

### AVAILABLE MOUNTING CONFIGURATIONS

4STH-F FRAME MOUNT  
4STH-EM ENGINE MOUNT

### OPERATING LEVELS

<b>MIN FLOW</b>	175 GPM	39.75 m <sup>3</sup> /h
<b>MAX FLOW</b>	2000 GPM	454.25 m <sup>3</sup> /h
<b>DISCHARGE SIZE</b>	4"	102 mm
<b>SUCTION SIZE</b>	6"	152 mm
<b>SOLIDS HANDLING</b>	3"	76 mm
<b>MAX SPEED</b>	2100 RPM	2100 RPM
<b>SHUT-OFF HEAD</b>	225'	68.58 m
<b>BEP HEAD</b>	156'	47.55 m
<b>BEP FLOW</b>	1325 GPM	300.94 m <sup>3</sup> /h
<b>BEP PERCENT</b>	60%	60%



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<sup>®</sup> system and uniquely designed volute for best performance, with a 6" suction and 4" discharge.

- 5-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)
- Retrofit-able with existing installations
- High Efficiency Design
- Oversized oil reservoir for better cooling
- Replaceable shaft sleeve
- Heavy-duty ductile iron construction
- Designed for SAE conversion
- High RPM Capability

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



AGRICULTURE



FOOD



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MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



RENTAL

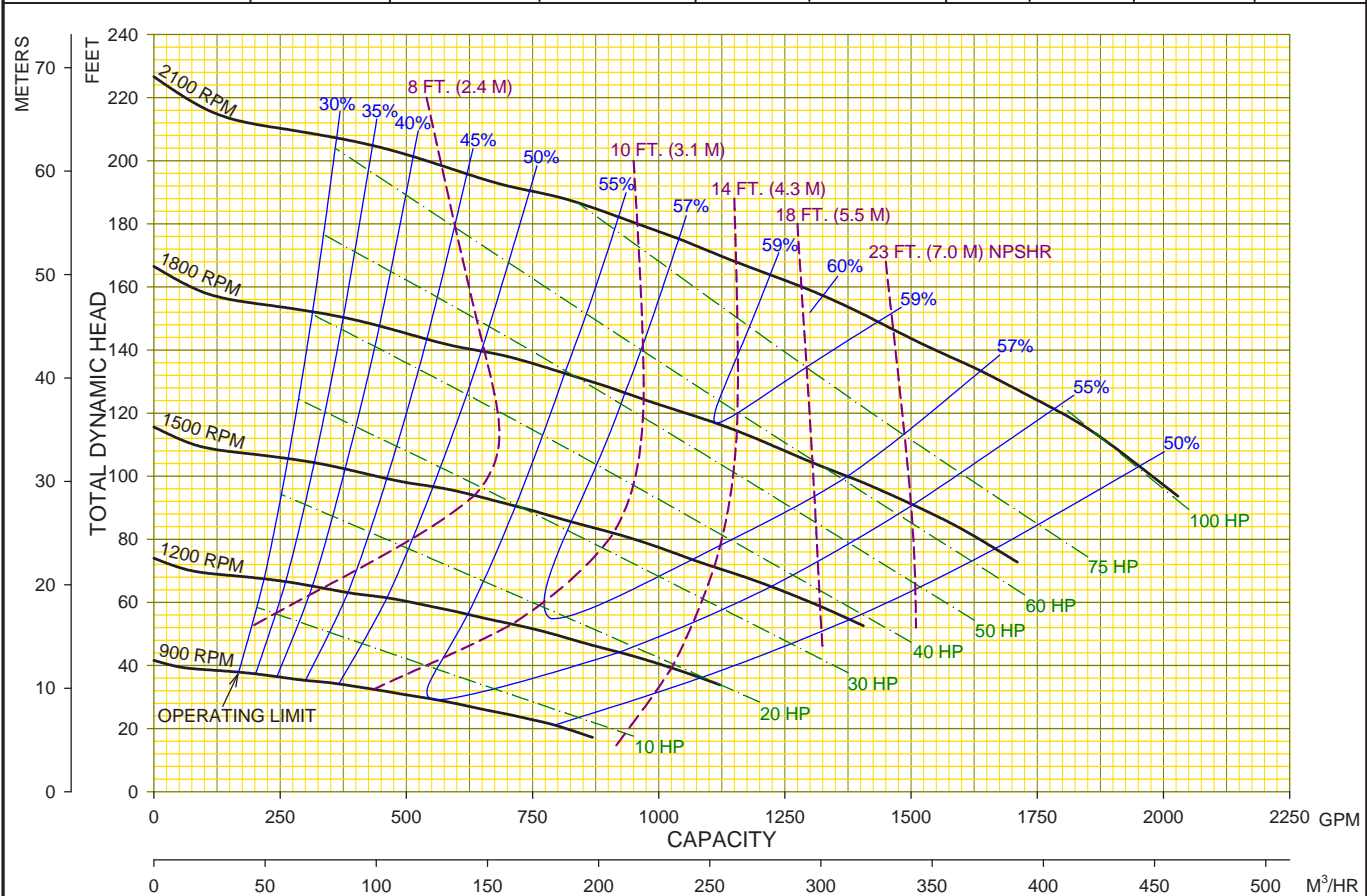


# DATA SHEET

# 4STH

Performances shown are for S.G. 1.0  
60°F water, frame mounted configuration  
with cyclo seal. Other mounting styles or  
S.G. may require curve adjustments.

Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
VARIOUS	12.38"	SEMI-OPEN	SINGLE	3"	1715	6"	4"	2



Gemstone Pump Company	00	09/08/14	CTG	MODEL : 4STH	CURVE NO: <b>4STHVA</b>
	00	09/08/14	CTG	TYPE :SELF-PRIMER	