

# Series BP-HT

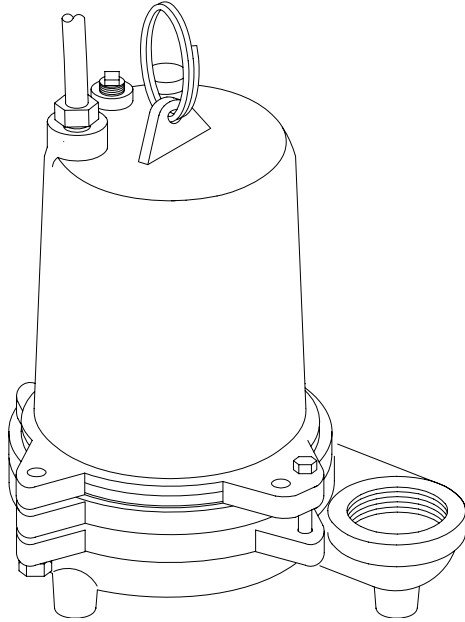
High Temperature - 3/4" Spherical Solids Handling  
Manual & Automatic - Submersible

# BARNES®

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## Submersible Effluent Pumps

### Specifications:



Series: BP314HT & BP324HT  
1/3HP, 1750RPM, 60Hz,  
Cast Iron & Bronze

- DISCHARGE .....2" NPT, Female, Vertical
- LIQUID TEMPERATURE .....200°F (93°C) Continuous
- VOLUTE .....(BP) Cast Iron, (BP-BR) Bronze
- MOTOR HOUSING .....(BP) Cast Iron, (BP-BR) Bronze
- SEAL PLATE .....(BP) Cast Iron, (BP-BR) Bronze
- IMPELLER: *Design* .....2 Vane open, Dynamically Balanced,  
ISO G6.3
- Material* .....Bronze 81-3-7-9
- SHAFT .....416 Stainless Steel
- SQUARE RINGS.....Buna-N
- HARDWARE .....300 Series Stainless Steel
- PAINT .....Air Dry Enamel
- SEAL:     *Design* .....Single Mechanical, Oil-Filled Reservoir,  
Secondary Exclusion Seal
- Material* .....Carbon/Ceramic/Buna-N
- CORD ENTRY .....15 ft. (5m) Quick Disconnect Cord with  
plug On 115 volt, Pressure Grommet for  
sealing and strain relief
- UPPER BEARING.....Single Row, Ball, Oil Lubricated
- LOWER BEARING.....Single Row, Ball, Oil Lubricated
- MOTOR, SINGLE PHASE .....Permanent Split Capacitor (PSC). Oil  
Filled. Includes Overload Protection in Motor
- Insulation*.....Class B
- LEVEL CONTROLS ..... "A" - High Temperature, Wide Angle,  
Mechanical, N/O, 15 ft (5m) cord with  
Piggy-Back Plug,  
"AU" - High Temperature, Wide Angle,  
Polypropylene, Mechanical, N/O Integral to  
pump. ON and OFF points are adjustable
- OPTIONAL EQUIPMENT .....Seal Material, Additional Cable

### RECOMMENDED:

- Accessories* .....Break Away Fitting (BAF)  
Check Valve  
Control Panel
- Seal Kit PN* .....085202
- Service Kit PN*.....085201



### DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN **HIGH TEMPERATURE** SEPTIC TANK/EFFLUENT APPLICATIONS.

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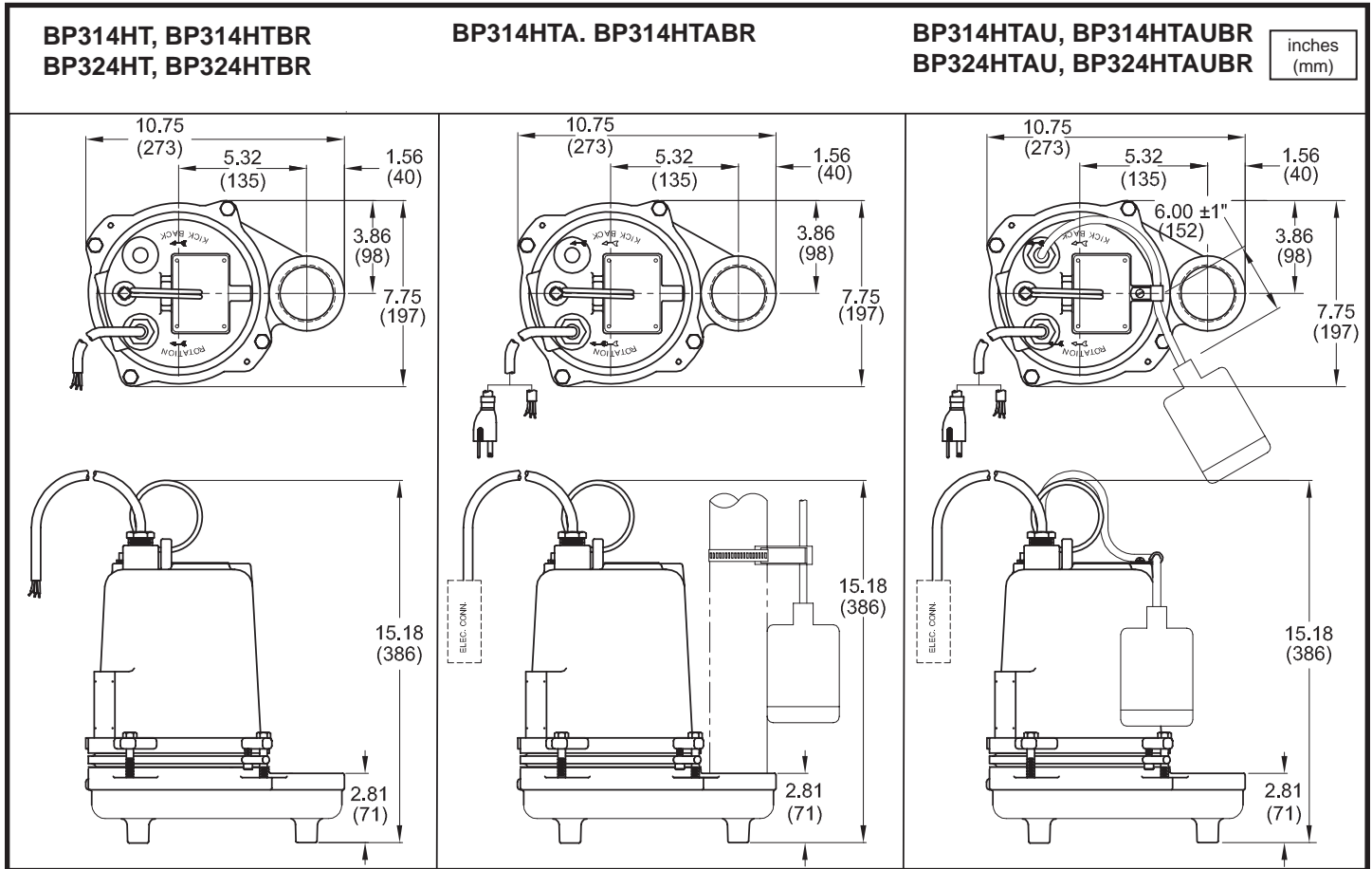


## PUMPS & SYSTEMS

A Crane Co. Company

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

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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 inch (mm)
BP314HT	096737	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTA	096738	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAU	096739	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTBR	096742	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTABR	096743	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAUBR	096744	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP324HT	096740	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAU	096741	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTBR	096745	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAUBR	096746	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)

Mechanical Switch on BP314HTA, cord 14/2, SJOOW, 0.370 (9.4MM) O.D., Piggy-Back Plug.  
Mechanical Switch on BP314HTAU & BP324HTAU, cord 14/2, SJOOW, 0.370 (9.4MM) O.D.

#### IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 3.) 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.
- 4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

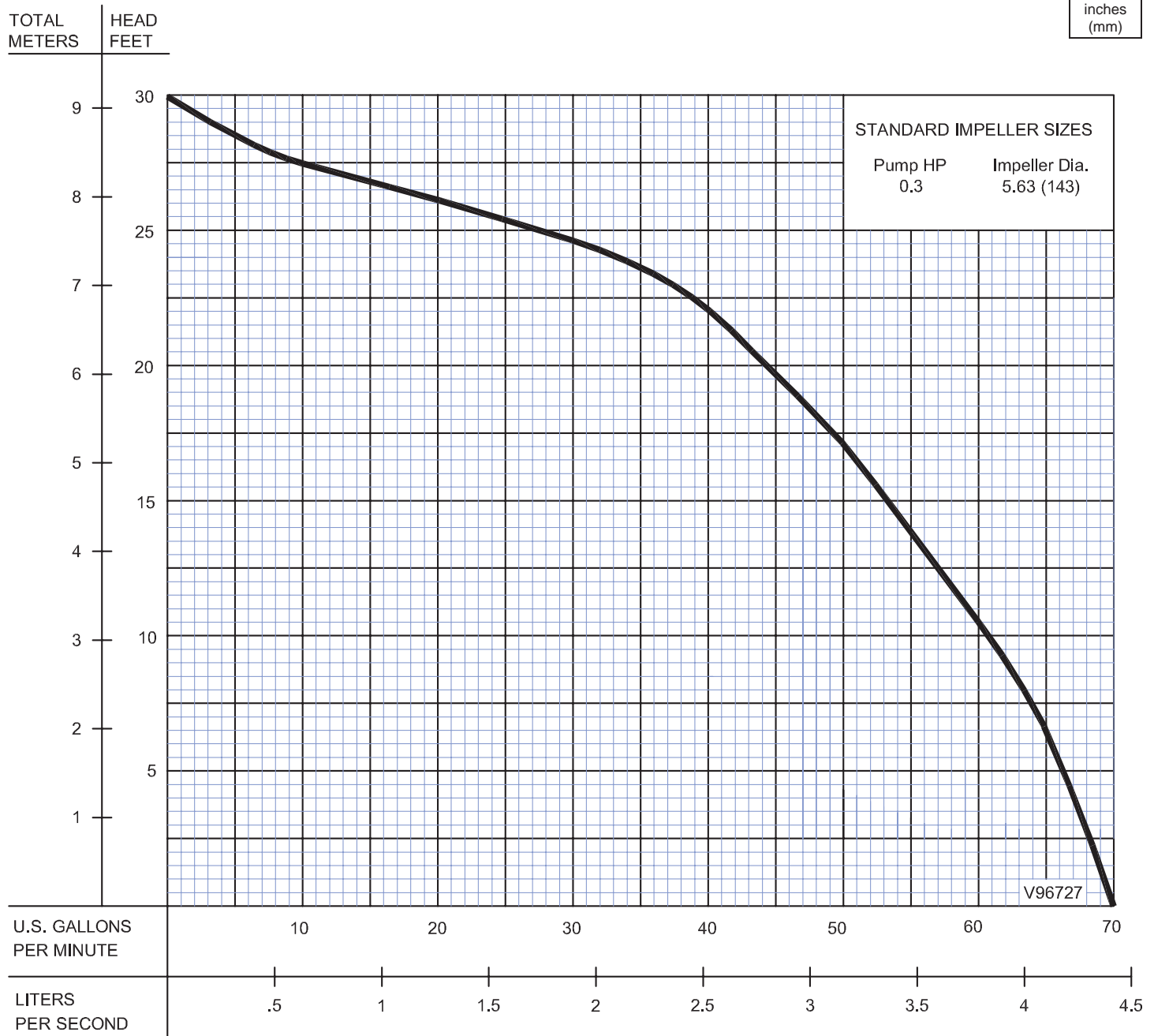
# Series BP-HT

Performance Curve  
1/3HP, 1750RPM, 60Hz

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

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