Model VSCS
8x10x13½B
Double Suction Split Case Pump

SPECIFICATIONS

FLOW ________ HEAD ________
HP ________ RPM ________
VOLTS ________ CYCLE ________ PHASE ________
ENCLOSURE ________ APPROX. WEIGHT ________
SPECIALS ________

STANDARD MATERIALS OF CONSTRUCTION
- Cast Iron Bronze Fitted
- Heavy Duty Maintenance Free Bearings
- Alignment Friendly Coupling
- Heavy Duty Groutless Baseplate
- ANSI/OSHA Coupling Guard
- ISO 1940-1:2003 Impeller Balance

OPTIONAL MATERIALS OF CONSTRUCTION
- Galvanized Drip Pan
- Spacer Coupling

TYPE OF SEAL AND WORKING PRESSURE

- **Standard**: 175 PSIG (12 BAR) max. working pressure, flat face flanges, 125# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 175 PSIG (12 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional**: 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 300 PSIG (20 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional**: 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, balanced mechanical seal, EPR/Graphite loaded Silicon Carbide on Graphite loaded Silicon Carbide, 300 PSIG (20 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
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8x10x13½B
Double Suction Split Case Pump

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STANDARD MATERIALS OF CONSTRUCTION
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- **Standard:** 175 PSIG (12 BAR) max. working pressure, flat face flanges, 125# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 175 PSIG (12 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional:** 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 200 PSIG (13.7 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional:** 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, balanced mechanical seal, EPR/Graphite loaded Silicon Carbide on Graphite loaded Silicon Carbide, 300 PSIG (20 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)

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**Series VSX**

**Bell & Gossett**

8x10x13½B
1480 RPM

![Graph showing performance characteristics of the pump model VSX 8x10x13½B.](image)
**Model VSCS 8x10x13½B**

Double Suction Split Case Pump

**Specifications**

<table>
<thead>
<tr>
<th>Flow</th>
<th>Head</th>
<th>HP</th>
<th>RPM</th>
<th>Volts</th>
<th>Cycle</th>
<th>Phase</th>
<th>Enclosure</th>
<th>Approx. Weight</th>
<th>Specials</th>
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<tbody>
<tr>
<td></td>
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</table>

**Standard Materials of Construction**

- Cast Iron Bronze Fitted
- Heavy Duty Maintenance Free Bearings
- Alignment Friendly Coupling
- Heavy Duty Groutless Baseplate
- ANSI/OSHA Coupling Guard
- ISO 1940-1:2003 Impeller Balance

**Optional Materials of Construction**

- Galvanized Drip Pan
- Spacer Coupling

**Type of Seal and Working Pressure**

- **Standard:** 175 PSIG (12 BAR) max. working pressure, flat face flanges, 125# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 175 PSIG (12 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional:** 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, Unitized mechanical seal, EPR/Carbon/Silicon Carbide, 200 PSIG (13.7 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)
- **Optional:** 300 PSIG (20 BAR) max. working pressure, flat face flanges, 250# ANSI flange drilling, balanced mechanical seal, EPR/Graphite loaded Silicon Carbide on Graphite loaded Silicon Carbide, 300 PSIG (20 BAR) max. suction pressure, 0 to 300°F (-18 to 149°C)

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**Series VSX**

<table>
<thead>
<tr>
<th>Capacity (GPM)</th>
<th>Total Head (FT)</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>200</td>
<td>10</td>
</tr>
<tr>
<td>400</td>
<td>20</td>
</tr>
<tr>
<td>600</td>
<td>30</td>
</tr>
<tr>
<td>800</td>
<td>40</td>
</tr>
<tr>
<td>1,000</td>
<td>50</td>
</tr>
<tr>
<td>2,000</td>
<td>60</td>
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<tr>
<td>3,000</td>
<td>70</td>
</tr>
<tr>
<td>4,000</td>
<td>80</td>
</tr>
<tr>
<td>5,000</td>
<td>90</td>
</tr>
</tbody>
</table>

**Bell & Gossett**

**8x10x13½B**

1780 RPM

**NPSHr (ft)** (M)

**NPSHr (ft)** (M)
Model VSCS 8x10x13½B Centrifugal Pump Submittal

**FLANGE DIMENSIONS IN INCHES (MM)**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>THICKNESS</th>
<th>O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>8&quot;</td>
<td>1.81 (46)</td>
</tr>
<tr>
<td>Suction</td>
<td>10&quot;</td>
<td>2.07 (52)</td>
</tr>
</tbody>
</table>

**FLANGES ARE 125# ANSI - STANDARD**

**250# ANSI - AVAILABLE**

**DIMENSIONS IN INCHES (MM)**

<table>
<thead>
<tr>
<th>S</th>
<th>X</th>
<th>Yy</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.6</td>
<td>18.25</td>
<td>18.25</td>
<td>10.6</td>
</tr>
</tbody>
</table>

(269) (464) (464) (269)

Removal clearance from end of bracket: 24 inches (610 mm)

**STANDARD COUPLER**

Motor dimensions are approximate and vary by manufacturer and motor type.

*Distance to the next available hole.

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www.bellgossett.com

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Model VSCS 8x10x13½B Centrifugal Pump Submittal

**FLANGE DIMENSIONS IN INCHES (MM)**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>THICKNESS</th>
<th>O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction 10&quot;</td>
<td>2.07 (52)</td>
<td>17.00 (432)</td>
</tr>
<tr>
<td>Discharge 8&quot;</td>
<td>1.81 (46)</td>
<td>14.75 (375)</td>
</tr>
</tbody>
</table>

**FLANGES ARE 125# ANSI - STANDARD**

250# ANSI - AVAILABLE

**DIMENSIONS IN INCHES (MM)**

<table>
<thead>
<tr>
<th>S</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.6</td>
<td>18.25</td>
<td>18.25</td>
<td>10.6</td>
</tr>
</tbody>
</table>

Removal clearance from end of bracket: 24 inches (610 mm)

**SPACER COUPLER**

Motor dimensions are approximate and vary by manufacturer and motor type.

"Distance to the next available hole.

| MOTOR FRAME | CP | HA | HB | HC | HD | 2HE | HF₁ | HF₂ | HQ | HH | HM | HO | HP | HQ | HR | W |
|-------------|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| 284T/TS 37.9 | 31.4 | 73 | 74.083 | 182 (275) | 29.52 | 63 | 15.75 | 6.25 | 0.88 | 35.07 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 286T/TS 37.9 | 31.4 | 73 | 75.579 | 182 (275) | 29.52 | 63 | 15.75 | 6.25 | 0.88 | 35.07 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 324T/TS 37.9 | 31.4 | 84 | 78.4 | 1911 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 35.82 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 326T/TS 37.9 | 31.4 | 84 | 79.52 | 2020 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 36.35 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 364T/TS 37.9 | 31.4 | 84 | 81.359 | 2067 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 37.2 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 366T/TS 37.9 | 31.4 | 84 | 81.359 | 2067 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 37.2 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 404T/TS 37.9 | 31.4 | 84 | 83.96 | 2133 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 37.72 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 406T/TS 37.9 | 31.4 | 84 | 85.96 | 2183 (275) | 29.52 | 74 | 18.5 | 6.25 | 0.88 | 37.72 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 444T/TS 37.9 | 31.4 | 94 | 91.426 | 2322 (275) | 29.52 | 84 | 16.8 | 6.25 | 0.88 | 42.77 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 446T/TS 37.9 | 31.4 | 94 | 93.03 | 2363 (275) | 29.52 | 84 | 16.8 | 6.25 | 0.88 | 42.77 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 447T/TS 37.9 | 31.4 | 94 | 99.51 | 2528 (275) | 29.52 | 84 | 16.8 | 6.25 | 0.88 | 41.13 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |
| 449T/TS 37.9 | 31.4 | 94 | 100.21 | 2545 (275) | 29.52 | 84 | 16.8 | 6.25 | 0.88 | 41.13 | 45.5 | 5 | 5 | 19.82 | 232 | 529 |

Dimensions are subject to change. Not to be used for construction purposes unless certified.
Units may be built where foot/feet overhang the motor mounting platform. If overhang is unacceptable, consult factory for a custom submittal, quotation and/or lead time. A certified motor drawing will be required.

These dimensions are valid when using the Woods Duraflex spacer coupling option. For dimensions on Falk SteelFlex coupling options, consult factory for a special submittal drawing.

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