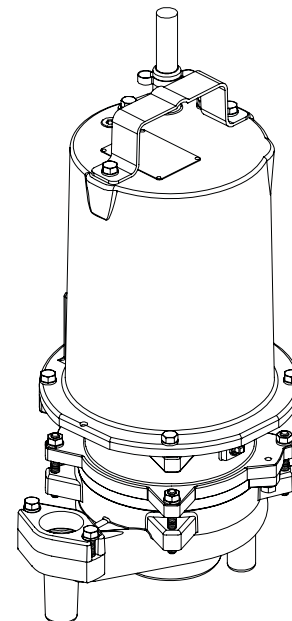


Submersible Grinder Pumps

Specifications:

DISCHARGE	1¼" NPT, Vertical, Bolt-on Flange
LIQUID TEMPERATURE	160°F (71°C) Intermittent
VOLUTE	Cast Iron ASTM A-48, Class 30.
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30.
SEAL PLATE	Cast Iron ASTM A-48, Class 30.
IMPELLER: <i>Design</i>	12 Vane, Vortex, With Pump Out Vanes On Back Side. Dynamically Balanced, ISO G6.3.
<i>Material</i>	Cast Iron
SHREDDING RING	Hardened 440C Stainless Steel Rockwell® C-55.
CUTTER	Hardened 440C Stainless Steel, Rockwell® C-55.
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel.
SEAL: <i>Design</i>	Tandem Mechanical, Oil Filled Reservoir.
<i>Material</i>	Rotating Faces - Carbon Stationary Faces - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	30 ft. (9.1 m) Std. Cord. Custom Molded Quick Connect, for Sealing and Strain Relief
CORD	CSA/UL Approved 12/4 Type SOW.
UPPER BEARING:	
<i>Design</i>	Single Row, Ball, Oil Lubricated
<i>Load</i>	Radial
INTERMEDIATE BEARING:	
<i>Design</i>	Single Row, Ball, Oil Lubricated
<i>Load</i>	Radial & Thrust
LOWER BEARING:	
<i>Design</i>	Sleeve, Oil Lubrication:
<i>Load</i>	Radial
MOTOR: <i>Design</i>	NEMA L-Single Phase, (SGVF2022L, SGVH2022L, SGVF2002L or SGVH2002L, includes overload protection in the motor). NEMA B-Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction
<i>Insulation</i>	Class B.
SINGLE PHASE.....	Capacitor Start/Capacitor Run. Includes overload protection in the motor. Requires Barnes® Starter or Control Panel which Includes Capacitors, or Capacitor pack.
THREE PHASE.....	Dual Voltage 240/480; Requires Overload Protection to be Included in control panel.
OPTIONAL EQUIPMENT.....	Seal Material, Impeller Trims, Cord Length. Moisture Sensors, Moveable Fitting, Leg Kit P/N: 108339.
RECOMMENDED:	
<i>Accessories</i>	Break Away Fitting (BAF) Check Valve Control Panel
<i>Seal Kit PN</i>	113299
<i>Service Kit PN</i>	115946



Series: SGVF & SGVH
2HP, 3450RPM, 60Hz
High-Flow and High Head



NRTLIC

CSA 108 - File No. LR16567
UL 778
Models SGVF2002L and SGVH2002L
are NOT UL or CSA listed

Sample Specifications: Section 3 Page 8.

DESCRIPTION:

THE GRINDER PUMP IS DESIGNED TO
REDUCE DOMESTIC, COMMERCIAL,
INSTITUTIONAL AND LIGHT INDUSTRIAL
SEWAGE TO A FINELY GROUND SLURRY.

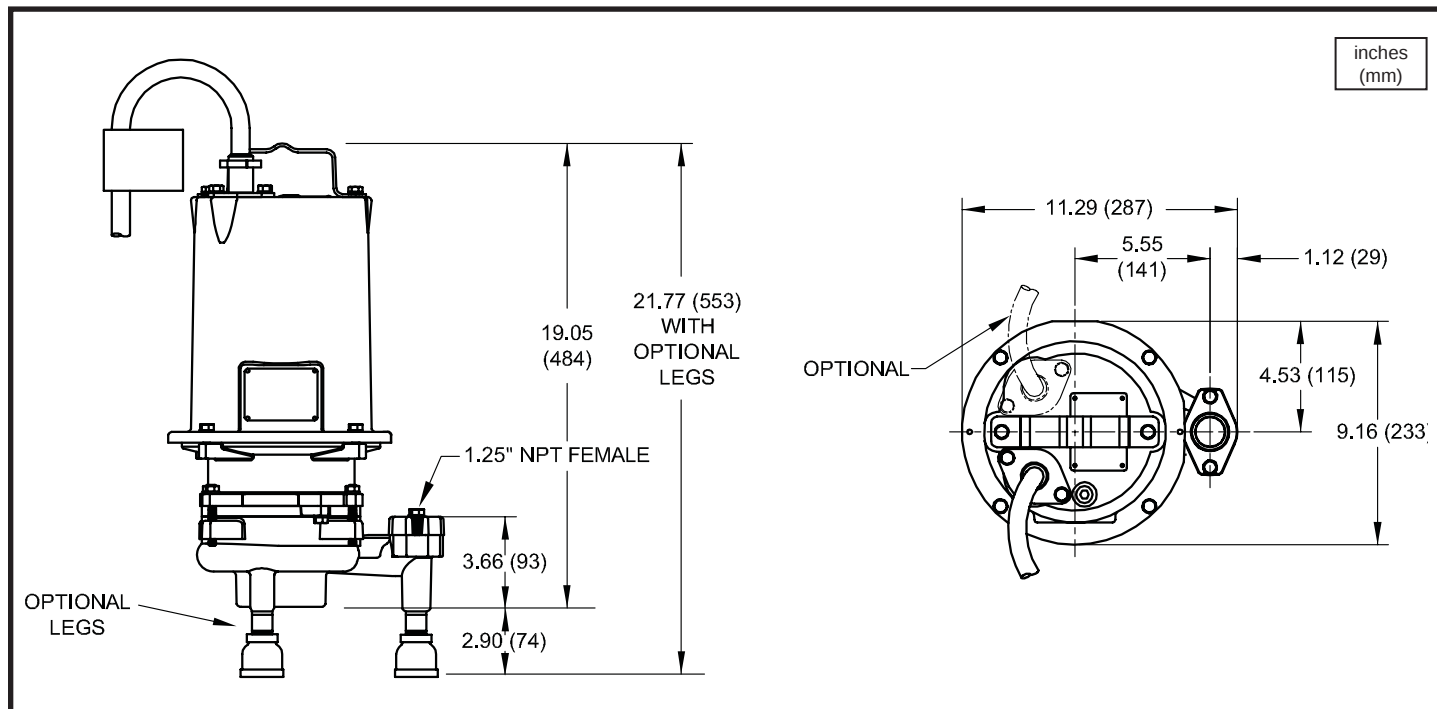
Series SGVF & SGVH

Recessed Vortex

BARNES®

www.cranepumps.com

Submersible Grinder Pumps



MODEL NO	PART NO	HP	VOLT	PH/Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D. ± .02 (.5) in (mm)
HIGH-FLOW											
SGVF2002L*	110614	2	200	1 / 60	3450	F	17.0	53.0	12/4	SOW	.67 (17)
SGVF2022L	110609	2	240	1 / 60	3450	H	15.0	53.8	12/4	SOW	.67 (17)
SGVF2062L	110610	2	200	3 / 60	3450	J	11.0	42.0	12/4	SOW	.67 (17)
SGVF2032L	110611	2	240	3 / 60	3450	J	9.0	36.0	12/4	SOW	.67 (17)
SGVF2042L	110612	2	480	3 / 60	3450	J	4.0	18.0	12/4	SOW	.67 (17)
SGVF2052L	110613	2	600	3 / 60	3450	J	3.2	14.4	12/4	SOW	.67 (17)
HIGH-HEAD											
SGVH2002L*	110620	2	200	1 / 60	3450	F	17.0	53.0	12/4	SOW	.67 (17)
SGVH2022L	110615	2	240	1 / 60	3450	H	15.0	53.8	12/4	SOW	.67 (17)
SGVH2062L	110616	2	200	3 / 60	3450	J	11.0	42.0	12/4	SOW	.67 (17)
SGVH2032L	110617	2	240	3 / 60	3450	J	9.0	36.0	12/4	SOW	.67 (17)
SGVH2042L	110618	2	480	3 / 60	3450	J	4.0	18.0	12/4	SOW	.67 (17)
SGVH2052L	110619	2	600	3 / 60	3450	J	3.2	14.4	12/4	SOW	.67 (17)

Optional - Temperature sensor cord for all models is 14/3 SOW, 0.55 (14mm) ± .02 (.51mm) O.D.

(Not used on SGVF2022L, SGVH2022L, SGVF2002L or SGVH2002L).

Optional - Moisture and Temperature sensor cord for all models is 18/5 SOW, 0.49 (12.4mm) ± .02 (.51mm) O.D., replaces Temperature sensor cord.

(*) This pump is **NOT** UL or CSA listed

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION 3B
PAGE 2
DATE 11/03

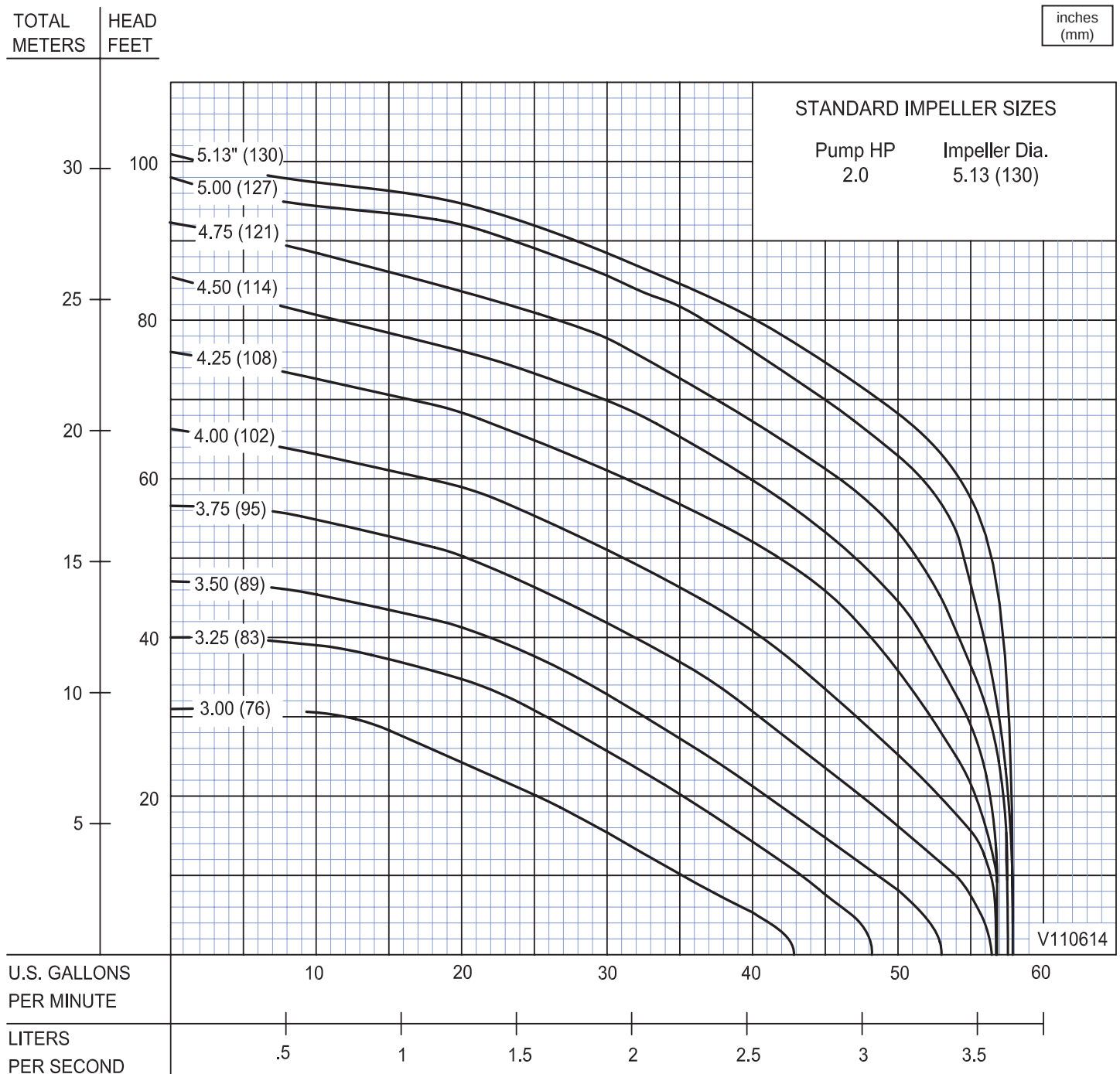
CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

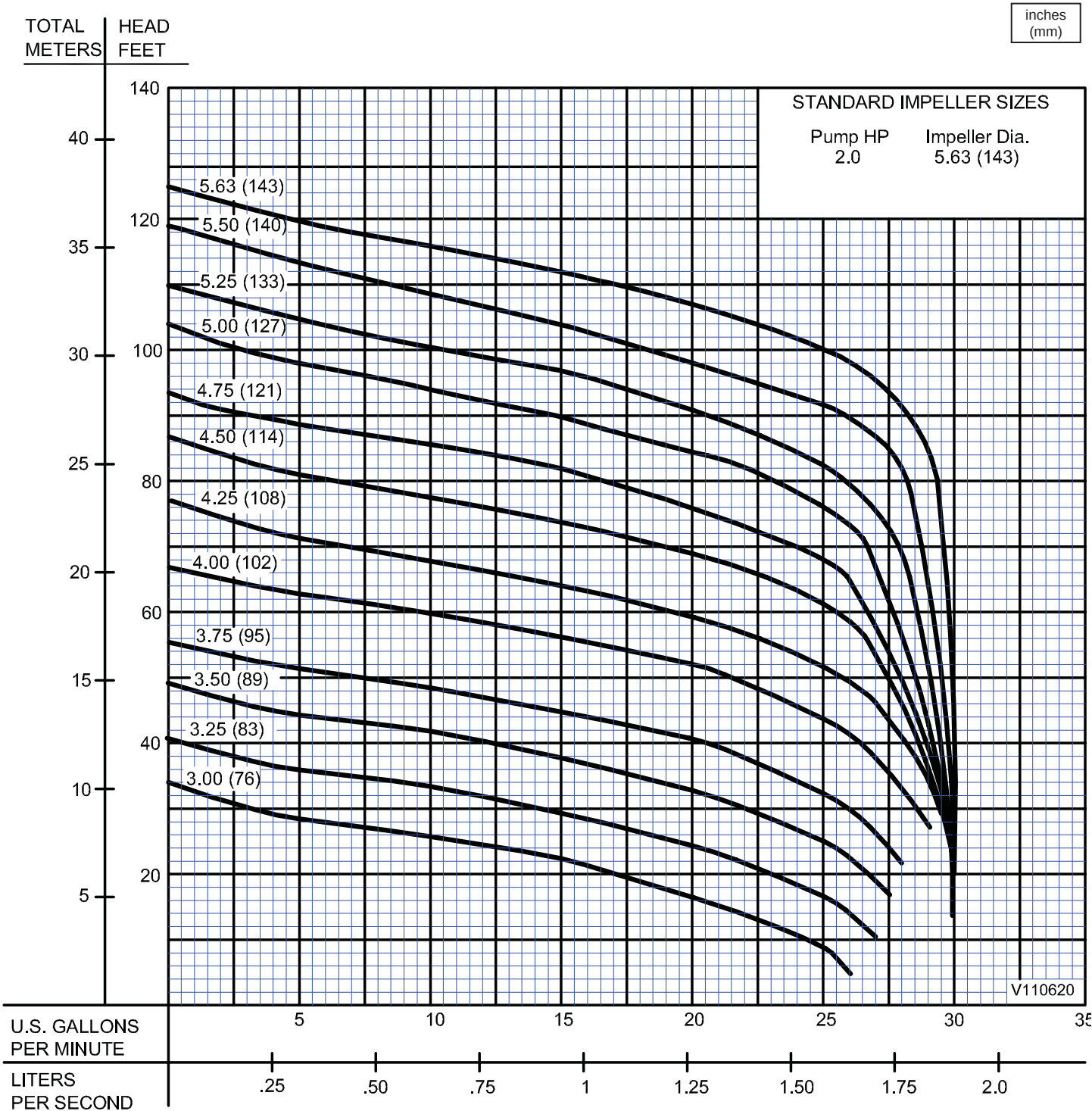
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Submersible Grinder Pumps



Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Grinder Pumps



U.S. GALLONS PER MINUTE

LITERS PER SECOND

Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance