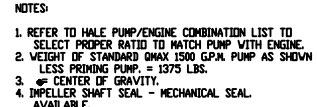
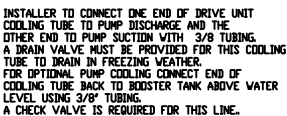
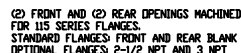


| OPTIONAL DISCHARGE FLANGES |                         |                |  |
|----------------------------|-------------------------|----------------|--|
| STANDARD                   | OPTIONAL                | STD. CAST HOLE |  |
| A BLANK                    | 2-1/2, 3 & 4 NPT        | 4              |  |
| B BLANK                    | 1-1/4, 2, 2-1/2 & 3 NPT | 3              |  |
| C BLANK                    | 2-1/2, 3 & 4 NPT        | 3              |  |
| D ———                      | 2-1/2 & 3 NPT           | CAST SOLID     |  |
| E ———                      | 2-1/2 & 3 NPT           | CAST SOLID     |  |
| F ———                      | 2-1/2 & 3 NPT           | CAST SOLID     |  |
| G ———                      | 2-1/2 & 3 NPT           | CAST SOLID     |  |
| H BLANK                    | 2-1/2, 3 & 4 NPT        | 3              |  |



| PUMP MODEL | GEAR RATIO | GEARBOX TYPE ** | DIMENSIONS |       |
|------------|------------|-----------------|------------|-------|
|            |            |                 | A Ø        | B     |
| QMAX*-23   | 2.30       | LONG (Lk)       | 12.28      | 19.84 |
|            |            | EXTRA LONG (OK) | 14.98      | 22.14 |
| QMAX*-21   | 2.04       | LONG (Lk)       | 12.59      | 19.84 |
|            |            | EXTRA LONG (OK) | 14.89      | 22.14 |
| QMAX*-19   | 1.89       | LONG (Lk)       | 12.78      | 19.84 |
|            |            | EXTRA LONG (OK) | 15.08      | 22.14 |
| QMAX*-17   | 1.71       | LONG (Lk)       | 14.92      | 19.84 |
|            |            | EXTRA LONG (OK) | 15.26      | 22.14 |
| QMAX*-16   | 1.60       | LONG (Lk)       | 13.15      | 19.84 |
|            |            | EXTRA LONG (OK) | 15.45      | 22.14 |

\* RATED CAPACITY 1000,1250,1500, 1750, 2000, 2250 GPM

\*\* THE (Lk) GEARBOX IS STANDARD AND WILL BE SUPPLIED UNLESS OTHERWISE SPECIFIED.

EXAMPLE: THE MODEL NUMBER FOR A 1500 GPM RATED PUMP WITH  
A 2.30 GEAR RATIO AND A SHORT GEARBOX WOULD BE QMAX150-23LK.

DRIVE LINE RECOMMENDATIONS

APPARATUS BUILDER SUPPLIED DRIVELINES SHALL BE OF APPROPRIATE SIZE TO MATCH THE CHASSIS AND PUMP REQUIREMENTS WITH INDIVIDUAL JOINT CANCELLATION AND PHASING BEFORE AND AFTER THE PUMP. DRIVE SHAFTS (INCLUDING YOKES) SHALL NOT EXCEED THE FOLLOWING DIMENSIONS 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.

WARNING

| SEE HALE TORQUE LWDI CHART F-72 FOR ADDITIONAL DATA.                                                                  |           |           |           |           |           |           |
|-----------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| THIS PRODUCT AND ITS COMPONENTS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS AND OTHER PATENTS PENDING. |           |           |           |           |           |           |
| 950,756                                                                                                               | 3,159,559 | 3,726,308 | 3,859,703 | 4,089,345 | 4,311,440 | 4,587,862 |
| 3,116,694                                                                                                             | 3,500,961 | 3,801,224 | 3,916,681 | 4,209,282 | 4,337,830 | 4,653,978 |

|                                                                                                                       |           |           |           |           |           |           |  |
|-----------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| SEE HALE TORQUE LWDI CHART F-72 FOR ADDITIONAL DATA.                                                                  |           |           |           |           |           |           |  |
| THIS PRODUCT AND ITS COMPONENTS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS AND OTHER PATENTS PENDING. |           |           |           |           |           |           |  |
| 950,756                                                                                                               | 3,159,559 | 3,726,308 | 3,859,703 | 4,089,345 | 4,311,440 | 4,587,862 |  |
| 3,116,694                                                                                                             | 3,500,961 | 3,801,224 | 3,916,681 | 4,209,282 | 4,337,830 | 4,653,978 |  |