



FEATURES

- **Impeller:** Cast iron, enclosed, non-clog, dynamically balanced with pump out vanes for mechanical seal protection.
- **Casing:** Cast iron flanged volute type for maximum efficiency. Designed for easy installation on A10-20 slide rail.
- **Mechanical Seal:** Silicon Carbide vs. Silicon Carbide sealing faces for superior abrasive resistance, stainless steel metal parts, BUNA-N elastomers.
- **Shaft:** Corrosion resistant, 300 series stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.
- **Fasteners:** 300 series stainless steel.
- Capable of running dry without damage to components.
- Designed for continuous operation, when fully submerged.

 **RED JACKET SERIES**

2WS_BHF

SUBMERSIBLE SEWAGE PUMP WASTEWATER

Wastewater

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer
- Light industrial
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

SPECIFICATIONS

Pump

- Solids handling capabilities: 2" maximum
- Capacities: up to 220 GPM
- Total heads: up to 81 feet TDH
- Discharge size: 2" NPT threaded companion flange as standard. 3" option available but must be ordered separately. (Order no. A1-3)
- Temperature: 104°F (40°C) continuous
140°F (60°C) intermittent.

MOTORS

- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer. All ratings are within the working limits of the motor.

Class B insulation on 1/3-1 1/2 HP models.

Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/3 - 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

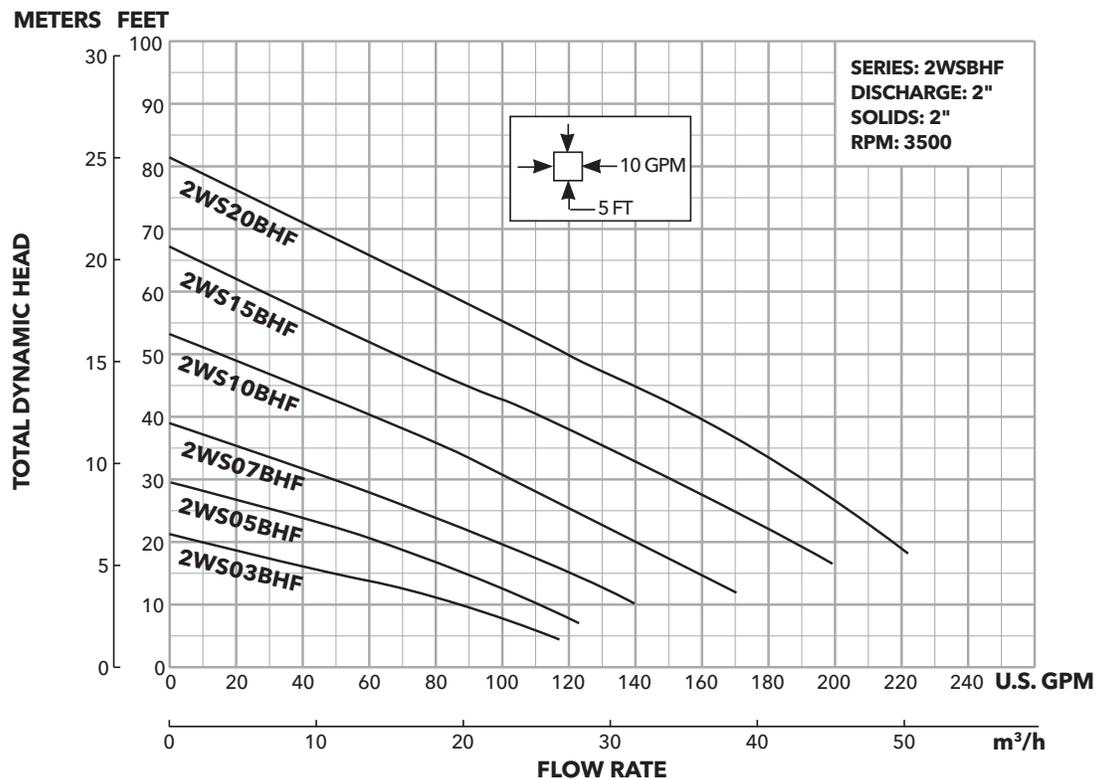
Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- **Motor Cover O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association
File #LR13533

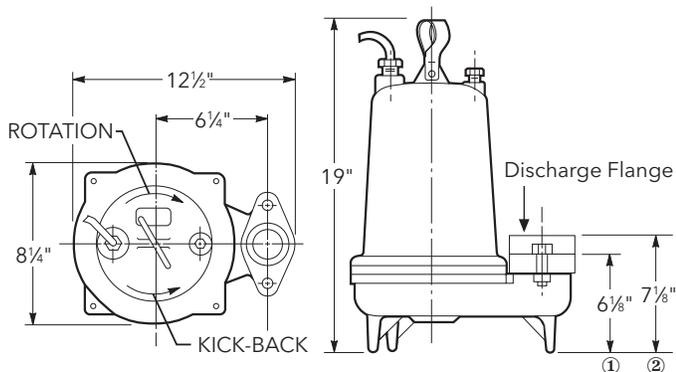


MOTOR AND MODEL INFORMATION

Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Motor Efficiency %	Resistance		
										Start	Line-Line	
2WS0311BHF	0.33	1	115	3500	2.94	12.4	46.0	M	54	7.5	1.0	
2WS0318BHF			208			6.8	31.0	K	68	9.7	2.4	
2WS0312BHF			230			6.2	34.5	M	53	9.6	4.0	
2WS0511BHF	0.5		1		115	3.19	14.5	46.0	M	54	7.5	1.0
2WS0518BHF					208		8.4	31.0	K	68	9.7	2.4
2WS0512BHF					230		7.6	34.5	M	53	9.6	4.0
2WS0538BHF		3	200		4.9		22.6	R	68	-	3.8	
2WS0532BHF			230		3.6		18.8	R	70	-	5.8	
2WS0534BHF			460		1.8		9.4	R	70	-	23.2	
2WS0537BHF	575	1.5	7.5		R	62	-	35.3				
2WS0718BHF	0.75	1	208		3.44	11.0	31.0	K	68	9.7	2.4	
2WS0712BHF			230			10.0	27.5	J	65	12.2	2.7	
2WS0738BHF		3	200			6.2	20.6	L	64	-	5.7	
2WS0732BHF			230			5.4	15.7	K	68	-	8.6	
2WS0734BHF			460			2.7	7.9	K	68	-	11	
2WS0737BHF			575			2.2	9.9	L	78	-	26.5	
2WS1018BHF	1	1	208		3.75	14.5	59.0	K	68	9.3	1.1	
2WS1012BHF			230			13.0	36.2	J	69	10.3	2.1	
2WS1038BHF		3	200			8.6	27.6	M	77	-	2.7	
2WS1032BHF			230			7.5	24.1	L	79	-	4.1	
2WS1034BHF			460			3.8	12.1	L	79	-	16.2	
2WS1037BHF			575			3.1	9.9	L	78	-	26.5	
2WS1512BHF	1.5	1	230		4.00	18.0	52.0	J	67	2.76	0.53	
2WS1538BHF			200			10.0	42.4	K	78	-	1.7	
2WS1532BHF		3	230	9.6		42.4	K	78	-	1.7		
2WS1534BHF			460	4.8		21.2	K	78	-	6.6		
2WS1537BHF			575	3.9		16.3	L	78	-	10.5		
2WS2012BHF	2	1	230	4.44	18.0	49.6	F	78	3.2	1.1		
2WS2038BHF			200		12.0	42.4	K	78	-	1.7		
2WS2032BHF		3	230		11.6	42.4	K	78	-	1.7		
2WS2034BHF			460		5.8	21.2	K	78	-	6.6		
2WS2037BHF			575		4.7	16.3	L	78	-	10.5		

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



Discharge Flange:

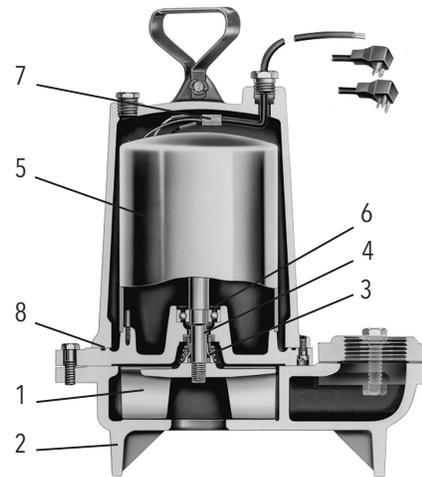
- ① 2" NPT standard
- ② 3" NPT optional (order an A1-3)

PERFORMANCE RATINGS (gallons per minute)

Order No.	2WS03-BHF	2WS05-BHF	2WS07-BHF	2WS10-BHF	2WS15-BHF	2WS20-BHF
	HP	1/3	1/2	3/4	1	1 1/2
RPM	3500	3500	3500	3500	3500	3500
10	86	110	140	-	-	-
15	48	88	120	158	-	-
20	-	62	98	139	186	217
25	-	32	74	120	170	204
30	-	-	49	101	150	190
35	-	-	21	82	130	175
40	-	-	-	60	110	159
45	-	-	-	38	88	140
50	-	-	-	-	67	120
55	-	-	-	-	47	100
60	-	-	-	-	29	80
65	-	-	-	-	-	62
70	-	-	-	-	-	43
75	-	-	-	-	-	23

COMPONENTS (for reference only)

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



Xylem Inc.
 2881 East Bayard Street Ext., Suite A
 Seneca Falls, NY 13148
 Phone: (866) 325-4210
 Fax: (888) 322-5877
goulds.com/redjacket

Red Jacket Water Products is a trademark of Xylem Inc. or one of its subsidiaries. Goulds is a registered trademark of Goulds Pumps, Inc. and is used under license.
 © 2017 Xylem Inc. BRJ2WSBHF R3 January 2017