THE CAST "I" ON PUMP HEAD TO POINT UP FOR INVERTED GEARBOX POSITIONS.

HORIZONTAL RH - 22.5°
(NOT AVAILABLE WITH ENGINE MOUNT)

HORIZONTAL LH - 22.5°
(NOT AVAILABLE WITH ENGINE MOUNT)

VERTICAL
(PUMP OVER INPUT)

INVERTED
(INPUT OVER PUMP)

HORIZONTAL RH

HORIZONTAL LH

SECTION C-C
SCALE 1 : 6

SECTION D-D
SCALE 1 : 6

ENGINE ROTATION Volute Position

OPPOSITE ENGINE ROTATION Volute Position

GEARBOX AND DISCHARGE POSITIONS
NOTE:

1. LEVEL 1 REPAIR KIT PROVIDES EVERYTHING NEEDED TO CHANGE SEAL.
2. LEVEL 2 REPAIR KIT PROVIDES LEVEL 1 AND ITEMS NEEDED FOR BEARINGS.
3. LEVEL 3 REPAIR KIT PROVIDES LEVEL 1 & 2 AND ITEMS TO REPLACE GEARS.
4. IMPELLER RENEW KIT PROVIDES LEVEL 1 REPAIR KIT AND ITEMS TO REPLACE IMPELLER.

<table>
<thead>
<tr>
<th>RATIO NAME</th>
<th>GEAR RATIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>-29F</td>
<td>2.91</td>
</tr>
<tr>
<td>-26F</td>
<td>2.60</td>
</tr>
<tr>
<td>-23F</td>
<td>2.33</td>
</tr>
<tr>
<td>-19F</td>
<td>1.90</td>
</tr>
<tr>
<td>-16F</td>
<td>1.64</td>
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<tr>
<td>-13F</td>
<td>1.31</td>
</tr>
<tr>
<td>-11F</td>
<td>1.14</td>
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<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
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</thead>
<tbody>
<tr>
<td>75-125 IMPELLER RENEW KIT (OER)</td>
<td>516-00028-010</td>
</tr>
<tr>
<td>75-125 IMPELLER RENEW KIT (ER)</td>
<td>516-00028-000</td>
</tr>
<tr>
<td>150 IMPELLER RENEW KIT (OER) - 6&quot; VIC</td>
<td>516-00024-010</td>
</tr>
<tr>
<td>150 IMPELLER RENEW KIT (ER) - 6&quot; VIC</td>
<td>516-00024-000</td>
</tr>
<tr>
<td>150 IMPELLER RENEW KIT (OER) - RAMHORN</td>
<td>516-00030-010</td>
</tr>
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<td>150 IMPELLER RENEW KIT (ER) - RAMHORN</td>
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HALE RSD FLEX SERIES PUMP
GEARBOX POSITION - INVERTED, DISCHARGE POSITION - 1
ENGINE ROTATION AND OPTIONAL GEARBOX COOLER SHOWN

NOTES:
1. PRIMING SYSTEM, DISCHARGE & SUCTION VALVES, PRESSURE RELIEF VALVES & CONTROLLERS AND THERMAL RELIEF VALVES ARE AVAILABLE.
2. USE SAE 10 LONG-LIFE SYNTHETIC MANUAL TRANSMISSION FLUID MEETING ONE OR MORE OF THE FOLLOWING SPECIFICATIONS.
   - API MT-1
   - Eaton PS-164 Rev. 7
   - Mack TO-A Plus
   - Meritor 0-81
   - Rockwell / Eaton / Fuller CD-50 (PS-081)
   - ZF Friedrichshafen
3. FILL GEARBOX UNTIL OIL LEVEL INDICATOR WINDOW IS 1/2 TO 3/4 FULL. APPROXIMATE OIL CAPACITY IS 1.5 QUART [1.4 LITER].
4. ALL METRIC FASTENERS TO HAVE A MINIMUM PROPERTY CLASS 8.8. 4.
5. ALL SAE FASTENERS TO HAVE A MINIMUM GRADE 5 SPECIFICATION.

GEARBOX IDENTIFICATION:
HALE TYPE RSD/RSD-GB PUMP IS AVAILABLE WITH MULTIPLE DRIVE RATIOS TO ADAPT TO A WIDE VARIETY OF APPLICATIONS. THE RATING, RATIO AND DRIVE UNIT TYPE DENOTES METRIC GEARBOX TYPE.
THE MODEL NUMBER FOR AN RSD RATED AT 1000 GPM WITH A DRIVE RATIO OF 2.33 AND HALE DRIVE UNIT WOULD BE:
RSDM-23F
THE MODEL NUMBER FOR AN RSD RATED AT 5000 (LPM) WITH A DRIVE RATIO OF 2.33 AND HALE DRIVE UNIT WOULD BE:
RSDM-23F

MAXIMUM ALLOWABLE HYDRODYNAMIC PRESSURE: 400 PSIG; MAXIMUM ALLOWABLE HYDROSTATIC PRESSURE: 500 PSIG

OPTIONS AND ACCESSORIES

GEAR RATIOS & PUMP MODELS

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<tbody>
<tr>
<td>RSD* 23F</td>
<td>2.33</td>
</tr>
<tr>
<td>RSD* 27F</td>
<td>2.70</td>
</tr>
<tr>
<td>RSD* 29F</td>
<td>2.90</td>
</tr>
<tr>
<td>RSD* 31F</td>
<td>3.10</td>
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EXCEEDING THESE LIMITS OR FAILURE TO FOLLOW THE RECOMMENDATIONS OUTLINED ON THIS DRAWING COULD DAMAGE THE PUMP AND RESULT IN PERSONAL INJURY.

CAUTION:
BE SURE TO INCLUDE THE MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING PARTS OR REQUESTING INFORMATION. THE MODEL / SERIAL NUMBER PLATE IS LOCATED ON TOP OF GEAR DRIVE AS SHOWN IN DRAWINGS.

MAXIMUM INPUT RPM

WARNING:
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THE PUMP AND RESULT IN PERSONAL INJURY.

RSD IDENTIFICATION (GPM) RSD IDENTIFICATION (L/S)

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OPTIONAL GEARBOX COOLER

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OPTIONAL GEARBOX COOLER

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