Hale Type DSD Series Pump Installation with "LG/XG" Gearbox

**Flange Options for 'K' Port**

See Table "D".

- **8.00** Centerline of Discharge
- **7.00** Discharge Connection
- **17** [0.69] Holes on "O" Vicatagule Connection for Style 37 Coupling

Additional Notes:

1. Priming System, Discharge & Suction Valves are available.
2. Apparatus Builder to connect one end of gear box to pump suction and other end to pump discharge.
3. Use recommended hydraulic fluid for spicer 1600, 1700 and 1800 series flanges.
4. Use propylene glycol or silicon oil 70-80° F.
5. Use proper end seal head as specified by Drivesline manufacturer.
6. Do not place threaded portion of fastener in shear.
7. Use minimum SAE Grade 5 Screws.
8. Do not use other drawings or models without written approval.

**Note 2:** For 'K' Port Flange Options

**Table "C" - Options and Accessories**

- **SPV Priming Valve**
- **ESP Priming Pump**
- **VPS Power Shift (See PL533)**
- **VPS Control Valve (See PL595)**

**Table "D" - 'K' Port Flange Details**

- **Opt 1:** 3/4 NPT Plug
- **Opt 2:** 3/8-16 Jack Screw Holes
- **Opt 3:** 3/8 NPT Plug

**Table "E" - Gear Ratios & Pump Dimensions**

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>Gear Ratio</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>XG</td>
<td>7.50</td>
<td>138</td>
<td>105</td>
<td>5.44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LG</td>
<td>47.00</td>
<td>47</td>
<td>51</td>
<td>5.16</td>
<td>1.50</td>
<td></td>
</tr>
</tbody>
</table>

**Table "F" - Maximum Input RPM**

**Table "G" - Maximum GPM RPM**

- **DSD-15L 3800**
- **DSD-19X 3060**
- **DSD-17L 3500**
- **DSD-21X 2810**
- **DSD-19L 3220**
- **DSD-23X 2580**
- **DSD-21L 2920**
- **DSD-25X 2350**
- **DSD-23L 2630**
- **DSD-28X 2120**

**Note 4:** SEE NOTE 4

**Note 5:** See Tailor Stock Chart F-72 for Additional Data.

**Note 6:** Use SAE EP-90 or 80W-90 Oil or 75-140W Synthetic API GL-5 Oil, and Fill no later than 72 hours after pump is placed in service.

**Note 7:** Use SRV Rawhide Spirals.

**Note 8:** Use Minimum SAE Grade 5 Screws. Maximum Gearbox Shaft Torque (Road) is 1800 Nm (250 ft-lb).

**Note 9:** Use proper hydraulic fluid as specified by Drivesline manufacturer.

**Note 10:** Do not place threaded portion of fastener in shear.

**Note 11:** Do not use other drawings or models without written approval.

**Note 12:** Use Minimum SAE Grade 5 Screws. Maximum Gearbox Shaft Torque (Road) is 1800 Nm (250 ft-lb).

**Note 13:** Use proper hydraulic fluid as specified by Drivesline manufacturer.

**Note 14:** Do not place threaded portion of fastener in shear.

**Note 15:** Do not use other drawings or models without written approval.
HALE TYPE DSD SERIES PUMP INSTALLATION
WITH "LG/XG" GEARBOX

VOLUTE POSITIONS

POSITION 21
(STANDARD)

POSITION 22

POSITION 24

POSITION 25

POSITION 26

POSITION 27

POSITION 28

POSITION 29

POSITION 30

POSITION 31

POSITION 32

POSITION 33

POSITION 34

POSITION 35

POSITION 36

METRIC SUCTION HEAD OPTION

METRIC SUCTION HEAD
WITH RAM'S HORN OPTION

(8) M12 X 1.75
MOUNTING HOLES ON A
236 [9.29] BOLT CIRCLE

2X SLIP WELD
CONNECTION FOR 6" PIPE

SURFACE TEXTURE IN μm Ra

REMOVE ALL SHARP EDGES, 0.25MAX

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°

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PL916