Delivering More.

Not All Pumps Are Built the Same

7 Sizes: E10HO, J11LO, J11MO, J11HO, H12HO, J12XHO, H14MO
Efficiency To 86%
Cast Iron Bowls
Bronze Impellers
Bowl Assemblies Turned To Fit PVC Casing
Heavy Duty Castings For Longer Life
Oil or Water Lube Construction
**PERFORMANCE BASED ON PUMPING CLEAR, FRESH NON-AERATED WATER AT 85° F. MAXIMUM.**

<table>
<thead>
<tr>
<th>NUMBER OF STAGES</th>
<th>DESIGN</th>
<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>EFF.</th>
</tr>
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<tbody>
<tr>
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<table>
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<tr>
<th>NUMBER OF POINTS</th>
<th>-3</th>
<th>-2</th>
<th>-1</th>
<th>0</th>
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</thead>
</table>

1 STG. ( ) STG.

**PUMP DATA**

- **IMPELLER**: SEMI-OPEN
- **BOWL CONNECTION**: FLANGED
- **NO. OF VANES**: 7
- **DISCHARGE SIZE**: 8"*
- **THRUST CONSTANT**: 10.7
- **SUCTION SIZE**: 8"*
- **LATERAL**: 0.75
- **STD. TUBE**: 2.50"*
- **EYE AREA IN**: 26.50
- **WR**: 0.59 LB. FT. 2
- **SHAFT DIA.**: 1.500
- **ONE STG. WT. LB.**: 175
- **ADD STG. WT. LB.**: 70

*THIS DIMENSION TO BE USED WITH NPSHR. PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES. PERFORMANCE BASED ON CAST IRON ENAMELED BOWLS AND BRONZE IMPELLERS.*
PERFORMANCE BASED ON PUMPING CLEAR, FRESH NON-AERATED WATER AT 85°F. MAXIMUM.

<table>
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<tr>
<th>NUMBER</th>
<th>DESIGN</th>
<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>EFF.</th>
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<td>POINTS</td>
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</table>

1 STG. ( ) STG.

PUMP DATA

IMPELLER: SEMI-OPEN
BOWL CONNECTION: FLANGED
NO. OF VANES: 6
DISCHARGE SIZE: 8"
THRUST CONSTANT: 7.8
SUCTION SIZE: 8"
LATERAL: 1.00
STD. TUBE: 2.5", 3.0"
EYE AREA IN: 15.9
WR²: 1.02 LB FT²
SHAFT DIA: 1.6875
C/I STG: 183
ADD STG: 91

*THIS DIMENSION TO BE USED WITH NPSHR. PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES. PERFORMANCE BASED ON CAST IRON ENAMELED BOWLS AND BRONZE IMPELLERS.
### PERFORMANCE BASED ON PUMPING CLEAR, FRESH NON-AERATED WATER AT 85°F. MAXIMUM.

<table>
<thead>
<tr>
<th>CHANGE EFFICIENCY AS FOLLOWS</th>
<th>NUMBER OF STAGES</th>
<th>DESIGN</th>
<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>EFF.</th>
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<td>NUMBER OF POINTS</td>
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1 STG. ( ) STG.

**TOTAL HEAD IN FEET**

**U.S. G.P.M.**

**LITERS/SEC.**

<table>
<thead>
<tr>
<th>DIMENSIONS IN INCHES</th>
<th>A</th>
<th>B</th>
<th>CADD/STG</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H+</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
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<td>11.25</td>
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<td>9.875</td>
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<td>10.75</td>
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**PUMP DATA**

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<thead>
<tr>
<th>IMPELLER:</th>
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<tr>
<td>NO. OF VANES:</td>
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<td>THRUST CONSTANT:</td>
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<td>LATERAL:</td>
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<tr>
<td>STD. TUBE:</td>
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<tr>
<td>EYE AREA IN:</td>
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</tr>
<tr>
<td>WR²:</td>
<td>1.02 LB.FT²</td>
</tr>
<tr>
<td>SHAFT DIA:</td>
<td>1.6879</td>
</tr>
<tr>
<td>ONE STG, WT:LB:</td>
<td>183</td>
</tr>
<tr>
<td>ADD STG, WT:LB:</td>
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</tr>
<tr>
<td>*MIN. SUBMERGENCE</td>
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</table>

*THIS DIMENSION TO BE USED WITH NPISHR. PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES. PERFORMANCE BASED ON CAST IRON ENAMELED BOWLS AND BRONZE IMPELLERS.*
**Performance Based On**

Pumping Clear, Fresh Non-Aerated Water At 85° F. Maximum.

<table>
<thead>
<tr>
<th>Number of Stages</th>
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<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>Eff.</th>
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<tbody>
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<td>4</td>
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</tbody>
</table>

Number of Points:

-4 -1 0

1 STG. ( ) STG.

**Pump Data**

- Impeller: SEMI-OPEN
- Bowl Connection: FLANGED
- No. of Vanes: 8
- Discharge Size: 8"
- Thrust Constant: 7.8
- Suction Size: 8"
- Laterale: 1.00
- Standard Tube: 2.5", 3.0"
- Eye Area In: 15.9
- WR²: 1.02 Lb.Ft²
- Shaft Dia: 1.6875
- One Stg.: 183
- Add Stg.: 91

*This dimension to be used with NPSHR. Pump installation and system must satisfy both values. Performance based on cast iron enameled bowls and bronze impellers.*

**Notes:**

- MIN. SUBMERGENCE

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*CVJ15HDXP6CY*
PERFORMANCE BASED ON PUMPING CLEAR, FRESH NON-AERATED WATER AT 85°F. MAXIMUM.

<table>
<thead>
<tr>
<th>CHANGE EFFICIENCY AS FOLLOWS</th>
<th>NUMBER OF STAGES</th>
<th>DESIGN</th>
<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>EFF.</th>
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</table>

1 STG. ( ) STG.

PUMP DATA
IMPELLER: SEMI-OPEN  BOWL CONNECTION: FLANGED
NO. OF VANES: 7  DISCHARGE SIZE: 8", 10"
THRUST CONSTANT: 15.4  SUCTION SIZE: 10"
LATERAL: 1"  STD. TUBE: 2.5", 3"
EYE AREA IN: 33.4  WR: 2.32 LB/FT²
SHAFT DIA: 1.6875  ADD STG: 375  ADD LT: 150

*THIS DIMENSION TO BE USED WITH NPSHR. PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES. PERFORMANCE BASED ON CAST IRON ENAMELED BOWLS AND BRONZE IMPPELLERS.

* MIN. SUBMERSION

3/17/09
CVH12HO3400Y
PERFORMANCE BASED ON PUMPING CLEAR, FRESH NON-AERATED WATER AT 85°F, MAXIMUM.

CHANGE EFFICIENCY AS FOLLOWS

<table>
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<tr>
<th>NUMBER OF STAGES</th>
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<th>2</th>
<th>3</th>
<th>5</th>
<th>DESIGN</th>
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<th>TDH</th>
<th>BPH</th>
<th>EFF.</th>
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1 STG. ( ) STG.

U.S. G.P.M.

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
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<td>N/A</td>
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PUMP DATA

<table>
<thead>
<tr>
<th>IMPELLER:</th>
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<th>BOWL CONNECTION:</th>
<th>FLANGED</th>
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</thead>
<tbody>
<tr>
<td>NO. OF VANE:</td>
<td>6</td>
<td>DISCHARGE SIZE:</td>
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<td>THRUST CONSTANT:</td>
<td>15.6</td>
<td>SUCTION SIZE:</td>
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<tr>
<td>LATERAL:</td>
<td>1.375</td>
<td>STD. TUBE:</td>
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<td>EYE AREA IN:</td>
<td>36.2</td>
<td>WR²:</td>
<td>2.71 LB.FT²</td>
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<tr>
<td>SHAFT DIA:</td>
<td>1.9375</td>
<td>ONE STG:</td>
<td>395</td>
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</tbody>
</table>

* THIS DIMENSION TO BE USED WITH NPSHR. PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES. PERFORMANCE BASED ON CAST IRON ENAMELED BOWLS AND BRONZE IMPPELLERS.
### Performance Data

**Performance Based On:**
- Pumping Clear, Fresh Non-Aerated Water at 85°F Maximum.

<table>
<thead>
<tr>
<th>Change Efficiency As Follows</th>
<th>Number of Stages</th>
<th>Design</th>
<th>G.P.M.</th>
<th>TDH</th>
<th>BPH</th>
<th>Eff.</th>
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<tbody>
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</table>

### Pump Data

**Inches**

- **A:** 14.12
- **B:** 6.44
- **C:** 14.12
- **D:** 12.25
- **E:** 11.25
- **F:** .56
- **G:** 25
- **H:** 8.75
- **J:** N/A
- **K:** N/A
- **L:** N/A
- **M:** 32.81

**Liters/Second**

- **A:** 14.12
- **B:** 6.44
- **C:** 14.12
- **D:** 12.25
- **E:** 11.25
- **F:** .56
- **G:** 25
- **H:** 8.75
- **J:** N/A
- **K:** N/A
- **L:** N/A
- **M:** 32.81

### Pump Specifications

- **Impeller:** Semi-Open
- **No. of Vanes:** 5
- **Discharge Size:** 10", 12"
- **Thrust Constant:** 20.3
- **Suction Size:** 10"
- **Lateral:** 1.25
- **Std. Tube:** 3.5"
- **Eye Area In:** 38.96
- **WR^2:** 2.25 LB-FT^2
- **Shaft Dia:** 2.1875
- **One Stg.:** 522
- **Add Stg.:** 182

*This dimension to be used with NPSHR. Pump Installation and system must satisfy both values. Performance based on Cast Iron Enameled Bowls and Bronze Impellers.*

---

**Contact Information**

- **Corporate Office:**
  - Arizona: (800) 966-5240
  - California: (800) 868-9755
  - Florida: (800) 994-3045
  - Georgia: (800) 741-2921
  - Mississippi: (866) 668-4914
  - Texas: (800) 745-5393
  - Other Locations: www.nationalpumpcompany.com