IMPELLER DATA

<table>
<thead>
<tr>
<th>IMPELLER NUMBER</th>
<th>3692</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE</td>
<td>SEMI-OPEN</td>
</tr>
<tr>
<td>THUST FACTOR</td>
<td>K=3.52</td>
</tr>
<tr>
<td>EYE AREA</td>
<td>3.18 SQ. IN.</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>3.55 LB.</td>
</tr>
</tbody>
</table>

Minimum submergence above eye of bottom impeller: 14 IN.

Efficiency Correction

<table>
<thead>
<tr>
<th>NUMBER OF BOWLS:</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANGE AS FOLLOWS:</td>
<td>-3</td>
<td>-1</td>
<td>0</td>
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</tbody>
</table>

Change in efficiency may affect both head and horsepower.

FLANGED BOWL DATA

<table>
<thead>
<tr>
<th>BOWL NUMBER</th>
<th>3629</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOWL MAX. DIAMETER</td>
<td>7.813 IN.</td>
</tr>
<tr>
<td>BOWL MIN. DIAMETER</td>
<td>7.500 IN.</td>
</tr>
<tr>
<td>MAX. NO. STAGES</td>
<td>42</td>
</tr>
<tr>
<td>ONE STAGE WEIGHT</td>
<td>130 LB.</td>
</tr>
<tr>
<td>ADD STAGE WEIGHT</td>
<td>30 LB.</td>
</tr>
<tr>
<td>STD. SHAFT DIA.</td>
<td>1.000 IN.</td>
</tr>
<tr>
<td>STD. LATERAL</td>
<td>0.438 IN.</td>
</tr>
<tr>
<td>DISCHARGE SIZE</td>
<td>5 - 6 IN.</td>
</tr>
<tr>
<td>DISCHARGE CONNECTION</td>
<td>THD - FLG</td>
</tr>
<tr>
<td>SUCTION SIZE</td>
<td>5 - 6 IN.</td>
</tr>
<tr>
<td>SUCTION CONNECTION</td>
<td>THD</td>
</tr>
<tr>
<td>MAX. SPHERE SIZE</td>
<td>0.250 IN.</td>
</tr>
<tr>
<td>MAX. OPERATIONAL P.S.I.</td>
<td>692 (SPECIAL)</td>
</tr>
</tbody>
</table>

Pump Material Efficiency Correction

<table>
<thead>
<tr>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER MATERIAL:</td>
<td>-2</td>
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<tr>
<td>BOWL MATERIAL:</td>
<td>-2</td>
<td>-2</td>
<td>-2</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
**IMPELLER DATA**
- IMPELLER NUMBER: 3641
- TYPE: SEMI-OPEN
- THRUST FACTOR: \( K = 3.34 \)
- EYE AREA: 4.64 SQ. IN.
- WEIGHT: 4.25 LB.

Minimum submergence above eye of bottom impeller: 14IN.

**EFFICIENCY CORRECTION**
- NUMBER OF BOWLS: 1, 2, 3
- CHANGE AS FOLLOWS: -4, -2, 0

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>BOWL MATERIAL:</td>
<td>-2</td>
<td>-2</td>
<td>-2</td>
<td>-5</td>
</tr>
</tbody>
</table>

**FLANGED BOWL DATA**
- BOWL NUMBER: 3629
- BOWL MAX. DIAMETER: 7.813 IN.
- BOWL MIN. DIAMETER: 7.500 IN.
- MAX. NO. STAGES: 37
- ONE STAGE WEIGHT: 130 LB.
- ADD STAGE WEIGHT: 30 LB.
- STD. SHAFT DIA.: 1.000 IN.
- STD. LATERAL: 0.438 IN.
- DISCHARGE SIZE: 65
- DISCHARGE CONNECTION: THD - FLG
- SUCTION SIZE: 65
- SUCTION CONNECTION: THD
- MAX. SPHERE SIZE: 0.250 IN.
- MAX. OPERATIONAL P.S.I.: 692 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
TURBINE PUMP CURVE
SINGLE STAGE PERFORMANCE
JANUARY 2010

480 SERIES
8KS 1760 RPM

IMPELLER DATA
IMPELLER NUMBER: 3693
TYPE: SEMI-OPEN
THRUST FACTOR: K=4.42
EYE AREA: 6.60 SQ. IN.
WEIGHT: 3.75 LB.

Minimum submergence above
eye of bottom impeller: 20 IN.

FLANGED BOWL DATA
BOWL NUMBER: 3591
BOWL MAX. DIAMETER: 7.938 IN.
BOWL MIN. DIAMETER: 7.500 IN.
MAX. NO. STAGES: 37
ONE STAGE WEIGHT: 130 LB.
ADD STAGE WEIGHT: 30 LB.
STD. SHAFT Dia.: 1.000 IN.
STD. LATERAL: 0.438 IN.
DISCHARGE SIZE: 5 - 6 IN.
DISCHARGE CONNECTION: THD - FLG
SUCTION SIZE: 5 - 6 IN.
SUCTION CONNECTION: THD
MAX. SPHERE SIZE: 0.375 IN.
MAX. OPERATIONAL P.S.I.: 692 (SPECIAL)

EFFICIENCY CORRECTION
NUMBER OF BOWLS: 1 2 3
CHANGE AS FOLLOWS: -3 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION
IMPELLER MATERIAL: DUCTILE BRONZE NI-R STAINLESS
-2 0 -1 -2

BOWL MATERIAL: DUCTILE BRONZE NI-R STAINLESS
-2 -2 -2 -5

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly
adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

IMPELLER NUMBER: 3590
TYPE: SEMI-OPEN
THRUST FACTOR: K = 4.28
EYE AREA: 6.60 SQ. IN.
WEIGHT: 4.125 LB.

Minimum submergence above eye of bottom impeller: 24 IN.

FLANGED BOWL DATA

BOWL NUMBER: 3591
BOWL MAX. DIAMETER: 7.938 IN.
BOWL MIN. DIAMETER: 7.500 IN.
MAX. NO. STAGES: 23
ONE STAGE WEIGHT: 130 LB.
ADD STAGE WEIGHT: 30 LB.
STD. SHAFT DIA.: 1.000 IN.
STD. LATERAL: 0.438 IN.
DISCHARGE SIZE: 5 - 6 IN.
DISCHARGE CONNECTION: THD - FLG
SUCTION SIZE: 5 - 6 IN.
SUCTION CONNECTION: THD
MAX. SPHERE SIZE: 0.375 IN.
MAX. OPERATIONAL P.S.I.: 692 (SPECIAL)

EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th>NUMBER OF BOWLS:</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>5</th>
</tr>
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<tr>
<td>CHANGE AS FOLLOWS:</td>
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<td>-3</td>
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CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
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<tr>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
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<tr>
<td>BOWL MATERIAL:</td>
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<td>-2</td>
<td>-2</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

IMPELLER NUMBER: 2981
TYPE: SEMI-OPEN
THRUST FACTOR: K=5.40
EYE AREA: 8.48 SQ. IN.
WEIGHT: 3.25 LB.

Minimum submergence above eye of bottom impeller: 24 IN.

EFFICIENCY CORRECTION

NUMBER OF BOWLS:

- 1
- 2
- 3
- 4

CHANGE AS FOLLOWS:

- -3
- -2
- -1
- 0

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
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<td>BOWL MATERIAL:</td>
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<td>-2</td>
<td>-5</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
TURBINE PUMP CURVE
SINGLE STAGE PERFORMANCE
JANUARY 2010

IMPELLER DATA
- IMPELLER NUMBER: 5506
- TYPE: SEMI-OPEN
- THRUST FACTOR: K=8.00
- EYE AREA: 15.9 SQ. IN.
- WEIGHT: 5.00 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

EFFICIENCY CORRECTION
- NUMBER OF BOWLS: 1, 2, 3, 4
- CHANGE AS FOLLOWS: -3, -2, -1, 0

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER MATERIAL:</td>
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<td>0</td>
<td>-1</td>
<td>-2</td>
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<tr>
<td>BOWL MATERIAL:</td>
<td>-2</td>
<td>-2</td>
<td>-2</td>
<td>-5</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

IMPELLER NUMBER: 3103  
TYPE: SEMI-OPEN  
THRUST FACTOR: \( K = 7.50 \)  
EYE AREA: 11.7 SQ. IN.  
WEIGHT: 6.25 LB.  
Minimum submergence above eye of bottom impeller: 38 IN.

FLANGED BOWL DATA

BOWL NUMBER: 3098  
BOWL MAX. DIAMETER: 9.500 IN.  
BOWL MIN. DIAMETER: 9.250 IN.  
MAX. NO. STAGES: 34  
ONE STAGE WEIGHT: 230 LB.  
ADD STAGE WEIGHT: 55 LB.  
STD. SHAFT DIA.: 1.500 IN.  
STD. LATERAL: 0.500 IN.  
DISCHARGE SIZE: 6 - 8 IN.  
DISCHARGE CONNECTION: THD - FLG  
SUCTION SIZE: 6 - 8 IN.  
SUCTION CONNECTION: THD  
MAX. SPHERE SIZE: 0.500 IN.  
MAX. OPERATIONAL P.S.I.: 595 (SPECIAL)

EFFICIENCY CORRECTION

NUMBER OF BOWLS:  
1 2 3 4  
CHANGE AS FOLLOWS:  
-4 -2 -1 0  
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
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<td>BOWL MATERIAL:</td>
<td>-2</td>
<td>-2</td>
<td>-1</td>
<td>-3</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
TURBINE PUMP CURVE
SINGLE STAGE PERFORMANCE  JANUARY 2010

IMPELLER DATA
IMPELLER NUMBER: 3099
TYPE: SEMI-OPEN
THRUST FACTOR: K=7.50
EYE AREA: 11.7 SQ. IN.
WEIGHT: 5.75 LB.
Minimum submergence above eye of bottom impeller: 38 IN.

EFFICIENCY CORRECTION
NUMBER OF BOWLS:
1 2 3 4
CHANGE AS FOLLOWS:
-4 -2 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION
IMPELLER MATERIAL:
DUCTILE: -1
BRONZE: 0
NI-R: -1
STAINLESS: -2

BOWL MATERIAL:
DUCTILE: -2
BRONZE: -2
NI-R: -1
STAINLESS: -3

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

<table>
<thead>
<tr>
<th>IMPELLER NUMBER</th>
<th>2969</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE</td>
<td>SEMI-OPEN</td>
</tr>
<tr>
<td>THRUST FACTOR</td>
<td>K=9.20</td>
</tr>
<tr>
<td>EYE AREA</td>
<td>14.9 SQ. IN.</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>5.25 LB.</td>
</tr>
</tbody>
</table>

Minimum submergence above eye of bottom impeller: 27 IN.

EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th>NUMBER OF BOWLS:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANGE AS FOLLOWS:</td>
<td>-4</td>
<td>-2</td>
<td>-1</td>
<td>0</td>
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</tbody>
</table>

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

| IMPELLER MATERIAL: | -1 | 0 | -1 | -2 |
| BOWL MATERIAL:     | -2 | -2 | -1 | -3 |

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

FLANGED BOWL DATA

<table>
<thead>
<tr>
<th>BOWL NUMBER</th>
<th>2968</th>
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<tbody>
<tr>
<td>BOWL MAX. DIAMETER</td>
<td>9.500 IN.</td>
</tr>
<tr>
<td>BOWL MIN. DIAMETER</td>
<td>9.250 IN.</td>
</tr>
<tr>
<td>MAX. NO. STAGES</td>
<td>28</td>
</tr>
<tr>
<td>ONE STAGE WEIGHT</td>
<td>230 LB.</td>
</tr>
<tr>
<td>ADD STAGE WEIGHT</td>
<td>55 LB.</td>
</tr>
<tr>
<td>STD. SHAFT DIA.</td>
<td>1.500 IN.</td>
</tr>
<tr>
<td>STD. LATERAL</td>
<td>0.625 IN.</td>
</tr>
<tr>
<td>DISCHARGE SIZE</td>
<td>6 - 8 IN.</td>
</tr>
<tr>
<td>DISCHARGE CONNECTION</td>
<td>THD - FLG</td>
</tr>
<tr>
<td>SUCTION SIZE</td>
<td>6 - 8 IN.</td>
</tr>
<tr>
<td>SUCTION CONNECTION</td>
<td>THD</td>
</tr>
<tr>
<td>MAX. SPHERE SIZE</td>
<td>0.500 IN.</td>
</tr>
<tr>
<td>MAX. OPERATIONAL P.S.I.</td>
<td>595 (SPECIAL)</td>
</tr>
</tbody>
</table>
IMPELLER DATA

IMPELLER NUMBER: 3542
TYPE: SEMI-OPEN
THRUST FACTOR: K = 11.20
EYE AREA: 19.4 SQ. IN.
WEIGHT: 7.25 LB.

Minimum submergence above eye of bottom impeller: 28 IN.

FLANGED BOWL DATA

BOWL NUMBER: 3541
BOWL MAX. DIAMETER: 9.875 IN.
BOWL MIN. DIAMETER: 9.500 IN.
MAX. NO. STAGES: 28
ONE STAGE WEIGHT: 250 LB.
ADD STAGE WEIGHT: 60 LB.
STD. SHAFT DIA.: 1.688 IN.
STD. LATERAL: 0.875 IN.
DISCHARGE SIZE: 6 - 8 IN.
DISCHARGE CONNECTION: THD - FLG
SUCTION SIZE: 6 - 8 IN.
SUCTION CONNECTION: THD
MAX. SPHERE SIZE: 0.875 IN.
MAX. OPERATIONAL P.S.I.: 455 (SPECIAL)

EFFICIENCY CORRECTION

NUMBER OF BOWLS:
1 2 3 4
CHANGE AS FOLLOWS:
-4 -2 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER MATERIAL:</td>
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<tr>
<td>BOWL MATERIAL:</td>
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<td>-1</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

IMPELLER NUMBER: 3542
TYPE: SEMI-OPEN
THRUST FACTOR: K=11.40
EYE AREA: 19.4 SQ. IN.
WEIGHT: 7.25 LB.

Minimum submergence above eye of bottom impeller: 28 IN.

EFFICIENCY CORRECTION

NUMBER OF BOWLS: 1 2 3 4
CHANGE AS FOLLOWS: -4 -2 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

DUCTILE BRONZE NI-R STAINLESS
IMPELLER MATERIAL: -1 0 -1 -2
BOWL MATERIAL: -2 -2 -1 -3

FLANGED BOWL DATA

BOWL NUMBER: 3541
BOWL MAX. DIAMETER: 9.875 IN.
BOWL MIN. DIAMETER: 9.500 IN.
MAX. NO. STAGES: 28
ONE STAGE WEIGHT: 250 LB.
ADD STAGE WEIGHT: 60 LB.
STD. SHAFT DIA.: 1.688 IN.
STD. LATERAL: 0.750 IN.
DISCHARGE SIZE: 6 - 8 IN.
DISCHARGE CONNECTION: THD - FLG
SUCTION SIZE: 6 - 8 IN.
SUCTION CONNECTION: THD
MAX. SPHERE SIZE: 0.875 IN.
MAX. OPERATIONAL P.S.I.: 455 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
TURBINE PUMP CURVE
SINGLE STAGE PERFORMANCE
JANUARY 2010

**IMPELLER DATA**

- IMPPELLER NUMBER: 3863
- TYPE: SEMI-OPEN
- THRUST FACTOR: K=13.50
- EYE AREA: 26.7 SQ. IN.
- WEIGHT: 5.75 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

**EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th>NUMBER OF BOWLS:</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<td>-2</td>
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CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
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<td>IMPPELLER MATERIAL:</td>
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<td>-1</td>
</tr>
<tr>
<td>BOWL MATERIAL:</td>
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<td>-2</td>
<td>-1</td>
</tr>
</tbody>
</table>

**FLANGED BOWL DATA**

- BOWL NUMBER: 3864
- BOWL MAX. DIAMETER: 9.875 IN.
- BOWL MIN. DIAMETER: 9.500 IN.
- MAX. NO. STAGES: 26
- ONE STAGE WEIGHT: 250 LB.
- ADD STAGE WEIGHT: 60 LB.
- STD. SHAFT DIA.: 1.688 IN.
- STD. LATERAL: 0.500 IN.
- DISCHARGE SIZE: 6 - 8 IN.
- DISCHARGE CONNECTION: THD - FLG
- SUCTION SIZE: 6 - 8 IN.
- SUCTION CONNECTION: THD
- MAX. SPHERE SIZE: 1.438 IN.
- MAX. OPERATIONAL P.S.I.: 455 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

- IMPELLER NUMBER: 2997
- TYPE: SEMI-OPEN
- THRUST FACTOR: K=8.20
- EYE AREA: 18.1 SQ. IN.
- WEIGHT: 9.50 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

EFFICIENCY CORRECTION

- NUMBER OF BOWLS: 1, 2, 3, 4
- CHANGE AS FOLLOWS: -4, -3, -2, -1

Change in efficiency may affect both head and horsepower.

PUMP MATERIAL EFFICIENCY CORRECTION

- IMPELLER MATERIAL: DUCTILE -2, BRONZE 0, NI-R -1, STAINLESS -2
- BOWL MATERIAL: DUCTILE -2, BRONZE -1, NI-R -2, STAINLESS -3

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
480 SERIES  12KS  1760 RPM

**IMPELLER DATA**
- **IMPELLER NUMBER**: 2992
- **TYPE**: SEMI-OPEN
- **THRUST FACTOR**: K=7.75
- **EYE AREA**: 20.4 SQ. IN.
- **WEIGHT**: 9.00 LB.

**Minimum submergence above eye of bottom impeller**: 30 IN.

**EFFICIENCY CORRECTION**
- **NUMBER OF BOWLS**:
  - 1
  - 2
  - 3
  - 4
  - 5
- **CHANGE AS FOLLOWS**:
  - -4
  - -3
  - -2
  - -1
  - 0

**FLANGED BOWL DATA**
- **BOWL NUMBER**: 2994
- **BOWL MAX. DIAMETER**: 12.000 IN.
- **BOWL MIN. DIAMETER**: 11.500 IN.
- **MAX. NO. STAGES**: 16
- **ONE STAGE WEIGHT**: 340 LB.
- **ADD STAGE WEIGHT**: 100 LB.
- **STD. SHAFT DIA.**: 1.688 IN.
- **STD. LATERAL**: 0.500 IN.
- **DISCHARGE SIZE**: 8 - 10 IN.
- **DISCHARGE CONNECTION**: THD - FLG
- **SUCTION SIZE**: 8 - 10 IN.
- **SUCTION CONNECTION**: THD
- **MAX. SPHERE SIZE**: 0.625 IN.
- **MAX. OPERATIONAL P.S.I.**: 584 (SPECIAL)

**PUMP MATERIAL EFFICIENCY CORRECTION**
- **DUCTILE**
  - IMPELLER MATERIAL: -2
  - BOWL MATERIAL: -2
- **BRONZE**
  - IMPELLER MATERIAL: 0
  - BOWL MATERIAL: -1
- **NI-R**
  - IMPELLER MATERIAL: -1
  - BOWL MATERIAL: -2
- **STAINLESS**
  - IMPELLER MATERIAL: -2
  - BOWL MATERIAL: -3

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

**TURBINE PUMP CURVE**
**SINGLE STAGE PERFORMANCE**  **JANUARY 2010**
**IMPELLER DATA**

<table>
<thead>
<tr>
<th>IMPELLER NUMBER</th>
<th>3779</th>
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<tbody>
<tr>
<td>TYPE</td>
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</tr>
<tr>
<td>THRUST FACTOR</td>
<td>K=12.50</td>
</tr>
<tr>
<td>EYE AREA</td>
<td>20.1 SQ. IN.</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>8.13 LB.</td>
</tr>
</tbody>
</table>

Minimum submergence above eye of bottom impeller: 30 IN.

**FLANGED BOWL DATA**

<table>
<thead>
<tr>
<th>BOWL NUMBER</th>
<th>2952</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOWL MAX. DIAMETER</td>
<td>11.563 IN.</td>
</tr>
<tr>
<td>BOWL MIN. DIAMETER</td>
<td>11.250 IN.</td>
</tr>
<tr>
<td>MAX. NO. STAGES</td>
<td>19</td>
</tr>
<tr>
<td>ONE STAGE WEIGHT</td>
<td>340 LB.</td>
</tr>
<tr>
<td>ADD STAGE WEIGHT</td>
<td>100 LB.</td>
</tr>
<tr>
<td>STD. SHAFT DIA.</td>
<td>1.688 IN.</td>
</tr>
<tr>
<td>STD. LATERAL</td>
<td>0.875 IN.</td>
</tr>
<tr>
<td>DISCHARGE SIZE</td>
<td>8 - 10 IN.</td>
</tr>
<tr>
<td>DISCHARGE CONNECTION</td>
<td>THD - FLG</td>
</tr>
<tr>
<td>SUCTION SIZE</td>
<td>8 - 10 IN.</td>
</tr>
<tr>
<td>SUCTION CONNECTION</td>
<td>THD</td>
</tr>
<tr>
<td>MAX. SPHERE SIZE</td>
<td>0.625 IN.</td>
</tr>
<tr>
<td>MAX. OPERATIONAL P.S.I.</td>
<td>584 (SPECIAL)</td>
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**EFFICIENCY CORRECTION**

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<thead>
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<th>NUMBER OF BOWLS:</th>
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<th>3</th>
<th>4</th>
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<tr>
<td>CHANGE AS Follows:</td>
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Change in efficiency may affect both head and horsepower.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
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<tr>
<td>BOWL MATERIAL:</td>
<td>-2</td>
<td>-1</td>
<td>-2</td>
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</table>

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

IMPELLER NUMBER: 2956
TYPE: SEMI-OPEN
THRUST FACTOR: K=12.50
EYE AREA: 20.1 SQ. IN.
WEIGHT: 10.00 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

EFFICIENCY CORRECTION

NUMBER OF BOWLS: 1 2 3 4
CHANGE AS FOLLOWS: -3 -2 -1 0

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
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<tbody>
<tr>
<td>IMPELLER MATERIAL:</td>
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<td>BOWL MATERIAL:</td>
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<td>-1</td>
<td>-2</td>
<td>-3</td>
</tr>
</tbody>
</table>

FLANGED BOWL DATA

BOWL NUMBER: 2952
BOWL MAX. DIAMETER: 11.563 IN.
BOWL MIN. DIAMETER: 11.250 IN.
MAX. NO. STAGES: 14
ONE STAGE WEIGHT: 340 LB.
ADD STAGE WEIGHT: 100 LB.
STD. SHAFT DIA.: 1.688 IN.
STD. LATERAL: 0.750 IN.
DISCHARGE SIZE: 6 - 10 IN.
DISCHARGE CONNECTION: THD - FLG
SUCTION SIZE: 6 - 10 IN.
SUCTION CONNECTION: THD
MAX. SPHERE SIZE: 0.625 IN.
MAX. OPERATIONAL P.S.I.: 584 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
**IMPELLER DATA**
- **IMPELLER NUMBER:** 2953
- **TYPE:** SEMI-OPEN
- **THRUST FACTOR:** K=19.00
- **EYE AREA:** 32.4 SQ. IN.
- **WEIGHT:** 11.25 LB.
- Minimum submergence above eye of bottom impeller: 30 IN.

**EFFICIENCY CORRECTION**
- **NUMBER OF BOWLS:**
  - 1
  - 2
  - 3
  - 4
- **CHANGE AS FOLLOWS:**
  - -4
  - -2
  - -1
  - 0

**PUMP MATERIAL EFFICIENCY CORRECTION**
- **IMPELLER MATERIAL:**
  - DUCTILE: -2
  - BRONZE: 0
  - NI-R: -1
  - STAINLESS: -2
- **BOWL MATERIAL:**
  - DUCTILE: -2
  - BRONZE: -1
  - NI-R: -2
  - STAINLESS: -3

**FLANGED BOWL DATA**
- **BOWL NUMBER:** 2915
- **BOWL MAX. DIAMETER:** 11.563 IN.
- **BOWL MIN. DIAMETER:** 11.250 IN.
- **MAX. NO. STAGES:** 15
- **ONE STAGE WEIGHT:** 340 LB.
- **ADD STAGE WEIGHT:** 100 LB.
- **STD. SHAFT DIA.:** 1.688 IN.
- **STD. LATERAL:** 0.750 IN.
- **DISCHARGE SIZE:** 8 - 10 IN.
- **DISCHARGE CONNECTION:** THD - FLG
- **SUCTION SIZE:** 8 - 10 IN.
- **SUCTION CONNECTION:** THD
- **MAX. SPHERE SIZE:** 0.750 IN.
- **MAX. OPERATIONAL P.S.I.:** 584 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
**IMPELLER DATA**

- **IMPELLER NUMBER**: 3374
- **TYPE**: SEMI-OPEN
- **THRUST FACTOR**: \( K = 20.80 \)
- **EYE AREA**: 35.6 SQ. IN.
- **WEIGHT**: 11.50 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

**FLANGED BOWL DATA**

- **BOWL NUMBER**: 3361
- **BOWL MAX. DIAMETER**: 11.563 IN.
- **BOWL MIN. DIAMETER**: 11.250 IN.
- **MAX. NO. STAGES**: 11
- **ONE STAGE WEIGHT**: 340 LB.
- **ADD STAGE WEIGHT**: 100 LB.
- **STD. SHAFT Dia.**: 1.688 IN.
- **STD. LATERAL**: 0.875 IN.
- **DISCHARGE SIZE**: 8 - 10 IN.
- **DISCHARGE CONNECTION**: THD - FLG
- **SUCTION SIZE**: 8 - 10 IN.
- **SUCTION CONNECTION**: THD
- **MAX. SPHERE SIZE**: 1.000 IN.
- **MAX. OPERATIONAL P.S.I.**: 584 (SPECIAL)

**EFFICIENCY CORRECTION**

- **NUMBER OF BOWLS**: 1 2 3 4
- **CHANGE AS FOLLOWS**: -4 -2 -1 0

Change in efficiency may affect both head and horsepower.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>Ni-R</th>
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<tbody>
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<tr>
<td>BOWL</td>
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<td>-1</td>
<td>-2</td>
<td>-3</td>
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</table>

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
**IMPELLER DATA**

- **IMPELLER NUMBER**: 4777
- **TYPE**: SEMI-OPEN
- **THRUST FACTOR**: K=17.40
- **EYE AREA**: 29.7 SQ. IN.
- **WEIGHT**: 14.50 LB.

**Minimum submergence above eye of bottom impeller**: 32 IN.

**FLANGED BOWL DATA**

- **BOWL NUMBER**: 4771
- **BOWL MAX. DIAMETER**: 12.188 IN.
- **BOWL MIN. DIAMETER**: 11.750 IN.
- **MAX. NO. STAGES**: 9
- **ONE STAGE WEIGHT**: 415 LB.
- **ADD STAGE WEIGHT**: 140 LB.
- **STD. SHAFT DIA.**: 1.688 IN.
- **STD. LATERAL**: 0.750 IN.
- **DISCHARGE SIZE**: 8 - 10 IN.
- **DISCHARGE CONNECTION**
  - **THD**: THD
  - **FLG**: FLG
- **SUCTION SIZE**: 8 - 10 IN.
- **SUCTION CONNECTION**: THD
- **MAX. SPHERE SIZE**: 1.375 IN.
- **MAX. OPERATIONAL P.S.I.**: 584 (SPECIAL)

**EFFICIENCY CORRECTION**

- **NUMBER OF BOWLS**: 1, 2, 3, 4
- **CHANGE AS FOLLOWS**: -3, -2, -1, 0

Change in efficiency may affect both head and horsepower.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
<th>NI-R</th>
<th>STAINLESS</th>
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<td>IMPELLER MATERIAL:</td>
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<td>BOWL MATERIAL:</td>
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Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

- IMPELLER NUMBER: 4778
- TYPE: SEMI-OPEN
- THRUST FACTOR: K=16.50
- EYE AREA: 38.0 SQ. IN.
- WEIGHT: 19.00 LB.
- Minimum submergence above eye of bottom impeller: 36 IN.

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

<table>
<thead>
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<th>IMPELLER NUMBER</th>
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<td>TYPE</td>
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<tr>
<td>THRUST FACTOR</td>
<td>K=19.70</td>
</tr>
<tr>
<td>EYE AREA</td>
<td>31.5 SQ. IN.</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>18.50 LB.</td>
</tr>
</tbody>
</table>

Minimum submergence above eye of bottom impeller: 30 IN.

EFFICIENCY CORRECTION

<table>
<thead>
<tr>
<th>NUMBER OF BOWLS:</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>CHANGE AS FOLLOWS:</td>
<td>-2</td>
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CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

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<tr>
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<th>DUCTILE</th>
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<td>BOWL MATERIAL:</td>
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FLANGED BOWL DATA

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<thead>
<tr>
<th>BOWL NUMBER</th>
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<tbody>
<tr>
<td>BOWL MAX. DIAMETER</td>
<td>13.500 IN.</td>
</tr>
<tr>
<td>BOWL MIN. DIAMETER</td>
<td>13.250 IN.</td>
</tr>
<tr>
<td>MAX. NO. STAGES</td>
<td>12</td>
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<tr>
<td>ONE STAGE WEIGHT</td>
<td>490 LB.</td>
</tr>
<tr>
<td>ADD STAGE WEIGHT</td>
<td>175 LB.</td>
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<tr>
<td>STD. SHAFT DIA.</td>
<td>1.938 IN.</td>
</tr>
<tr>
<td>STD. LATERAL</td>
<td>0.875 IN.</td>
</tr>
<tr>
<td>DISCHARGE SIZE</td>
<td>10 - 12 IN.</td>
</tr>
<tr>
<td>DISCHARGE CONNECTION</td>
<td>THD - FLG</td>
</tr>
<tr>
<td>SUCTION SIZE</td>
<td>10 - 12 IN.</td>
</tr>
<tr>
<td>SUCTION CONNECTION</td>
<td>THD</td>
</tr>
<tr>
<td>MAX. SPHERE SIZE</td>
<td>0.750 IN.</td>
</tr>
<tr>
<td>MAX. OPERATIONAL P.S.I.</td>
<td>540 (SPECIAL)</td>
</tr>
</tbody>
</table>

Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER NUMBER: 3078
TYPE: SEMI-OPEN
THRUST FACTOR: K=23.40
EYE AREA: 40.9 SQ. IN.
WEIGHT: 20.25 LB.

Minimum submergence above eye of bottom impeller: 30 IN.

EFFICIENCY CORRECTION
NUMBER OF BOWLS: 1 2 3 4
CHANGE AS FOLLOWS: -3 -2 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION
<table>
<thead>
<tr>
<th></th>
<th>DUCTILE</th>
<th>BRONZE</th>
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Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
Performance based on pumping clear, fresh water at a temperature not over 85° F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
TURBINE PUMP CURVE
SINGLE STAGE PERFORMANCE
JANUARY 2010

IMPELLER DATA
IMPELLER NUMBER 3092
TYPE SEMI-OPEN
THRUST FACTOR K=23.40
EYE AREA 40.9 SQ. IN.
WEIGHT 20.25 LB.

Minimum submergence above eye of bottom impeller: 32 IN.

FLANGED BOWL DATA
BOWL NUMBER 3042
BOWL MAX. DIAMETER 13.500 IN.
BOWL MIN. DIAMETER 13.250 IN.
MAX. NO. STAGES 8
ONE STAGE WEIGHT 490 LB.
ADD STAGE WEIGHT 175 LB.
STD. SHAFT DIA. 1.938 IN.
STD. LATERAL 0.875 IN.
DISCHARGE SIZE 10 - 12 IN.
DISCHARGE CONNECTION THD - FLG
SUCTION SIZE 10 - 12 IN.
SUCTION CONNECTION THD
MAX. SPHERE SIZE 1.250 IN.
MAX. OPERATIONAL P.S.I. 540 (SPECIAL)

EFFICIENCY CORRECTION
NUMBER OF BOWLS: 1 2 3 4
CHANGE AS FOLLOWS: -3 -2 -1 0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA

- **IMPELLER NUMBER**: 4153
- **TYPE**: SEMI-OPEN
- **THRUST FACTOR**: \( K = 26.20 \)
- **EYE AREA**: 47.3 SQ. IN.
- **WEIGHT**: 23.25 LB.
- **Minimum submergence above eye of bottom impeller**: 34 IN.

**EFFICIENCY CORRECTION**

- **NUMBER OF BOWLS**: 1, 2, 3, 4
- **CHANGE AS FOLLOWS**: -4, -2, -1, 0

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

**PUMP MATERIAL EFFICIENCY CORRECTION**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DUCTILE</th>
<th>BRONZE</th>
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<td>BOWL MATERIAL</td>
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</tbody>
</table>

**FLANGED BOWL DATA**

- **BOWL NUMBER**: 4152
- **BOWL MAX. DIAMETER**: 14.063 IN.
- **BOWL MIN. DIAMETER**: 13.750 IN.
- **MAX. NO. STAGES**: 9
- **ONE STAGE WEIGHT**: 500 LB.
- **ADD STAGE WEIGHT**: 185 LB.
- **STD. SHAFT DIA.**: 1.938 IN.
- **STD. LATERAL**: 0.875 IN.
- **DISCHARGE SIZE**: 10 - 12 IN.
- **DISCHARGE CONNECTION**: THD - FLG
- **SUCTION SIZE**: 10 - 12 IN.
- **SUCTION CONNECTION**: THD
- **MAX. SPHERE SIZE**: 1.500 IN.
- **MAX. OPERATIONAL P.S.I.**: 540 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.
IMPELLER DATA
- IMPELLER NUMBER: 0004
- TYPE: SEMI-OPEN
- THRUST FACTOR: K=30.00
- EYE AREA: 63.6 SQ. IN.
- WEIGHT: 21.00 LB.
- Minimum submergence above eye of bottom impeller: 36 IN.

EFFICIENCY CORRECTION
- NUMBER OF BOWLS: 1
  - CHANGE AS FOLLOWS: -3, -2, -1, 0
- CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION
- IMPELLER MATERIAL: 0004
  - DUCTILE: -2
  - BRONZE: 0
  - NI-R: -1
  - STAINLESS: -1
- BOWL MATERIAL: 0001
  - DUCTILE: -2
  - BRONZE: -1
  - NI-R: -2
  - STAINLESS: -2

FLANGED BOWL DATA
- BOWL NUMBER: 0001
- BOWL MAX. DIAMETER: 15.250 IN.
- BOWL MIN. DIAMETER: 14.750 IN.
- MAX. NO. STAGES: 6
- ONE STAGE WEIGHT: 375 LB.
- ADD STAGE WEIGHT: 170 LB.
- STD. SHAFT DIA.: 1.938 IN.
- STD. LATERAL: 0.688 IN.
- DISCHARGE SIZE: 10 - 12 IN.
- DISCHARGE CONNECTION: THD - FLG
- SUCTION SIZE: 10 - 12 IN.
- SUCTION CONNECTION: THD
- MAX. SPHERE SIZE: 2.250 IN.
- MAX. OPERATIONAL P.S.I.: 540 (SPECIAL)

Performance based on pumping clear, fresh water at a temperature not over 85°F, free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.