### PUMP MODEL OPTION (SELECT ONE):
1. CAST IRON (VOLUTE & HEAD)
2. BRONZE (VOLUTE & HEAD)

### PUMP RATING OPTION (SELECT ONE):
1. 3500 GPM @ 100 PSI
2. 4000 GPM @ 100 PSI
3. 4500 GPM @ 100 PSI
4. 5000 GPM @ 100 PSI
5. 5500 GPM @ 100 PSI
6. 6000 GPM @ 100 PSI
7. 3500 GPM @ 150 PSI
8. 4000 GPM @ 150 PSI
9. 4500 GPM @ 150 PSI
10. 5000 GPM @ 150 PSI
11. 5500 GPM @ 150 PSI
12. 6000 GPM @ 150 PSI

### PUMP RATIO OPTION (SELECT ONE):
1. 1 : 1.000
2. 1 : 1.322
3. 1 : 1.583
4. 1 : 1.714

### PUMP MANUAL OPTION (SELECT ONE):
1. PAPER MANUAL
2. CD VERSION (2)

### PANEL PLACARD OPTION (SELECT ONE):
1. STAMPED SERIAL NUMBER PLACARD
2. NO PLACARD

### PAINT OPTION (SELECT ONE):
1. BLACK PRIMER
2. GRAY PRIMER
3. HALO BLACK FINISH COAT
4. HALO RED FINISH COAT

### DISCHARGE FLANGE OPTIONS (SELECT ONE FOR LEFT VOLUTE):
1. NONE (6 x 11 ASA 150# OPEN PUMP FLANGE)
2. FLANGE 6.0 INCH NPT FEMALE (CAST IRON)
3. FLANGE 6.0 INCH NPT FEMALE (STAINLESS)

### SUCTION FLANGE OPTIONS (SELECT ONE FOR LEFT VOLUTE):
1. 8 x PER VOLUTE
2. TRV-120
3. TRV-120L
4. MAGNESIUM ANODE
5. ALLOY ANODE
6. 1-1/4 NPT PLUG (STANDARD)
7. TRV-170
8. TRV-170L

### AUX. DISCH. PORT OPTIONS (SELECT ONE FOR LEFT VOLUTE):
1. FLANGE 6.0 INCH NPT FEMALE (CAST IRON)
2. FLANGE 6.0 INCH NPT FEMALE (STAINLESS)

### DRIVE LINE RECOMMENDATIONS
Apparatus builder supplied drive lines shall be of appropriate size to match the chassis and pump requirements with individual joint cancellation and phasing before and after the pump. Drive shaft balance (including yokes) shall not exceed the recommended limit of either the drive shaft or chassis transmission manufacturer's specifications. Drive shaft full range operating speeds shall not exceed 42% of its critical speed.

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**Drive Flange, Spicer Series Combination Flanges 1600, 1700, 1800**
(USE GRADE 8 FASTENERS)

<table>
<thead>
<tr>
<th>Volume</th>
<th>Diameter</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x PER SIDE</td>
<td>34-10 UNC - 2B</td>
<td>30.9 (1.30)</td>
</tr>
<tr>
<td>8 x PER VOLUTE</td>
<td>34-10 UNC - 2B</td>
<td>28.8 (1.13)</td>
</tr>
<tr>
<td>5 x PER VOLUTE</td>
<td>1/2-13 UNC - 2B</td>
<td>19.0 (0.75)</td>
</tr>
</tbody>
</table>

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**LEFT VOLUTE**

<table>
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<tr>
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<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 x PER VOLUTE</td>
<td>φ 19.0</td>
<td>19.0 (0.75)</td>
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</tbody>
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**RIGHT VOLUTE**

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<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 x PER VOLUTE</td>
<td>φ 19.0</td>
<td>19.0 (0.75)</td>
</tr>
</tbody>
</table>

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**NOTES:**
- IF IN DOUBT ASK.
- DIMENSIONS ARE IN MILLIMETERS [INCHES ARE FOR REFERENCE ONLY] TOLERANCE FOR MILLIMETER DIMENSIONS:
  - X: ±1
  - X.X: ±0.5
  - X.XX: ±0.25
  - X.XXX: ±0.125
- ANGLES: ±0.25°
- SURFACE TEXTURE: \( μm \) Ra
- UNLESS OTHERWISE SPECIFIED
- REMOVE ALL SHARP EDGES, 0.25 MAX
- TRV-120
- TRV-120L
- MAGNESIUM ANODE
- ALLOY ANODE
- 1-1/4 NPT PLUG (STANDARD)
- TRV-170
- TRV-170L
- 2 x PER SIDE
- FLANGE 6.0 INCH NPT FEMALE (CAST IRON)
- FLANGE 6.0 INCH NPT FEMALE (STAINLESS)
- TRV-170L
- MAGNESIUM ANODE
- ALLOY ANODE
- 1-1/4 NPT PLUG (STANDARD)
- TRV-170L
- 2 x PER SIDE
- FLANGE 6.0 INCH NPT FEMALE (CAST IRON)
- FLANGE 6.0 INCH NPT FEMALE (STAINLESS)
VOLUTE POSITION OPTION (SELECT ONE):
1. DFG VOLUTE POSITION # 1 - 0° LEFT, 0° RIGHT
2. DFG VOLUTE POSITION # 2 - 270° LEFT, 90° RIGHT
3. DFG VOLUTE POSITION # 3 - 315° LEFT, 135° RIGHT