

Submersible Sewage Pump 3" Flanged Discharge, 2½" Solids Handling



Specifically designed for the following uses: Sewage systems, flood and pollution control, dewatering/effluent, farms, hospitals, trailer courts, motels.

Maximum solid size: 2.5"

Discharge Size: 3", 125# ANSI flange

Maximum capacity: 470 GPM

Maximum Total Head: 65 feet

300 Series stainless steel fasteners

20' Power cord

Standard silicon carbide/silicon carbide outer (lower) seals

Impeller: Cast iron, ASTM A48, Class 30, two vane semi-open, non-clog design with pump out vanes for mechanical seal protection. Dynamically balanced for smooth operation. silicon bronze impeller is an option.

Casing: Heavy duty gray cast iron, ASTM A48, Class 30. Volute type casing with 3", 125#, flanged, horizontal discharge conforming to ANSI standards. Compatible with A10-30 cast iron or A10-30B cast iron and brass (non-sparking) guide rail assembly.

Dual Mechanical Seals: Silicon carbide vs. silicon carbide outer seal and ceramic vs. carbon inner seal, stainless steel metal parts, BUNA-N elastomers. Upper and lower shaft seals are positioned independently and are separated by an oil-filled chamber.

Components: Capable of running dry without damage to components.



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

MOTOR INFORMATION

General:

Class "F" insulation Oil-filled design

Single Phase:

Built-in automatic reset overload

208 V - 1.5-3 HP

230 V - 1.5-5 HP

Three Phase:

Capacitor start

Built-in automatic reset overload

200 V - 1.5-5 HP

230 V - 1.5-5 HP

460 V - 1.5-5 HP

575 V - 1.5-5 HP

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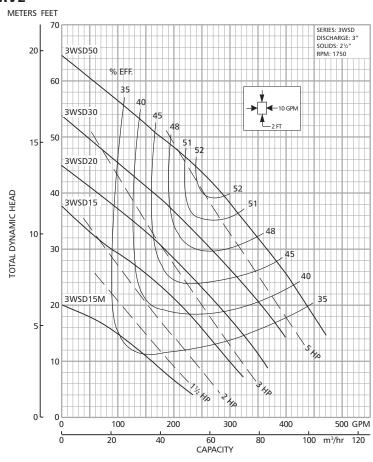
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PERFORMANCE CURVE



MOTOR FEATURES

Maximum ambient temperature: 104° F (40° C) continuous duty; 140° F (60° C) intermittent duty

RPM: 1750; 60 Hertz

300 Series stainless steel keyed shaft

Silicon bronze impeller.

Tungsten carbide outer seals.

Oil-filled: Fully submerged in O-ring sealed, oil-filled chamber. High grade turbine oil surrounds motor for more efficient heat dissipation, permanent lubrication of bearings and mechanical seal for complete protection against outside environment.

Single phase: 1.5 and 2 HP have 14/3 STOW and 3 to 5 HP have 10/3 STOW cords. Built-in capacitors and on-winding overload protection.

Three phase: Have 14/4 STOW cords except 5 HP 200/230 volt which have 10/4 STOW cords. Overload protection must be provided in control panel or starter unit.

Continuous duty design: Motor is designed for continuous operation when fully submerged.

Ratings: Pump ratings are within the motor manufacturer's working limits.

Bearings: Upper and lower ball bearing construction

to carry all radial and thrust loads.

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.





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MODEL INFORMATION

Order Number	НР	Phase	Volts	RPM	Impeller Dia. (in.)	Max. Amps	LRA	KVA Code	Full Load Motor Eff.	Resistance		Wt.
	HP									Start	Line-Line	(lbs.)
3WS1518DM*	1.5	1	208	5.25	5 25	15.0	50.8	В	80	1.1	0.9	192
3WS1512SDM*			230			11.0	32.7	F	73	1.5	1.4	
3WS1538DM*		3	200			11.5	43.0	Н	81	NA	1.7	
3WS1532DM*			230		10.0	40.0	K	81	NA	2.3	190	
3WS1534DM*			460		5.0	20.0	E	74	NA	9.3		
3WS1537DM*			575			4.0	11.8	E	74	NA	14.8	
3WS1518D	1.5	1	208			15.0	50.8	В	80	1.1	0.9	192
3WS1512D			230		11.0	32.7	F	73	1.5	1.4	192	
3WS1538D		3	200		6.50	11.5	43.0	Н	81	NA	1.7	190
3WS1532D			230			10.0	40.0	K	81	NA	2.3	
3WS1534D			460	7.00	5.0	20.0	E	74	NA	9.3	190	
3WS1537D			575			4.0	11.8	Е	74	NA	14.8	
3WS2018D		1	208		7.00	19.0	50.8	В	80	1.1	0.9	196
3WS2012D			230			15.0	37.4	D	76	1.4	1.3	
3WS2038D	2	3	200			11.5	43.0	Н	81	NA	1.7	194
3WS2032D			230		7.00	10.0	40.0	F	83	NA	2.3	
3WS2034D			460			5.0	20.0	F	83	NA	9.3	
3WS2037D			575			4.0	14.4	Н	74	NA	14.8	
3WS3018D		1	208			25.5	50.8	В	80	1.1	0.9	205
3WS3012D			230			21.5	46.4	С	79	1.0	1.0	
3WS3038D	3	3	200		7.25	15.2	43.0	G	85	NA	1.3	
3WS3032D			230			12.0	49.5	Н	83	NA	1.9	
3WS3034D			460			6.0	24.8	Н	83	NA	7.5	
3WS3037D			575			4.8	17.3	G	78	NA	11.6	
3WS5012D		1	230			26.5	57.7	Α	80	1.0	0.8	210
3WS5038D	5		200	8.00		18.8	77.8	F	84	NA	0.9	- 205
3WS5032D		3	230		8.00	16.4	63.6	Е	85	NA	1.2	
3WS5034D		3	460			8.2	31.8	Е	85	NA	4.8	
3WS5037D			575			6.8	22.8	Е	80	NA	7.4	

^{*} M denotes a minimum diameter impeller.

PERFORMANCE RATINGS

Series No.▶		3WS15DM	3WS15D	3WS20D	3WS30D	3WS50D			
HP ▶		11/2	11/2	2	3	5			
RPM ▶		1750							
Total Head Feet of Water	10	160	300						
	15	90	260	320					
	20		210	280	350	435			
	25		160	235	310	400			
	30		100	185	265	360			
	35			130	210	325			
	40			60	160	280			
	45				100	230			
	50					170			
٢	55					115			
	60					60			

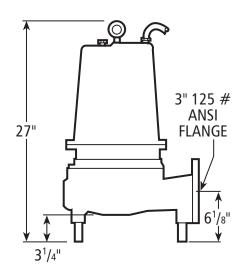


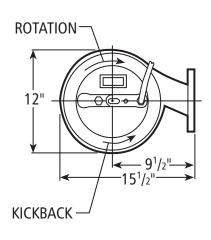


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DIMENSIONS

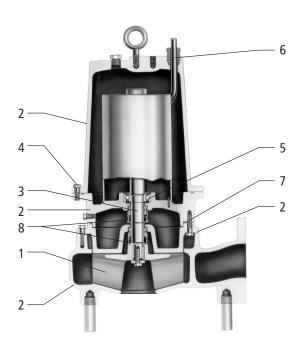
(All dimensions are in inches. Do not use for construction purposes.)





MATERIALS OF CONSTRUCTION

Item				Material					
No.	Part Na	me	,	Sta	ndard	Optional			
1	Impelle	r, non	-clog	1	003	1101			
2	Casting	s		1	003				
3	Shaft-k	eyed		300 S	eries SS				
4	Fastene	rs		300 S	eries SS				
5	Ball bea	rings		S	teel				
6	Power o	able		STOW	, 20 feet	Addl. lengths			
7	O-ring			BU	NA-N				
8	Mecha Sea		Service	Rotary	Stationary	Elastomers	Metal Parts		
	Inner (Upper)	All	All	Carbon Ceramic					
	Outer (Lower)	STD	Mild abrasives	Silicon carbide		BUNA-N	300 Series SS		
		OPT	Heavy Duty	Tungste	en carbide				
	Mater	rial Co	de	Engineering Standard					
	1	003		Cast iron — ASTM A48 Class 30					
	1	101		Bronze — ASTM C87500					



Red Jacket Water Products reserves the right to make design improvements and pricing modifications as necessary and without notice.

