

Pressure Booster Pumps

Pressure Booster Pumps for a wide variety of pumping applications. Ideal for increasing rinse water pressure, liquid transfer, spot-free water re-pressurization and many others. Standard construction is Stainless Steel or Cast Iron. (Not Self-priming). Maximum temperature is 160° F. - water only.

Application For:

- Residential, commercial or agricultural pressure wash
- Reverse osmosis
- Evaporative cooling systems/misters
- Booster Service
- Spray systems
- Water circulation
- Filtration
- HVAC
- General purpose pumping



Motors are 60HZ, 3500 RPM, TEFC, and are available in either single phase, 115/230 volt or three phase, 208/230/460 volt. (3 Phase motors are TEFC premium efficiency).

Cast Iron Pumps feature cast iron inlet and discharge fittings and 304SS stainless pump shell. Mechanical seal and BUNA elastomers are standard.

Stainless Steel pumps feature 304SS stainless steel inlet and discharge fittings and pump shell. Mechanical seal and VITON® elastomers are standard.

Part No.	Castings	Motor	Ports	* Flow Rate	Wt.
GL 7GBC1014R0	Cast Iron	1hp, 1ph	1" FPT	5 GPM @ 180 PSI	65 lbs.
GL 7GBS1014R4	Stainless	1hp, 1ph	1" FPT	5 GPM @ 180 PSI	65 lbs.
GL 10GBC1514Q0	Cast Iron	1.5hp, 1ph	1" FPT	8 GPM @ 180 PSI	56 lbs.
GL 10GBS1514Q4	Stainless	1.5hp, 1ph	1" FPT	8 GPM @ 180 PSI	56 lbs.
GL 10GBC2014S0	Cast Iron	2hp, 1ph	1" FPT	12 GPM @ 180 PSI	73 lbs.
GL 10GBS2014S4	Stainless	2hp, 1ph	1" FPT	12 GPM @ 180 PSI	73 lbs.
GL 10GBC2017S0	Cast Iron	2hp, 3ph	1" FPT	12 GPM @ 180 PSI	64 lbs.
GL 10GBS2017S4	Stainless	2hp, 3ph	1" FPT	12 GPM @ 180 PSI	64 lbs.
GL 18GBC2014N0	Cast Iron	2hp, 1ph	1" FPT	15 GPM @ 150 PSI	73 lbs.
GL 18GBS2014N4	Stainless	2hp, 1ph	1" FPT	15 GPM @ 150 PSI	73 lbs.
GL 18GBC2017N0	Cast Iron	2hp, 3ph	1" FPT	15 GPM @ 150 PSI	64 lbs.
GL 18GBS2017N4	Stainless	2hp, 3ph	1" FPT	15 GPM @ 150 PSI	64 lbs.
GL 18GBC3014Q0	Cast Iron	3hp, 1ph	1" FPT	22 GPM @ 130 PSI	77 lbs.
GL 18GBS3014Q4	Stainless	3hp, 1ph	1" FPT	22 GPM @ 130 PSI	77 lbs.
GL 18GBC3017Q0	Cast Iron	3hp, 3ph	1" FPT	22 GPM @ 130 PSI	65 lbs.
GL 18GBS3017Q4	Stainless	3hp, 3ph	1" FPT	22 GPM @ 130 PSI	73 lbs.
GL 45HB25013	† Cast Iron	5hp, 1ph	2" FPT	30 GPM @ 115 PSI	147 lbs.
GL 45HB25035	Cast Iron	5hp, 3ph	2" FPT	30 GPM @ 115 PSI	99 lbs.
GL 45HB27535	Cast Iron	7.5hp, 3ph	2" FPT	50 GPM @ 125 PSI	150 lbs.
GL 45HB21135	Cast Iron	10hp, 3ph	2" FPT	60 GPM @ 125 PSI	190 lbs.

* Flow rates can be increased if discharge pressure is decreased. Pump curves available on request.

† 208/230 V.



Booster Pumps

Sta-Rite HP and HPS Pressure Booster Pumps are ideal for increasing city water pressures or tank water supplies to higher pressure requirements. (pressures to 315 PSI are available).

Common applications are Spot-Free rinse transfer, Reverse osmosis production, General purpose pumping, Car and Truck Wash, HVAC, Washdown and more.

HP Series Pumps have cast iron inlet and discharge fittings. HPS series have stainless steel inlet and discharge.

All models feature 304SS pump shell and shafts, acetal impellers, polycarbonate diffusers, Buna-N O-rings, Carbon/Ceramic Buna-N seals.

Maximum inlet pressure is 80 PSI. Suction lifts to 15'. Maximum temperature is 145° F.

All motors are standard ODP but TEFC are available. Single phase motors from 1/2 HP

to 1-1/2HP motors are 115/230

volt, Three phase are 208/230/460 volt.

2 HP and 3 HP motors are 230 volt single phase or 208/230/460 volt three phase. All models are UL and CSA rated.



* Pressure/Flow ratings shown are in addition to incoming water pressures up to 80 PSI. Example: 40 PSI city water pressure with 180 PSI booster pressure equals 220 PSI discharge pressure.

Cast Iron Pumps

Part No.	Ports	* Flow Rate	Motor	Wt.
SA HP7C	3/4" Cast Iron	7 GPM @ 100 PSI	1/2 HP / 1 Phase	46 lbs.
SA HP7E	3/4" Cast Iron	7 GPM @ 175 PSI	1 HP / 1 Phase	51 lbs.
SA HP10D	3/4" Cast Iron	9 GPM @ 100 PSI	3/4 HP / 1 Phase	46 lbs.
SA HP10E	3/4" Cast Iron	10 GPM @ 125 PSI	1 HP / 1 Phase	50 lbs.
SA HP10FMS	3/4" Cast Iron	10 GPM @ 175 PSI	1-1/2 HP / 1 Phase	58 lbs.
SA HP10G	3/4" Cast Iron	12 GPM @ 165 PSI	2 HP / 1 Phase	63 lbs.
SA HP10G3	3/4" Cast Iron	12 GPM @ 165 PSI	2 HP / 3 Phase	59 lbs.
SA HP20E	1" Cast Iron	13 GPM @ 100 PSI	1 HP / 1 Phase	49 lbs.
SA HP20F	1" Cast Iron	15 GPM @ 120 PSI	1-1/2 HP / 1 Phase	58 lbs.
SA HP20G	1" Cast Iron	15 GPM @ 165 PSI	2 HP / 1 Phase	62 lbs.
SA HP20G3	1" Cast Iron	15 GPM @ 165 PSI	2 HP / 3 Phase	58 lbs.
SA HP20H	1" Cast Iron	22 GPM @ 185 PSI	3 HP / 1 Phase	65 lbs.
SA HP20H3	1" Cast Iron	22 GPM @ 185 PSI	3 HP / 3 Phase	62 lbs.
SA HP30H	1-1/4" Cast Iron	27 GPM @ 135 PSI	3 HP / 1 Phase	65 lbs.
SA HP30H3	1-1/4" Cast Iron	27 GPM @ 135 PSI	3 HP / 3 Phase	62 lbs.

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Stainless Steel Pumps

Part No.	Ports	* Flow Rate	Motor	Wt.
SA HPS7C	3/4" Stainless	7 GPM @ 100 PSI	1/2HP/1 Phase	51 lbs.
SA HPS10FMS	3/4" Stainless	10 GPM @ 175 PSI	1-1/2HP/1 Phase	58 lbs.
SA HPS10D	3/4" Stainless	9 GPM @ 100 PSI	3/4HP/1 Phase	46 lbs.
SA HPS10E	3/4" Stainless	10 GPM @ 125 PSI	1 HP / 1 Phase	50 lbs.
SA HPS10GMS	3/4" Stainless	12 GPM @ 165 PSI	2 HP / 1 Phase	63 lbs.
SA HPS10G3	3/4" Stainless	12 GPM @ 165 PSI	2 HP / 3 Phase	59 lbs.
SA HPS20GMS	1" Stainless	15 GPM @ 165 PSI	2 HP / 1 Phase	63 lbs.
SA HPS20G3	1" Stainless	15 GPM @ 165 PSI	2 HP / 3 Phase	58 lbs.
SA HPS20H	1" Stainless	22 GPM @ 185 PSI	3 HP / 1 Phase	65 lbs.
SA HPS20H3	1" Stainless	22 GPM @ 185 PSI	3 HP / 3 Phase	62 lbs.
SA HPS30H	1-1/4" Stainless	27 GPM @ 135 PSI	3 HP / 1 Phase	65 lbs.
SA HPS30H3	1-1/4" Stainless	27 GPM @ 135 PSI	3 HP / 3 Phase	62 lbs.

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Booster Pumps

Pressure Booster Pumps from Flint & Walling. Ideal for increasing water pressure from city mains or private water systems. Also a good choice for reverse osmosis systems, spray or misting units, water circulation and general purpose pumping. Available in cast iron, powder-coated cast iron and stainless steel construction. Motors are 1 Phase or 3 Phase, ODP/60Hz. (50Hz and TEFC motors also available). Cast iron pumps feature Buna shaft seals. Stainless pumps have Viton® seals. Noryl impellers and diffusers are standard on all models. Single phase is 1/2 to 2 HP, 115/230V and 3 HP is 230 volt. Three phase is 1/2 to 3 HP, 208/230/460V. Rated to 140° F.



Part No.	Material	Motor	FPT Ports	* Flow Rate	Wt. Lbs.
FW PB0512C051	Powder Cast	1/2 hp, 1 ph	3/4"	4 GPM @ 100 PSI	39
FW PB0512S051	Stainless	1/2 hp, 1 ph	3/4"	4 GPM @ 100 PSI	39
FW PB0516C071	Powder Cast	3/4 hp, 1 ph	3/4"	4.6 GPM @ 140 PSI	44
FW PB0516S071	Stainless	3/4 hp, 1 ph	3/4"	4.6 GPM @ 140 PSI	44
FW PB1014A101	Cast Iron	1 hp, 1 ph	3/4"	6 GPM @ 160 PSI	48
FW PB1014C101	Powder Cast	1 hp, 1 ph	3/4"	6 GPM @ 160 PSI	48
FW PB1014S101	Stainless	1 hp, 1 ph	3/4"	6 GPM @ 160 PSI	48
FW PB1016A151	Cast Iron	1-1/2 hp, 1 ph	3/4"	8 GPM @ 160 PSI	53
FW PB1016C151	Powder Cast	1-1/2 hp, 1 ph	3/4"	8 GPM @ 160 PSI	53
FW PB1016S151	Stainless	1-1/2 hp, 1 ph	3/4"	8 GPM @ 160 PSI	53
FW PB2711C201	Powder Cast	2 hp, 1 ph	1"	13 GPM @ 140 PSI	56
FW PB2711C203	Powder Cast	2 hp, 3 ph	1"	13 GPM @ 140 PSI	56
FW PB2711S201	Stainless	2 hp, 1 ph	1"	13 GPM @ 140 PSI	56
FW PB2711S203	Stainless	2 hp, 3 ph	1"	13 GPM @ 140 PSI	56
FW PB2714A301	Cast Iron	3 hp, 1 ph	1"	19 GPM @ 160 PSI	57
FW PB2714A303	Cast Iron	3 hp, 3 ph	1"	19 GPM @ 160 PSI	56
FW PB2714S301	Stainless	3 hp, 1 ph	1"	19 GPM @ 160 PSI	57
FW PB2714S303	Stainless	3 hp, 3 ph	1"	19 GPM @ 160 PSI	56
FW PB2717S303A	Stainless	3 hp, 3 ph	1"	20 GPM @ 180 PSI	60

* Add pressure rates to incoming water pressure for total output pressure, I.E. if incoming pressure is 50 PSI, PB0516 Series will deliver 190 PSI output.

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