

**AVAILABLE MOUNTING CONFIGURATIONS**

2STH-F FRAME MOUNT  
2STH-EM ENGINE MOUNT

**OPERATING LEVELS**

<b>MIN FLOW</b>	50 GPM	11.5 m <sup>3</sup> /h
<b>MAX FLOW</b>	490 GPM	112.7 m <sup>3</sup> /h
<b>DISCHARGE SIZE</b>	2"	50 mm
<b>SUCTION SIZE</b>	3"	75 mm
<b>SOLIDS HANDLING</b>	1.5"	3.8 mm
<b>MAX SPEED</b>	2950 RPM	2950 RPM
<b>SHUT-OFF HEAD</b>	188'	57.3 m
<b>BEP HEAD</b>	132'	40.2 m
<b>BEP FLOW</b>	320 GPM	73.6 m <sup>3</sup> /h
<b>BEP PERCENT</b>	49%	49%



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

<b>PARTS</b>	<b>STANDARD MATERIAL (ALL IRON)</b>
<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

**HIGH-HEAD SELF-PRIMER**

Gemstone's self-priming pump, with industry-leading efficiency, runs several efficiency points higher than other manufacturers. Features patented Cycloseal<sup>®</sup> system and uniquely designed volute for best performance, with a 3" suction and 2" discharge.

- FIVE-YEAR warranty •
- Optional self-cleaning wear plate •
- Modular bearing frame •
- Gemstone's Cycloseal<sup>®</sup> with type 2 seal •
- Dual protection of bearings with external seal leakage monitor (vent to atmosphere)
- High Heads up to 180'
- 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



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MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



RENTAL

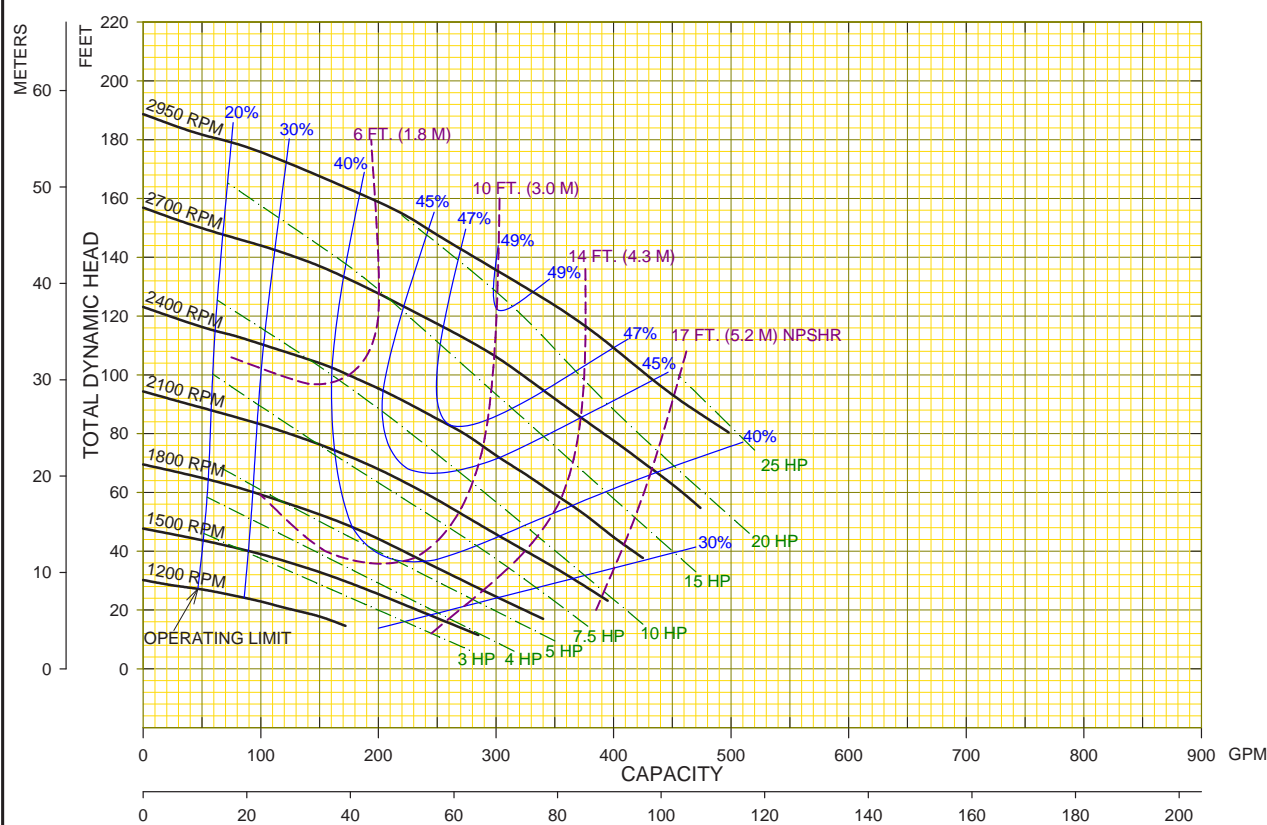


# DATA SHEET

# 2STH

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 <sub>s</sub>	Suction	Discharge	No. Vanes
VARIOUS	8.00"	SEMI-OPEN	SINGLE	1.5"	1330	3"	2"	2



Gemstone Pump Company	02	03/23/15	CTG	MODEL : 2STH	CURVE NO.:
	00	01/14/14	AE	TYPE :SELF PRIMING	2STHVA

