

# Series RV

2" 1HP Grinder Pump  
Manual and Automatic

# BARNES®

www.cranepumps.com

## Submersible Grinder Pumps



**Series: RV**  
**1HP, 3450RPM, 60Hz**



### DESCRIPTION:

THE GRINDER PUMP IS DESIGNED TO REDUCE DOMESTIC SEWAGE TO A FINELY GROUND SLURRY.



**WARNING:**

CANCER AND REPRODUCTIVE HARM -  
WWW.P65WARNINGS.CA.GOV

### Specifications:

DISCHARGE	2" NPT
LIQUID TEMPERATURE	104°F (40°C) Continuous
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
IMPELLERS: <i>Design</i>	Semi-open, With Pump Out Vanes On Back Side. Dynamically Balanced, ISO G6.3.
<i>Material</i>	Bronze
CUTTER PLATE	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	Powder Coat
SEAL:	
<i>Design</i>	Single Mechanical
<i>Material</i>	Rotating Faces - Silicon-Carbide Stationary Faces - Silicon-Carbide Elastomer - Buna-N Hardware -300 Series Stainless
CORD ENTRY	20 ft.
CORD	<i>Manual</i> CSA/UL Approved, 14/3 Type SJTOW
UPPER BEARING:	
<i>Design</i>	Single Row, Ball
<i>Lubrication</i>	Oil
<i>Load</i>	Radial & Thrust
LOWER BEARING:	
<i>Design</i>	Single Row, Ball
<i>Lubrication</i>	Oil
<i>Load</i>	Radial & Thrust
MOTOR:	
<i>Design</i>	NEMA L-Single Phase Torque Curve, Oil-Filled, Squirrel Cage Induction (includes overload protection in the motor),
<i>Insulation</i>	Class F
SINGLE PHASE	Capacitor Start/Capacitor Run.
OPTIONAL EQUIPMENT	Float



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DATE 8/20

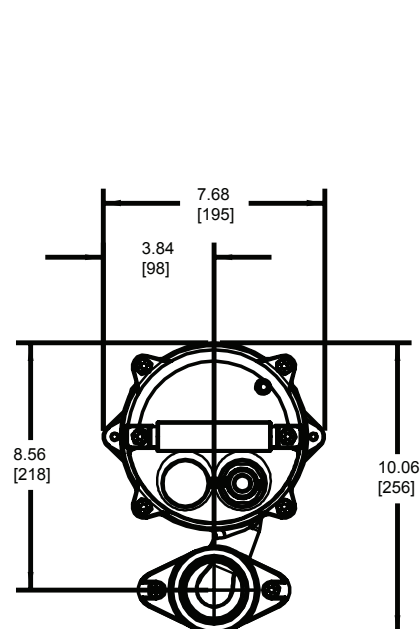
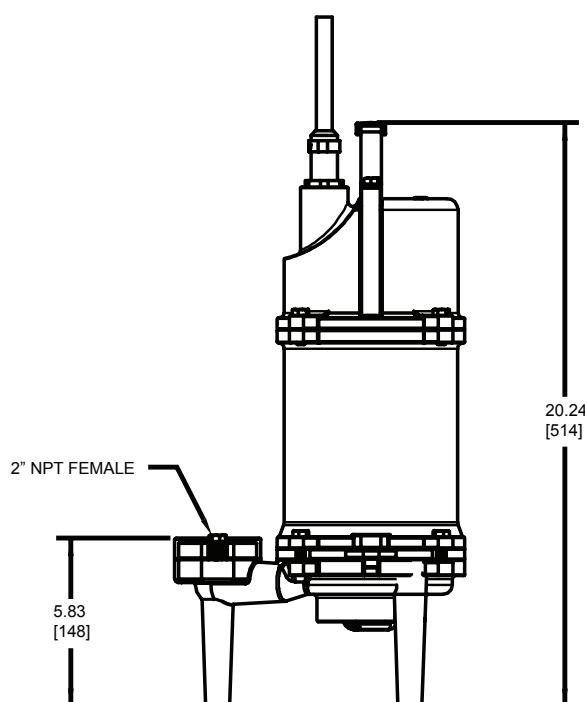
**CRANE**®

A Crane Co. Company

PUMPS & SYSTEMS

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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)
RV101	145469	1	115	1/60	3450	G	12	43.0	14/3	SJTOW	0.33in (8.38mm)
RV101A*	145469A										
RV102	145470	1	230	1/60	3450	G	6	31.40	14/3	SJTOW	0.33in (8.38mm)
RV102A*	145470A										

\* NOTE: Model is automatic and includes a float.

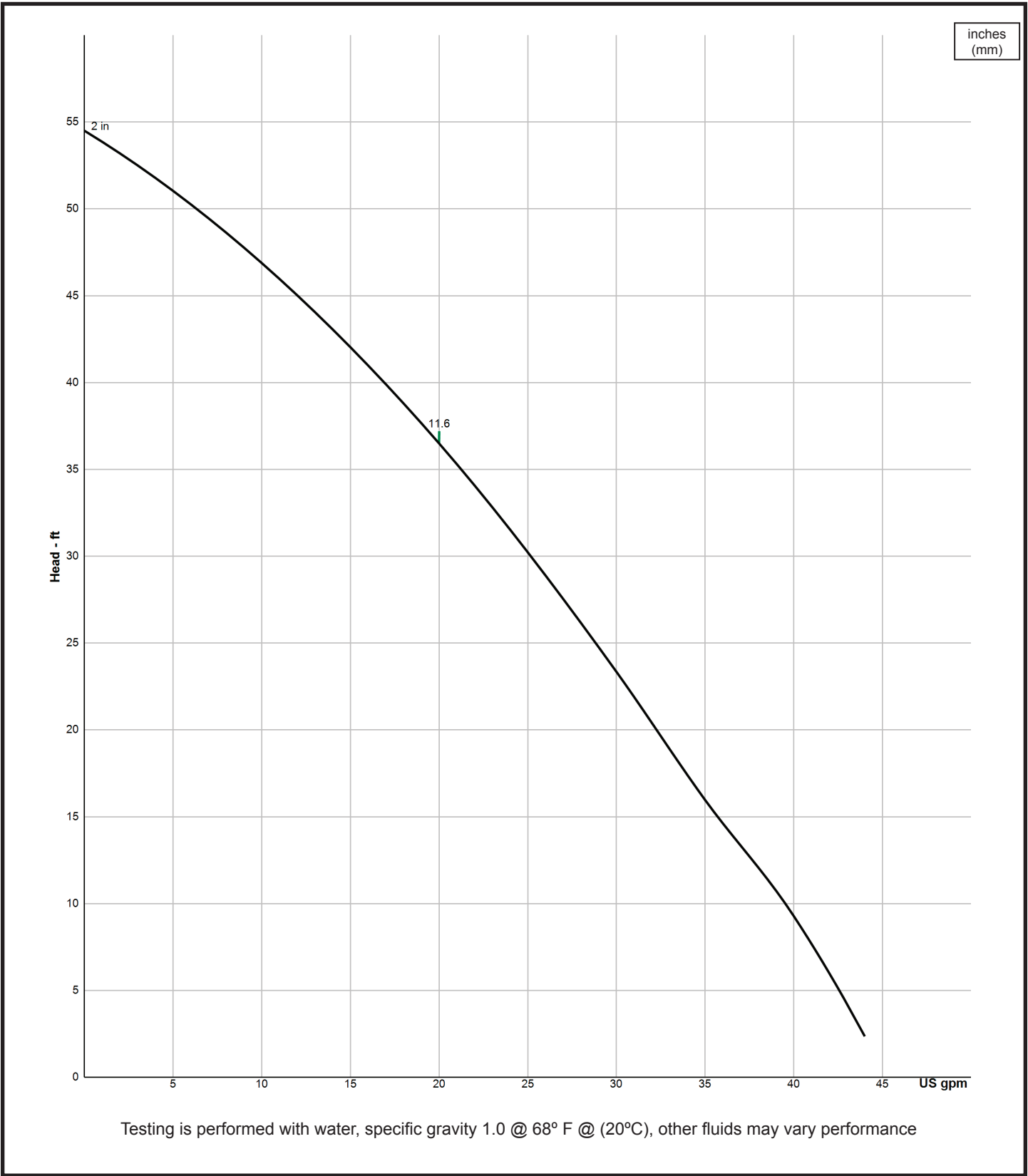
#### IMPORTANT !

- PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 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.

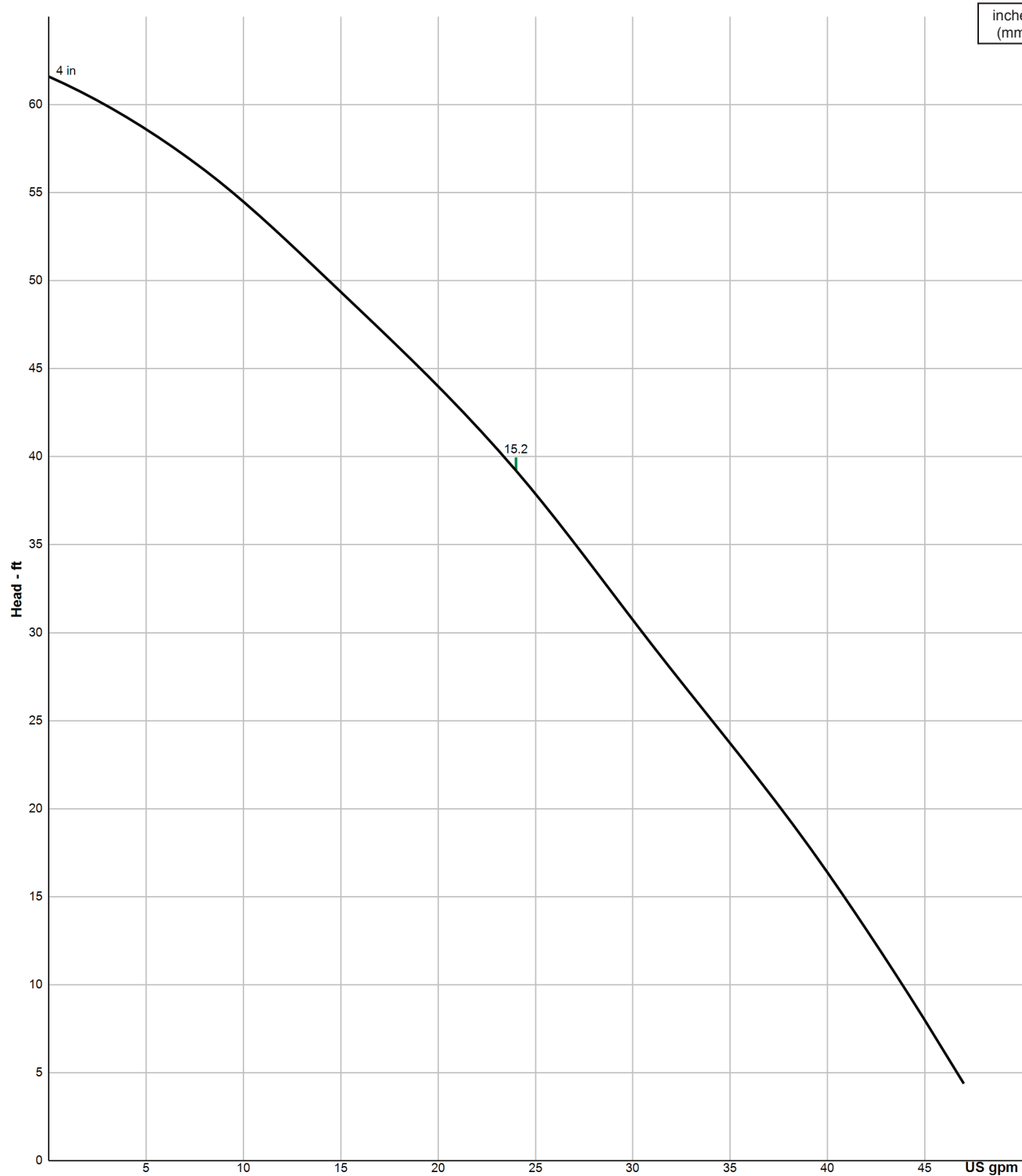
RV101

Performance Curve  
1HP, 3450RPM, 60Hz, 120V

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