance Graph](image-url)

**10 GPM**
### PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

#### 10 GALLONS PER MINUTE

| HP   | PSI  | 0    | 20   | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 260  | 280  | 300  | 320  | 340  | 360  | 380  | 400  | 450  | 500  | 550  | Feet | PSI  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1/2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 40   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3/4  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 40   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 40   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1 1/2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
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|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1 1/2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

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**Shut-off Head**

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**Note:** This table provides the capacity in gallons per minute for STA-RITE® 4" submersible pumps at various pumping depths in feet and shut-off heads in PSI.
**ORDERING INFORMATION**

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**PUMP PERFORMANCE**

![Graph showing pump performance with GPM on the x-axis and TDH (ft) on the y-axis.](image-url)
### PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

#### 15 GALLONS PER MINUTE

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Pumping Depth in Feet

| 0  | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0  | -   | -   | -   | 20.2| 19.2| 18.2| 17.1| 15.9| 14.7| 13.3| 11.7| 9.8 | 7.5 | 3.6 | -   | -   | -   | -   | -   | -   |
| 20 | 20.8| 19.9| 18.9| 17.9| 16.7| 15.5| 14.2| 12.8| 11.2| 9.2  | 6.6 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 30 | 19.7| 18.7| 17.7| 16.6| 15.4| 14.0| 12.6| 10.9| 8.8  | 6.1 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 40 | 18.6| 17.5| 16.4| 15.2| 13.8| 12.3| 10.6| 8.5  | 5.5 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 50 | 17.3| 16.2| 15.0| 13.6| 12.1| 10.3| 8.1 | 4.8  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 60 | 16.0| 14.8| 13.4| 11.8| 10.0| 7.7 | 4.0 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 70 | 14.5| 13.1| 11.5| 9.7 | 7.3 | 3.0 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 80 | 12.9| 11.3| 9.3 | 6.8 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1  | 0   | -   | -   | -   | 20.4| 19.6| 18.7| 17.8| 16.9| 15.9| 14.8| 13.6| 12.3| 10.9| 9.3 | 7.3 | 4.5 | -   | -   | -   | -   |
| 20 | 20.9| 21.1| 20.3| 19.9| 18.1| 16.8| 15.7| 14.4| 13.0| 11.7| 10.7| 9.6 | 7.0 | 4.4 | -   | -   | -   | -   | -   | -   | -   |
| 30 | 20.0| 19.2| 18.3| 17.4| 16.4| 15.4| 14.3| 13.0| 11.7| 10.2| 9.1 | 7.7 | 5.3 | 3.7 | -   | -   | -   | -   | -   | -   | -   |
| 40 | 19.1| 18.2| 17.3| 16.3| 15.2| 14.1| 12.8| 11.5| 9.9 | 8.1 | 6.1 | 4.0 | 2.7 | 1.9 | -   | -   | -   | -   | -   | -   | -   |
| 50 | 18.9| 18.0| 17.1| 16.1| 15.0| 13.9| 12.6| 11.3| 9.7 | 8.0 | 6.3 | 4.6 | 3.2 | 2.2 | -   | -   | -   | -   | -   | -   | -   |
| 60 | 17.9| 17.0| 15.9| 14.9| 13.7| 12.4| 11.0| 9.4 | 7.5 | 5.8 | 4.3 | 3.0 | 2.4 | 1.9 | -   | -   | -   | -   | -   | -   | -   |
| 70 | 16.8| 15.8| 14.7| 13.5| 12.2| 10.8| 9.1 | 7.1 | 4.2 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 80 | 15.6| 14.5| 13.3| 12.0| 10.6| 8.8 | 6.7 | 3.6 | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

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### PUMP PERFORMANCE

![Graph showing pump performance](image-url)
### STA-RITE® 4" SUBMERSIBLE PUMPS

#### 20 GALLONS PER MINUTE

**PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)**

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**HP**
- 0: 3/4 HP
- 1: 1 HP
- 1 1/2: 1 1/2 HP

**PSI**
- 20 GPM
- 225 PSI Shut-Off Head
- 97 PSI

**Pumping Depth in Feet**
- Range from 0 to 400 feet

**Shut-Off Head**
- psi values are provided for specific depths

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**Related Keywords**
- STA-RITE®
- 4" Submersible Pumps
- Pump Performance
- Capacity in Gallons per Minute
- Pumps and Water Systems
- Pentair
OUTLINE DIMENSIONS: 10, 15 AND 20 GPM

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For lengths, refer to Ordering Information tables.
Dimensions [in inches] are for estimating purposes only.