

AVAILABLE MOUNTING CONFIGURATIONS

3STH-F FRAME MOUNT
3STH-EM ENGINE MOUNT

OPERATING LEVELS

| | | |
|------------------------|----------|-------------------------|
| MIN FLOW | 300 GPM | 68.1 m ³ /h |
| MAX FLOW | 1050 GPM | 238.5 m ³ /h |
| DISCHARGE SIZE | 3" | 75 mm |
| SUCTION SIZE | 4" | 100 mm |
| SOLIDS HANDLING | 2.50" | 63.5 mm |
| MAX SPEED | 2200 RPM | 2200 RPM |
| SHUT-OFF HEAD | 277' | 84.4 m |
| BEP HEAD | 205' | 62.5 m |
| BEP FLOW | 860 GPM | 195.3 m ³ /h |
| BEP EFFICIENCY | 59% | 59% |



A typical picture of the pump is shown. Please contact Gemstone Pump Company for further details. All information is approximate and for general guidance only.

HIGH-HEAD SELF-PRIMER

Gemstone's self-priming pump, with industry-leading efficiency, runs several percentage points higher than other manufacturers. Features patented Cycloseal[®] system and uniquely designed volute for best performance, with a 4" suction and 3" discharge.

| PARTS | STANDARD MATERIAL (ALL IRON) |
|-------------------------|---|
| VOLUTE CASING | DUCTILE IRON, ASTM A536, 65-45-12 |
| IMPELLER | DUCTILE IRON, ASTM A536, 100-70-03 |
| IMPELLER SCREW | 304 STAINLESS STEEL |
| BACKPLATE/BACKET | DUCTILE IRON, ASTM A536, 65-45-12 |
| WEAR PLATE | MILD STEEL |
| BEARING FRAME | DUCTILE IRON, ASTM A536 |
| SHAFT | 17-4 PH STAINLESS STEEL |
| SHAFT SLEEVE | 304 STAINLESS STEEL |
| FASTENERS | GRADE 5 STEEL |
| MECHANICAL SEAL | SILICON CARBIDE vs. SILICON CARBIDE, TYPE 2 |

- FIVE-YEAR warranty •
- Optional self-cleaning wear plate •
- Modular bearing frame •
- Gemstone's Cycloseal[®] with type 2 seal •
- Dual protection of bearings with external seal leakage monitor (vent to atmosphere)
- High Heads up to 277'

- High-efficiency design
- Oversized oil reservoir for better cooling
- Replaceable shaft sleeve
- Heavy-duty ductile iron construction
- Designed for SAE conversion
- High RPM Capability



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



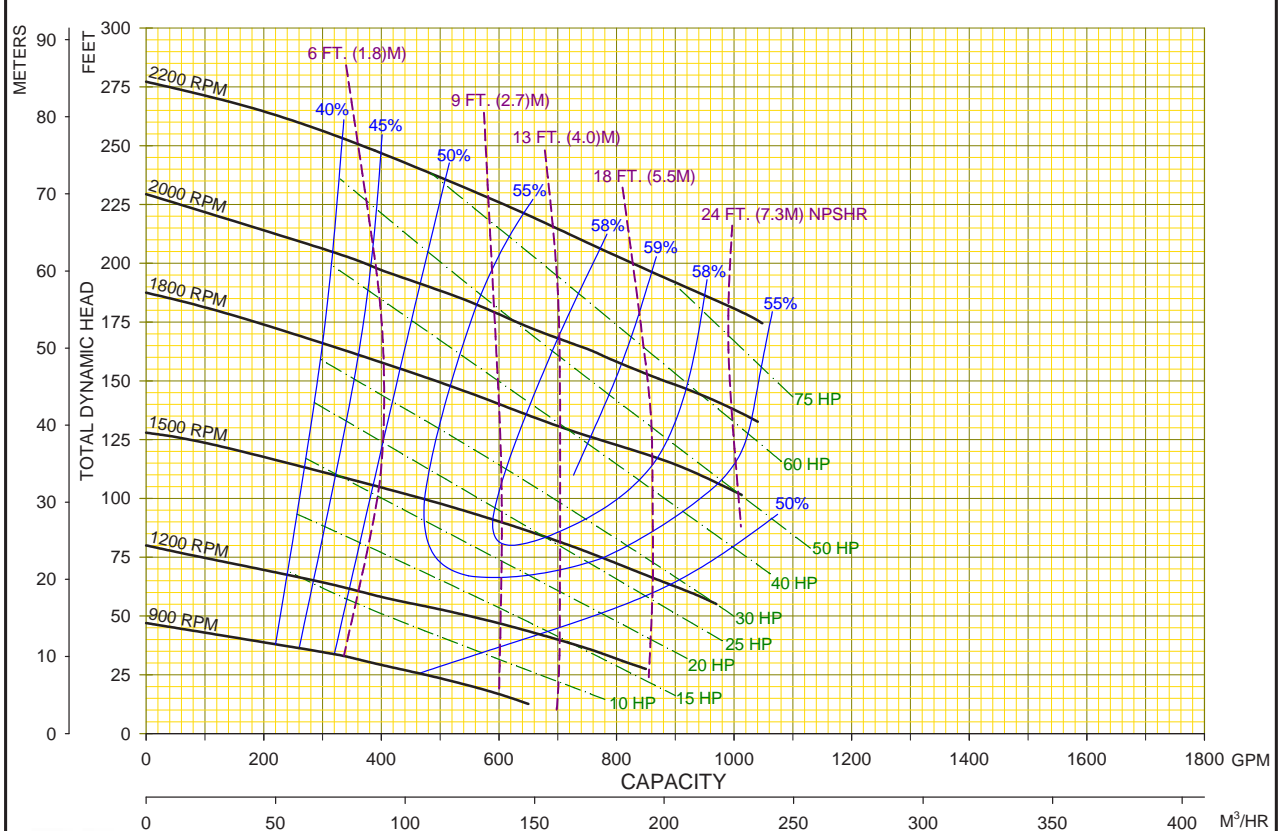
REFRIGERATION



RENTAL

3STH (VARIOUS RPM)

| | | | | | | | | | |
|--|---------|---------------|-----------|--------|-------------|----------------|---------|-----------|-----------|
| Performances shown are for S.G. 1.0 60°F water, close-coupled configuration. Other mounting styles or S.G. may require curve adjustments. | Speed | Impeller Dia. | Style | Volute | Solids Dia. | N _s | Suction | Discharge | No. Vanes |
| | VARIOUS | 12.38" | SEMI-OPEN | SINGLE | 2.5" | 1230 | 4" | 3" | 2 |



| | | | | | |
|-----------------------|----|----------|-----|--------------------|----------------------------|
| Gemstone Pump Company | 00 | 07/31/14 | CTG | MODEL : 3STH | CURVE NO: 3STHVA |
| | 00 | 07/31/14 | CTG | TYPE : SELF-PRIMER | |

