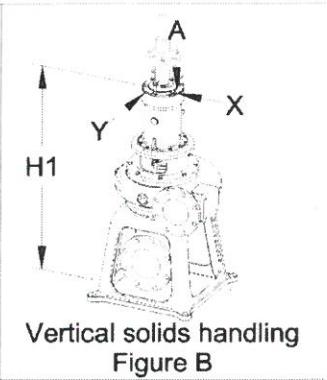
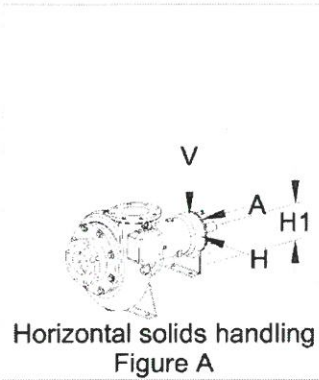
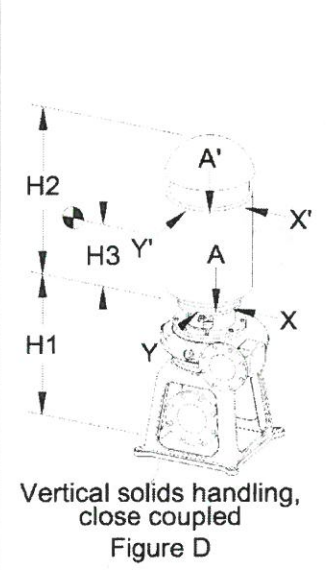
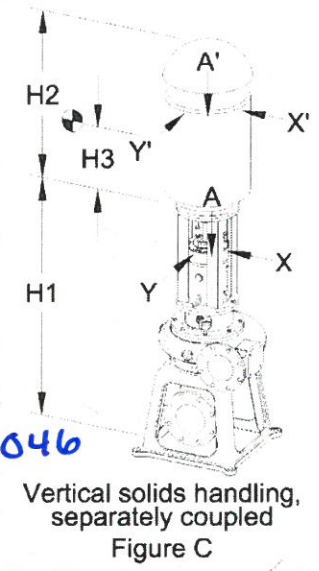


Mono-Vane Impeller Vibration Data

| Subject Pump | | Driver | |
|-------------------------|----------|-----------------------------|-----------|
| Manufacturer | Pentair | Manufacturer | GE |
| Pump Type Figure | A | Serial Number | LLFT30650 |
| Model | 4"BS422K | Driver Power (HP) | 2 |
| Size & Type | | Frame Size | 213T |
| Serial Number | | Driver Weight (Lbs) | 200 |
| *BEP Rate of Flow (GPM) | 300 | Driver Mounting Bolt Circle | |
| *BEP Head (Feet) | 15 | H1 (Inch) | 8.5 |
| Rated Speed (RPM) | 880 | H2 / H3 (Inch) | / |



| Test Conditions | |
|---|---------------------------------|
| Test Location | KC, KS Kansas |
| Discharge Pressure (PSI) | |
| Suction Pressure (PSI) | |
| Pumped Liquid | Water |
| Liquid Specific Gravity | 1.0 |
| Liquid Viscosity | 1 cP |
| Liquid Temperature | 70°F |
| Vibration Instrument Model | Epi 9080 1739T0046 |
| Vibration Instrument Calibration Date | |
| Vibration Instrument Mounting (handheld, magnet, etc) | Magnet |
| Pump Operating Ranges AOR / POR | AOR 100-470 gpm POR 170-390 gpm |



| Pump Vibration Data | | | | | Pump Vibration ¹ - Unfiltered (Inch/Second RMS) ² | | | Driver Vibration ¹ - Unfiltered (Inch/Second (RMS)) ² | | |
|---------------------|-------------|-------------------------|---|--|---|------------|------------|---|-------------|-------------|
| Data Point | Speed (RPM) | Pump Rate of Flow (GPM) | Suction Pressure (PSIG) PSIG | Pump Discharge Pressure (PSIG) PSIG | Position X | Position Y | Position A | Position X' | Position Y' | Position A' |
| 1 | 893 | 0 | 2.04 | 24.67 | .226 | .176 | .252 | | | |
| 2 | 892 | 68 | 2.09 | 20.98 | .207 | .151 | .282 | | | |
| 3 | 892 | 103 | 2.12 | 19.67 | .241 | .157 | .146 | | | |
| 4 | 892 | 153 | 2.32 | 17.10 | .140 | .111 | .118 | | | |
| 5 | 892 | 175 | 2.53 | 16.33 | .127 | .101 | .104 | | | |
| 6 | 893 | 254 | 2.96 | 13.36 | .096 | .099 | .098 | | | |
| 7 | 893 | 318 | 3.55 | 10.89 | .091 | .096 | .092 | | | |
| 8 | 892 | 349 | 3.93 | 9.57 | .090 | .105 | .072 | | | |
| 9 | 892 | 451 | 5.31 | 4.19 | .077 | .112 | .096 | | | |
| 10 | 893 | 480 | 5.68 | 2.13 | .086 | .103 | .103 | | | |

¹Preferred frequency range is 0 – 1000 Hz for the unfiltered vibration measurement.
²For equipment operating 600 RPM or less, also record vibration in displacement (mils peak-to-peak).
 *BEP = Best Efficiency Point. Attach pump curve if available. Note additional comments below:

Tested By: Mike Schmidt Date: 1/10/2018