

BARNES®

Plumbing Supply Products



motralec

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CRANE PUMPS & SYSTEMS

Sump Pumps

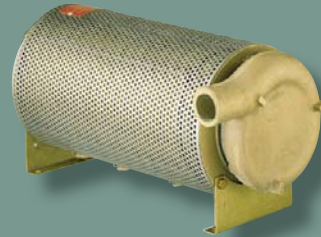
Submersible pumps for general purpose residential, commercial and light industrial sump applications.



page 3

Fountain Pumps

Vertical and unique horizontal submersible pumps specially designed for use in decorative water displays.



page 5

Effluent Pumps

Submersible effluent pumps designed to efficiently handle septic tank effluent applications for the long term.



page 6

Sewage & Grinder Pumps

Submersible sewage ejector and grinder pumps for a wide variety of relatively light through heavy duty wastewater services.



page 8

Package Systems

Complete line of pre-assembled sewage ejector packages.



page 13

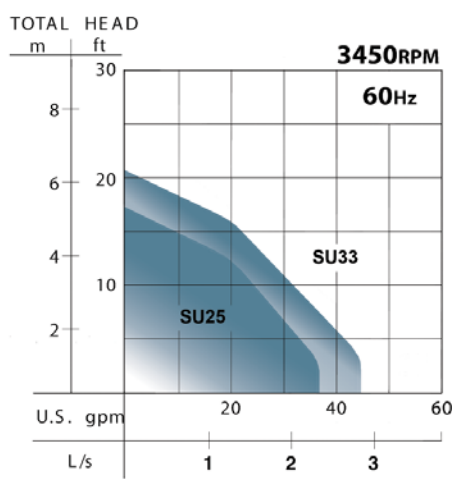
Accessories

Complete line of level controls, control panels, breakaway fittings (BAF's) and other accessories.



page 14

SHUR-Switch™ SU25 • SU33

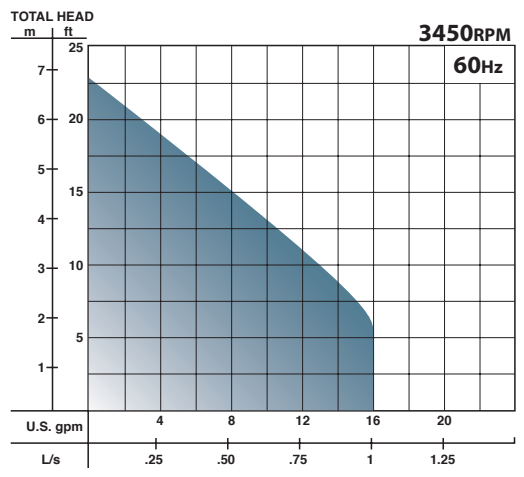


Model	SU25	SU33
Motor	1/4hp	1/3hp
RPM	3450	3450
Electrical	120v 1ph	120v 1ph
Cord Length	9'	9'
Construction	Cast Iron/ Thermoplastic	Cast Iron/ Thermoplastic
Impeller	Thermoplastic	Thermoplastic
Discharge	1.5"	1.5"
Automatic Operation	Vertical Float Integral to Pump	Vertical Float Integral to Pump

- GFCI Compatible for safety
- Fully protected level switch
- Cast Iron motor enclosure

Patent Pending

UT17 Utility Submersible Pump

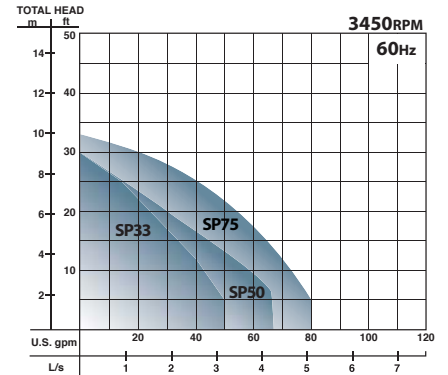


Model	UT17
Motor	1/6hp
RPM	3450
Electrical	120v 1ph
Cord Length	8'
Construction	Thermoplastic
Impeller	Thermoplastic
Discharge	.75" (garden hose thread)
Solids	.13"
Automatic Operation	No (manual available)

Removes water from any flat surface down to 1/8".

SP33 • 50 • 75 Series

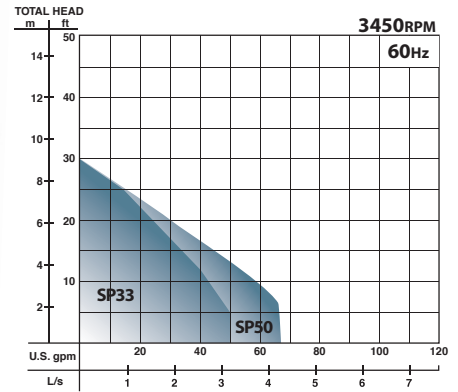
Model	SP33	SP50	SP75
Motor	1/3hp	1/2hp	3/4hp
RPM	3450	3450	3450
Electrical	120v 1ph	120v 1ph	120v 1ph
Cord Length	10' / 20'	20'	20'
Construction	Cast Iron	Cast Iron	Cast Iron
Impeller	Cast Iron Vortex	Cast Iron Vortex	Cast Iron Vortex
Discharge	1.5"	1.5"	1.5"
Solids	.5"	.5"	.5"
Automatic Operation <i>(manual available)</i>	Mechanical Float Vertical Float	Mechanical Float Vertical Float	Mechanical Float Vertical Float



- Available in high temperature model (SP33HTX) for 185°F intermittent service.
- GFCI Compatible for Safety

SP33D • SP50DX

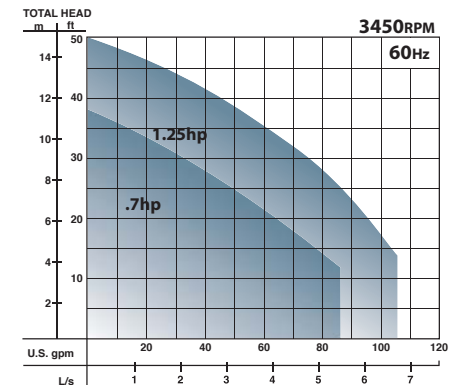
Model	SP33D	SP50DX
Motor	1/3hp	1/2hp
RPM	3450	3450
Electrical	120v 1ph	120v 1ph
Cord Length	10'	20'
Construction	Cast Iron	Cast Iron
Impeller	Cast Iron Vortex	Cast Iron Vortex
Discharge	1.5"	1.5"
Solids	.5"	.5"
Automatic Operation <i>(manual available)</i>	Diaphragm switch with piggy-back cord	Diaphragm switch with piggy-back cord



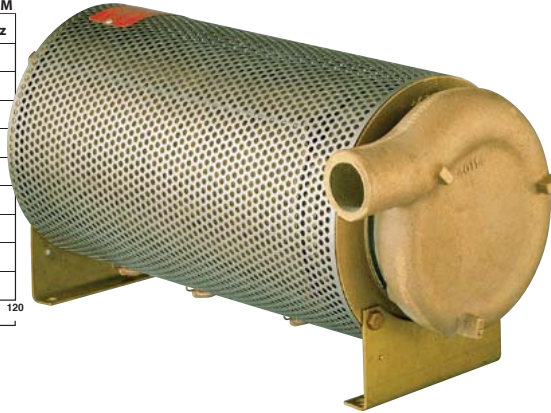
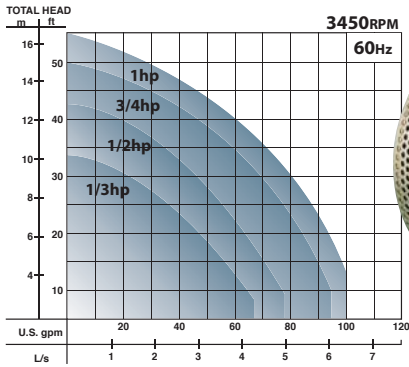
GFCI Compatible for Safety

70 & 125 Submersible Dewatering Pumps

Model	70	125
Motor	7/10hp	11/4hp
RPM	3450	3450
Electrical	120v 1ph 240v 1ph	120v 1ph 240v 1ph
Cord Length	50'	50'
Construction	Stainless Steel Motor Shell	Stainless Steel Motor Shell
Impeller	Polyurethane	Polyurethane
Discharge	2"	2"
Solids	.25"	.25"
Automatic Operation <i>(manual available)</i>	No	No



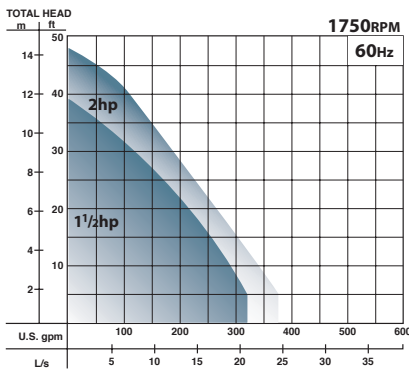
SFU Series



Motor	1/3hp • 1/2hp • 3/4hp • 1hp
RPM	3450
Electrical	115v 1ph (1/3, 1/2, 3/4 hp) 230v 1ph (3/4, 1 hp)
Cord Length	12'
Construction	Stainless Steel Screen
Impeller	Brass
Discharge	1.75"
Solids	.25"
Automatic Operation <i>(manual available)</i>	No

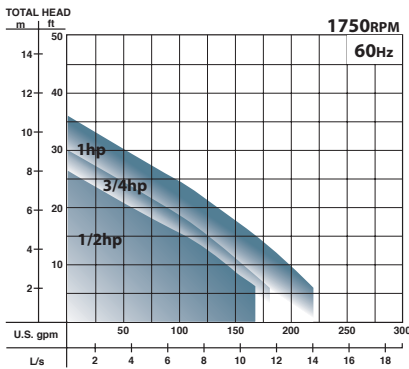
Fountain Pumps

3SF-HD



Model	3SF-HD
Motor	1 1/2hp • 2hp
RPM	1750
Electrical	230v 1ph & 3ph 460v 3ph
Cord Length	25'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	3"
Automatic Operation <i>(manual available)</i>	No

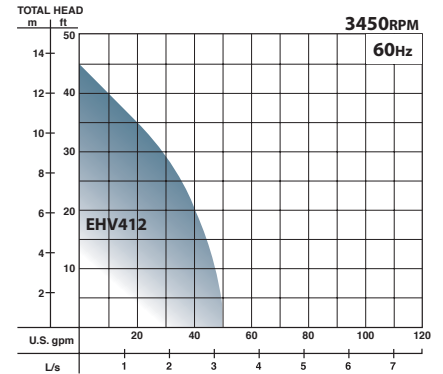
SF & 3SF-L



Model	SF & 3SF-L
Motor	1/2hp • 1hp
RPM	1750
Electrical	115v 1ph (1/2hp only) 230v 1ph
Cord Length	15'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	2"
Automatic Operation <i>(manual available)</i>	No

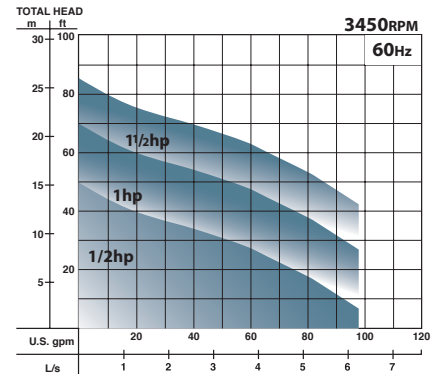
EHV412 Series

Model	EHV412
Motor	1/2hp
RPM	3450
Electrical	115v 1ph
Cord Length	20'
Construction	Cast Iron
Impeller	Vortex Cast Iron
Discharge	2"
Solids	.75"
Automatic Operation <i>(manual available)</i>	Mechanical Float Vertical Float



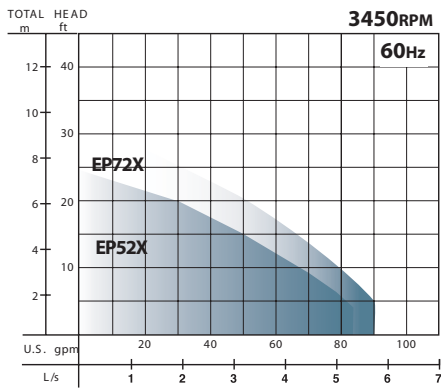
EH-L • EH-DS Series

Motor	1/2hp, 1hp & 1 1/2hp
RPM	3450
Electrical	115v 1ph (1/2hp only) 230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Polypropylene
Discharge	2"
Solids	.75"
Automatic Operation <i>(manual available)</i>	No



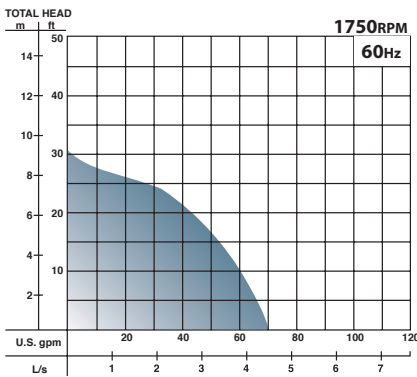
- Single seal model shown. Also available with double seal design.
- Available in high temperature manual (1/2hp & 1 1/2hp only).

EP52 • EP72



Model	EP52X	EP72X
Motor	1/2hp	3/4hp
RPM	3450	3450
Electrical	240v 1ph	240v 1ph
Cord Length	20'	20'
Construction	Cast Iron	Cast Iron
Impeller	Cast Iron Vortex	Cast Iron Vortex
Discharge	1.5"	1.5"
Solids	.75"	.75"

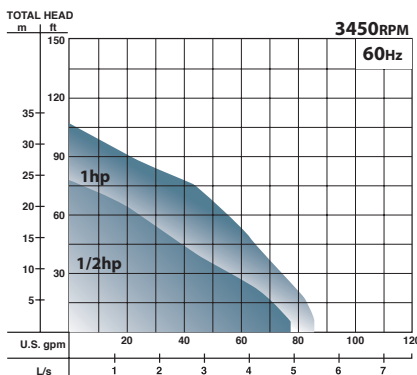
BP314 • 324 Series



Model	BP314	BP324
Motor	1/3hp	1/3hp
RPM	1750	1750
Electrical	115v 1ph	230v 1ph
Cord Length	15'	15'
Construction	Cast Iron Bronze Available	Cast Iron Bronze Available
Impeller	Thermoplastic Bronze Available	Thermoplastic Bronze Available
Discharge	2"	2"
Solids	.75"	.75"
Automatic Operation (manual available)	Mechanical Float Vertical Float	Mechanical Float Vertical Float

- Features inboard seal design, ideal for agricultural use.
- Available in high temperature manual/automatic.

STEP-SS • STEP-DS Series

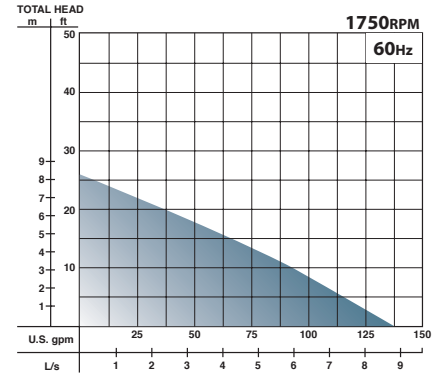


Motor	1/2hp, 1hp
RPM	3450
Electrical	115v 1ph (1/2hp only) 230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Polypropylene
Discharge	2"
Solids	.75"
Automatic Operation (manual available)	Mechanical Float

- Single seal model shown.
- Also available with double seal design.

SE411 • 421 Series

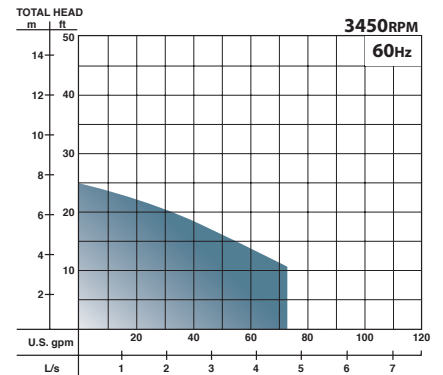
Model	SE411	SE421
Motor	4/10hp	4/10hp
RPM	1750	1750
Electrical	115v 1ph	230v 1ph
Cord Length	15'	15'
Construction	Cast Iron	Cast Iron
Impeller	Cast Iron	Cast Iron
Discharge	2"	2"
Solids	2"	2"
Automatic Operation <i>(manual available)</i>	Mechanical Float Vertical Float	Mechanical Float Vertical Float



- Features inboard seal design, ideal for agricultural use.
- Available in high temperature manual/automatic.

SEV412 Series

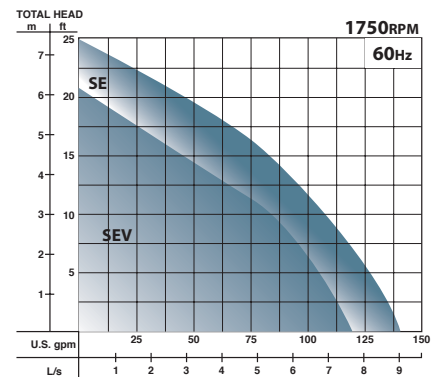
Model	SEV412
Motor	1/2hp
RPM	3450
Electrical	115v 1ph
Cord Length	20'
Construction	Cast Iron
Impeller	Cast Iron Vortex
Discharge	2"
Solids	2"
Automatic Operation <i>(manual available)</i>	Mechanical Float Vertical Float



U.S. gpm | L/s

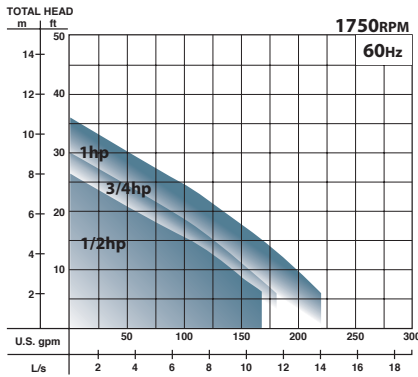
SE511 • 521 & SEV511 • 521 Series

Model	SE511 • SEV511	SE521 • SEV521
Motor	1/2hp	1/2hp
RPM	1750	1750
Electrical	115v 1ph	230v 1ph
Cord Length	15'	15'
Construction	Cast Iron	Cast Iron
Impeller	Cast Iron (Se) Bronze Vortex (SEV)	Cast Iron (Se) Bronze Vortex (SEV)
Discharge	2"	2"
Solids	2"	2"
Automatic Operation <i>(manual available)</i>	Mechanical Float Vertical Float	Mechanical Float Vertical Float



- Features inboard seal design, ideal for agricultural use.

SE Series

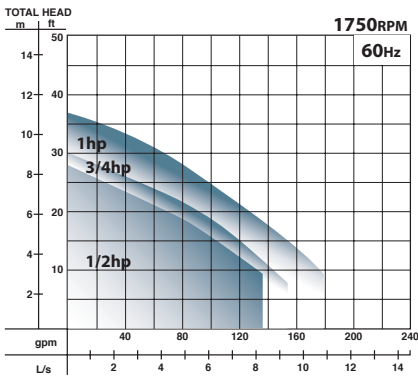


- Available in high temperature manual automatic (1/2hp only).
- Also available with double seal design or in fountain duty.



Motor	1/2hp, 3/4hp, 1hp
RPM	1750
Electrical	115v 1ph (1/2hp only) 230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	2"
Solids	2"
Automatic Operation <i>(manual available)</i>	Mechanical Float (1/2hp Only)

2SEV • 2SEV-DS 1750 Series

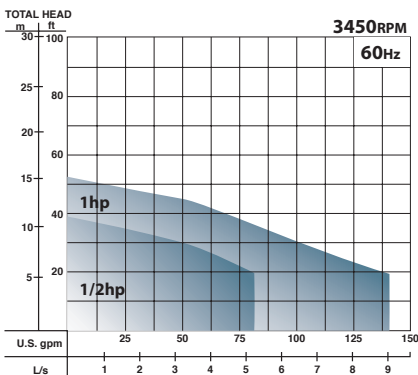


- Double seal model shown.
- Also available with single seal design.



Motor	1/2hp, 3/4hp, 1hp
RPM	1750
Electrical	115v 1ph (1/2hp only) 230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Cast Iron Vortex
Discharge	2"
Solids	2"
Automatic Operation <i>(manual available)</i>	No

2SEV • 2SEV-DS 3450 Series



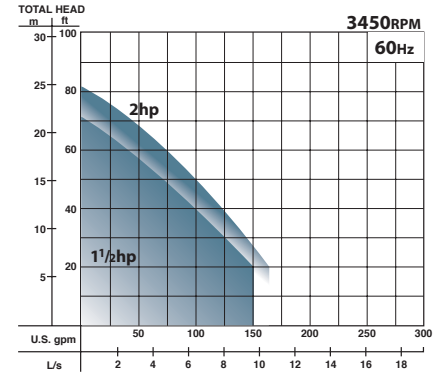
- Double seal model shown.
- Also available with single seal design.



Motor	1/2hp, 1hp
RPM	3450
Electrical	115v 1ph (1/2hp only) 230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Cast Iron Vortex
Discharge	2"
Solids	2"
Automatic Operation <i>(manual available)</i>	No

2SEV • 2SEV-DS Series

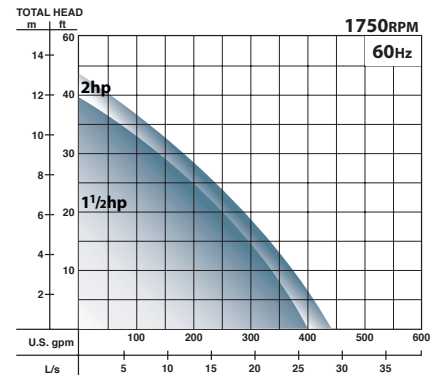
Motor	1½hp, 2hp
RPM	3450
Electrical	230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	20'
Construction	Cast Iron
Impeller	Bronze Vortex
Discharge	2"
Solids	2"
Automatic Operation <i>(manual available)</i>	No



- Single seal model shown.
- Also available with double seal design.

3SE-DS Series

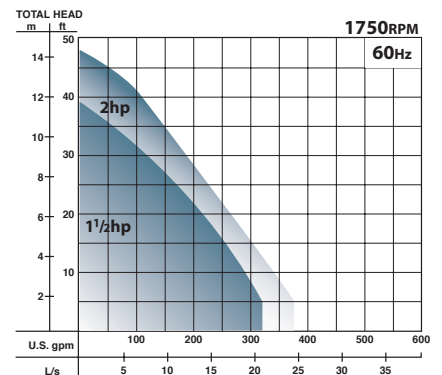
Motor	1½hp, 2hp
RPM	1750
Electrical	230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	30'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	3"
Solids	2.5"
Automatic Operation <i>(manual available)</i>	No



- Features inboard seal design, ideal for agricultural use.
- Available in fountain duty model (3SF).

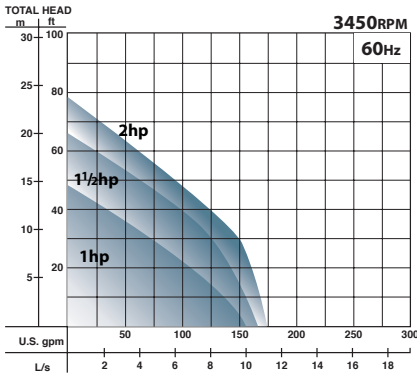
3SE-L Series

Motor	1½hp, 2hp
RPM	1750
Electrical	230v 1ph & 3ph 460v 3ph
Cord Length	30'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	3"
Solids	2.5"
Automatic Operation <i>(manual available)</i>	No



- Features inboard seal design, ideal for agricultural use.
- Available in fountain duty model (3SF).

3SE-L • 1½-2hp Series

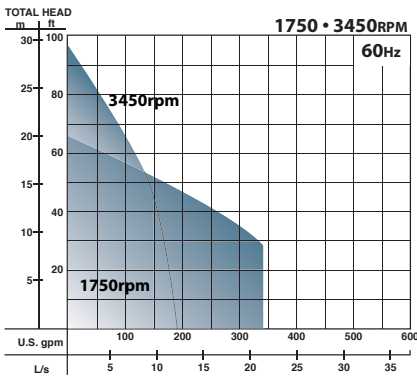


- Single seal model shown.
- Also available with double seal design.



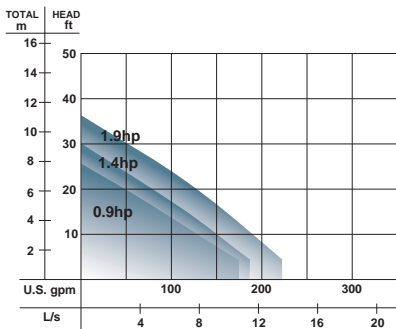
Motor	1½hp, 2hp
RPM	3450
Electrical	230v 1ph 230v 3ph 460v 3ph 575v 3ph
Cord Length	30'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	3"
Solids	1.5"
Automatic Operation <i>(manual available)</i>	No

3SE-L • 3SE-DS Series



Motor	3hp	3hp
RPM	1750	3450
Electrical	230v 1ph & 3ph 460v 3ph 575v 3ph	230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	30'	30'
Construction	Cast Iron	Cast Iron
Impeller	Cast Iron	Cast Iron
Discharge	3"	3"
Solids	2.5"	1.5"
Automatic Operation <i>(manual available)</i>	No	No

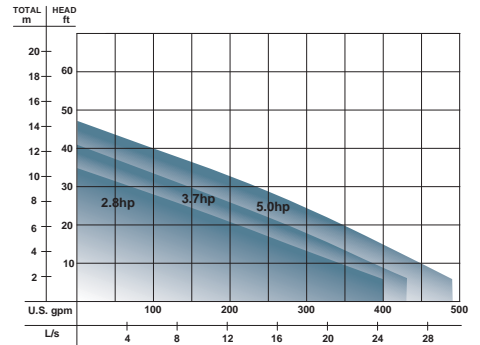
4SE-L • 4SE-DS Series



Motor	0.9, 1.4 & 1.9 hp
RPM	1750
Electrical	230v 1ph & 3ph 460v 3ph 575v 3ph
Cord Length	30'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	3" / 4"
Solids	2"
Automatic Operation <i>(manual available)</i>	No

4SE-SS • 4SE-L

Model	4SE-SS
Motor	2.8hp • 3.7hp • 5hp
RPM	1750
Electrical	230v sp 3p 460v 3p
Cord Length	40'
Construction	Cast Iron
Impeller	Cast Iron
Discharge	4"
Solids	2.5"
Automatic Operation <i>(manual available)</i>	No



PGPP • PGPH Grinder Pump

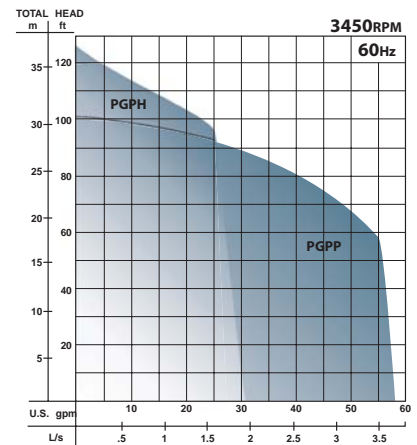
Motor	2hp
RPM	3450
Electrical	240v 1ph
Cord Length	20' quick connect
Construction	Cast Iron
Impeller	Cast Iron
Discharge	1.25"
Automatic Operation <i>(manual available)</i>	Piggy Back Float



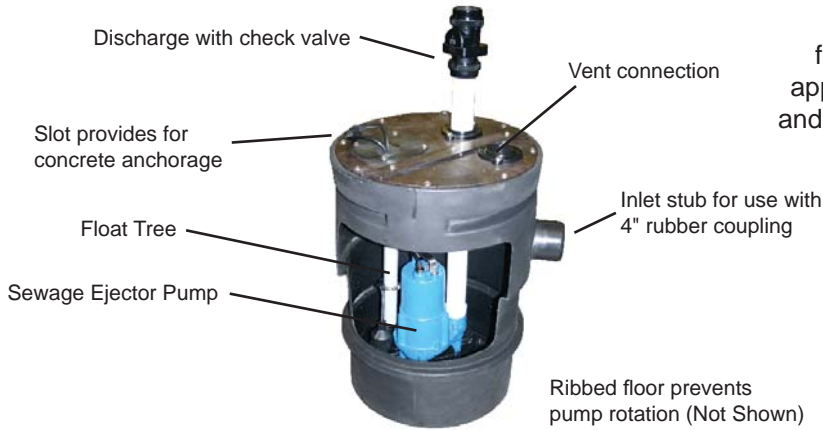
Exclusive Slicerator™



The staggered slicing action of the grinder radial cutter dramatically reduces the torque requirement of the motor, cuts with less horsepower, and increases the unit's efficiency. This helps prevent clogging with particularly troublesome objects such as plastic, rubber, sanitary napkins, disposable diapers and cloth items.



PITPRO™ 41 Gallon Pre Assembled Sewage Systems



Barnes 41 gallon simplex systems are suitable for residential and commercial sewage or sump applications. They are designed to handle wastes and will pump the water from below ground “uphill” to the sewer.

Tank Capacity
41 gallons

Two Sizes:

- 20" Dia. x 30" Deep
- 25" Dia. x 24" Deep

30 Gallon Sewage Systems



System comes complete as shown using the Barnes reliable SE411 or SEV412 sewage ejector pre-assembled. The 18"x30" basin is available as standard or IAPMO approved. Ideal for residential, industrial and commercial applications.

Tank Capacity
30 gallons

SP33LT Laundry Tray Pump



Package comes complete as shown with SP33VF pump pre-assembled. The 12"x14"x16" basin package can be used to remove water where gravity flow is not available without breaking concrete.

Typical Applications

Laundry tray pump, sinks, dehumidifier water and air conditioning condensate removal, wet bars.

Tank Capacity
11 gallons

SU33LT Laundry Tray Pump



Package comes complete with SU33 pump and integral check valve. The 15"x15"x14" basin package fits easily under utility sinks and removes water when gravity flow is not an option.

Typical Applications

Laundry tray pump, sinks, dehumidifier water and air conditioning condensate removal, wet bars.

Tank Capacity
6 gallons

Basins & Covers

A full line of heavy duty fiberglass basins and covers are available for the large jobs requiring extra storage capacity and/or tank depth.



Battery Backup System

With the battery backup sump pump system your pumping power is never interrupted. The BUS switches automatically to battery power when the power fails or it pumps along with your primary pump when there is more water coming into your sump than your main pump can handle.



Break Away Fittings (BAF)

Barnes break away fittings allow pump installation and removal without wet well entry or piping disconnection. Break away fittings provide easy access to all Barnes 1 1/4" (32mm) thru 4" (101mm) submersible pumps; units may be adapted for other submersibles with similar discharge openings. Available in non-sparking design.



Control Panels • Indoor/Outdoor High Water Alarms



Barnes control panels provide proven, reliable performance and potential malfunction warning. Simplex and Duplex models are contained within a NEMA 4X enclosure and are available with single or three phase power. All components are UL listed.

A variety of remote alarms with warning lights and/or annunciators for indoor or outdoor use may be specified. Require 120v power supply.

Junction Boxes & Floats



Junction boxes are available in Simplex and Duplex models with NEMA 4X ratings. UL listed for select models.

Level controls may be specified to meet pump installation requirements.

Battery Backup systems available.

Check Valves & Union Valves



Check and Ball Valves are available in a variety of configurations for solution, backflow prevention and easy pump removal.

Basement Genie



System comes complete as shown using the Barnes reliable SE411 or SEV412 sewage ejector. Assembly required. Allows for the installation of a bathroom where gravity flow is not available without breaking concrete.

Model	hp	Solids Size (in)	Shut Off (ft)	Total Head (ft)													
				5'	10'	15'	20'	25'	30'	35'	40'	50'	60'	70'	80'	90'	100'
SUMP PUMPS																	
SU25	1/4		17	35	26	12											
SU33	1/3		20	41	33	23	4										
UT17	1/6	1/4	23	16	13	8	3										
SP33	1/3	1/2	30	58	43	35	25	15									
SP33D	1/3	1/2	30	58	43	35	25	15									
SP33DX	1/2	1/2	30	58	43	35	25	15									
SP50	1/2	1/2	30	66	58	46	35	20									
SP75	3/4	1/2	33	80	72	65	52	40	20								
70	7/10	1/4	38			75	61	48	30	11							
125	1¼	1/4	50			105	95	85	74	60	45						
EFFLUENT PUMPS																	
BP314	1/3	3/4	30	66	60	53	44	26									
EHV412	1/2	3/4	45	48	45	42	38	33	28	20	10						
EH512L	1/2	3/4	50	100	92	85	75	65	52	35	20						
EP52	1/2	3/4	23	81	68	51	30										
EP72	3/4	3/4	31	88	77	65	53	37	10								
EH1022L	1	3/4	70				100	96	90	81	70	45	17				
STEP522L	1/2	3/4	80	78	75	70	67	62	57	53	48	36	25	13			
STEP1022L	1	3/4	110	86	84	83	80	77	74	71	68	61	52	44	35	23	11
EH1522L	1½	3/4	85								100	83	60	31	10		
SEWAGE PUMPS																	
SE411	4/10	2	26	116	95	70	38	3									
SEV412	1/2	2	25	86	74	56	35										
SE51	1/2	2	26	175	138	100	50	2									
SE511	1/2	2	25	138	114	87	45										
SEV524	1/2	2	27	140	130	100	65	20									
2SEV522	1/2	2	39	85	85	85	80	64	50	35							
2SEV724	3/4	2	30	160	142	115	90	50									
2SE1024	1	2	36	225	195	165	132	95	50	10							
2SEV1022	1	2	53	140	140	140	138	120	100	85	70	20					
3SE1022L	1	1½	48	152	142	130	110	93	75	55	35	10					
3SE1524L	1½	2½	39	370	340	300	250	190	120	50							
3SE1524HD	1½	2½	37	320	290	250	230	170	120	60							
2SEV1522	1½	2	71				150	138	125	113	98	70	38	5			
3SE1522L	1½	1½	66	163	155	150	142	135	125	115	100	60	23				
3SE2024L	2	2½	47	410	375	340	290	250	200	150	90						
3SE2024HD	2	2½	48	370	335	300	265	235	190	150	110						
2SEV2022	2	2	81				165	155	140	130	120	95	73	40	5		
3SE2022L	2	1½	78	170	165	160	156	152	150	140	130	105	65	26			
3SE3032L	3	1½	96	190	187	185	180	175	170	165	160	145	120	85	55	25	
3SE3024L	3	2½	66					350	330	300	255	170	60				
4SE-DS	0.9	2	26	180	138	97	50										
4SE-DS	1.4	2	30	185	156	124	86	42									
4SE-DS	1.9	2	37	226	195	167	132	94	48								
4SE-SS/L	2.8	2½	35	405	340	275	208	140	65								
4SE-SS/L	3.7	2½	41	435	375	330	270	212	150	81	13						
4SE-SS/L	5	2½	47	485	445	400	350	295	232	171	100	25					
PGPP	2		105	102	101	99	97	94	93	90	85	75					
PGPH	2		125	120	114	109	104	97	12								

● Grinder Pump

↑ High Temperature pumps available

(Sewage Pumps can be used for Effluent service)



PUMPS & SYSTEMS

A Crane Co. Company

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