Water Systems

Product Catalog

- Constant Pressure System
- Jet Pumps
- Lawn Sprinkler Pumps
- End Suction Centrifugal Pumps
- Pressure Tanks
- 4" Submersible Well Pumps

Franklin Electric

LittleGIANT®

Brand known.

A proven line of heavy-duty pumps for plumbing contractors.

Jet Pumps – Shallow Well Applications

- For applications with a vertical distance of 25 feet or less
- Cast iron casing and seal plate
- Precision-engineered thermoplastic impeller, diffuser, nozzle, and venturi
- A.O. Smith higher than standard NEMA factor dual compartment motors

Jet Pumps – Convertible Well Applications

- For applications with a vertical distance of 90 feet or less
- Cast iron casing and seal plate
- Precision-engineered thermoplastic impeller, diffuser, nozzle, and venturi
- A.O. Smith higher than standard NEMA factor dual compartment motors

Sprinkler – Irrigation Pumps

- For residential and commercial lawn and turf applications
- Self-priming
- Cast iron casing
- Includes LSP Series sprinkler pumps and CP Series end suction centrifugal pumps

Pressure Tanks – Water Well and Pressure Boosting

- Patented, controlled action, double diaphragm assembly is completely contained in a pre-pressurized air cushion to reduce condensation
- Quality tested at four different stages on the production line
- Welded malleable water connection withstands aggressive water

4" Submersible Pumps – Deep Well Applications

- For new installs or replacements
- Performance ranges from 5 to 22 gpm
- Thermoplastic or stainless steel
- Powered by Franklin Electric technically superior submersible motors

See your distributor for more information, or call Franklin Electric directly at 1-800-701-7894.

Water Systems Product Catalog

- Constant Pressure System • Jet Pumps • Lawn Sprinkler Pumps
- End Suction Centrifugal Pumps • Pressure Tanks • 4" Submersible Well Pumps

Table of Contents

Little GIANT®

Inline CP

Applications

- For applications on municipal water or private well systems
- For multi-family dwellings - duplexes, triplexes, and quads
- For increased and constant water pressure from water storage/cistern systems
- For irrigation and water reclamation systems
- For general pressure regulation/increase

Features

- Increase pressure by up to 60 psi
- Handles up to 35 gpm
- Complete packaged system
- Small and compact design
- Simple and easy installation
- NEMA 4 electronics enclosure
- Mount in any configuration
- Product power rating: 1.2 hp, 0.9 kW
- Built in system protections guard the Inline CP from many common failure modes including: surge protection, voltage underload, locked pump, open circuit, short circuit, and overheated controller.
- Capable of operating with more than one pump in parallel for larger volume demand applications

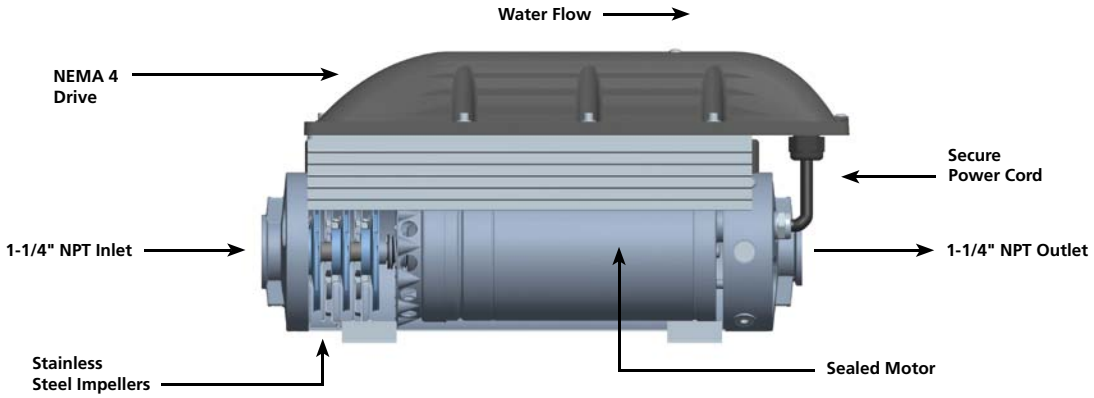
Model Characteristics

Item #	Model Description	Input Voltage	Input Phase
90411101	25LGIL1100N4 [1] (Inline CP)	230	Single
305707907	Drive Assembly	230	Single
305707902	Pump Motor Assembly	230	Three
305707903	Mounting Feet	N/A	N/A
305707906	Pressure Sensor	N/A	N/A
604452	Pressure Tank (2-gallon) Total Volume	N/A	N/A
604453	Pressure Tank (4-gallon) Total Volume	N/A	N/A
305707904	Fastener Kit	N/A	N/A
305707905	Pressure Sensor Cable	N/A	N/A
305707909	Overpressure Shut-off Switch [2]	N/A	N/A
305707908	Overpressure Shut-off Switch Cable [2]	N/A	N/A
225970901	High Pressure Sensor Kit	N/A	N/A
305707912	Over Pressure Shut-off Sensor/Cable Kit [2]	N/A	N/A
5850012000	Duplex Alternator	115	Single

[1] Includes pump, motor, drive, pressure sensor, and cables.

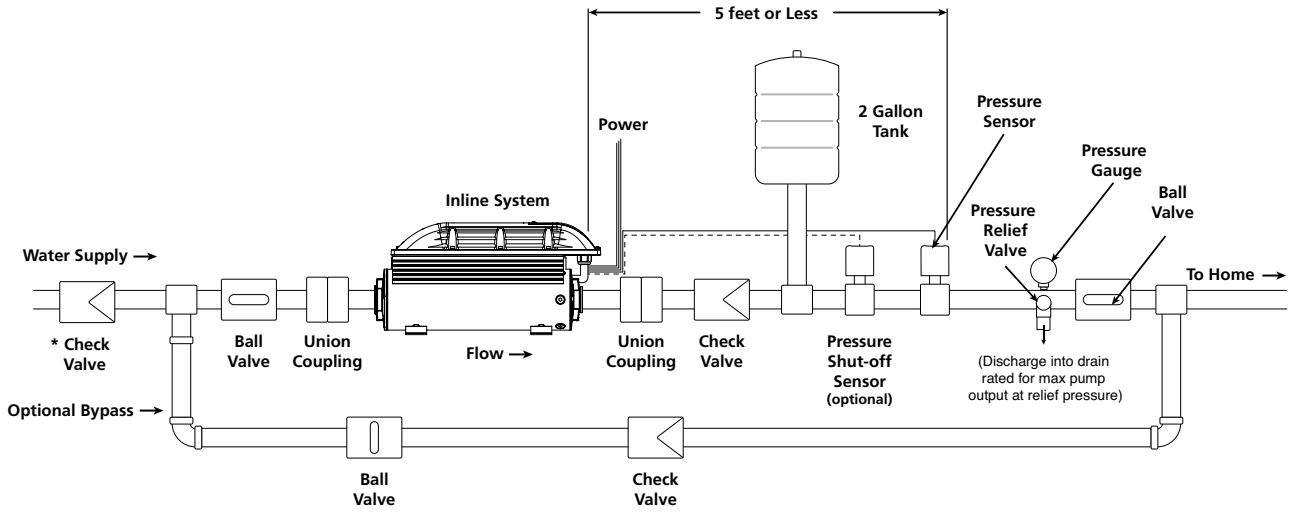
[2] Overpressure switch is sold as an accessory and is not required for normal operation.

System Components



Inline CP

Typical Installation

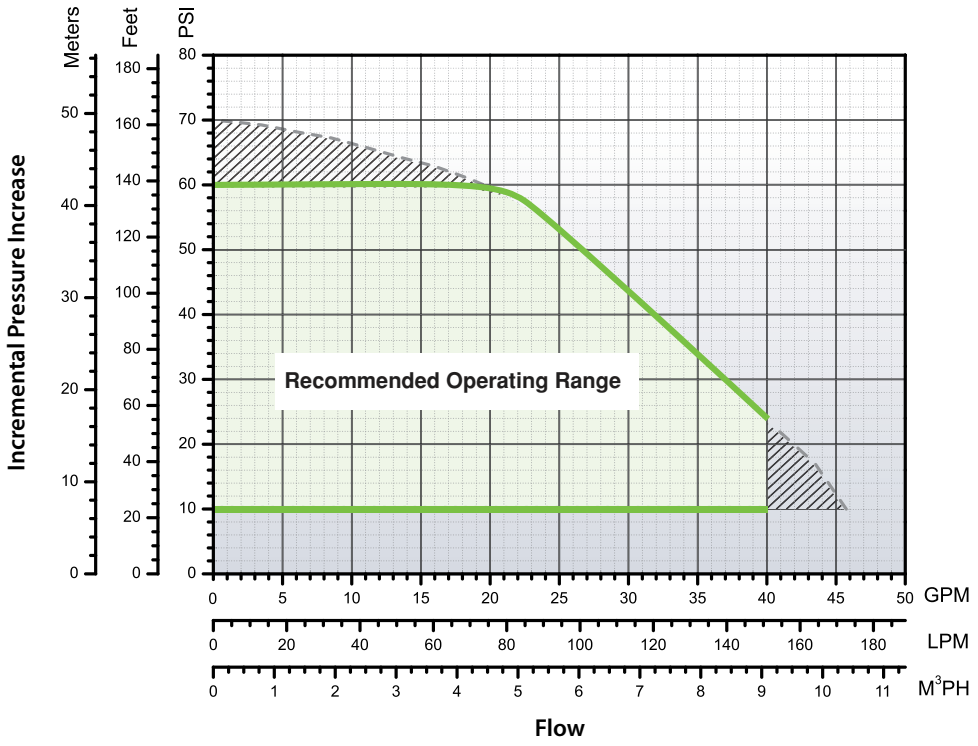


***NOTICE**: If system plumbing does not have a backflow prevention device, a check valve is required on the incoming water supply line.

NOTE: These optional components are shown in a typical installation diagram. They should be used at the installer's discretion as required for particular applications.

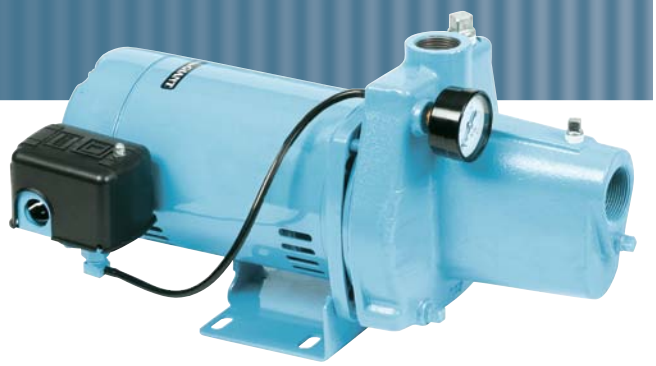
NOTE: 2 gallon total volume tank is a recommendation only. Other tank sizes are acceptable based on specific application conditions.

Performance Curve



NOTE: Running outside of 'Recommended Operating Range' for short periods of time is permissible.

Shallow Well Jet Pumps



Applications

- For supplying fresh water to rural homes, farms, and cabins
- For installations where the vertical distance from the pump to the pumping water level does not exceed 25 feet (7.6 m)

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motor
- Dual voltage 115/230 V
- Pressure switch preset at 30/50 psi
- 1-1/4" (31.7 mm) suction, 1" NPT (25.4 mm) discharge
- Pressure gauge included with all models
- Stainless steel motor shaft and dual ball bearings
- Precision-engineered thermoplastic impeller, diffuser, nozzle, and venturi
- Clean-out plug to easily unclog nozzle
- Fully serviceable with two-year warranty

Model Characteristics

Item #	Model	HP	Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
				20	25	30	35	40	45	50	55	60	
558279	JPH-50-C	1/2	5 (1.5)	8.8 (33.3)	8.9 (33.7)	8.6 (32.5)	8.4 (31.8)	8.3 (31.4)	8.1 (30.3)	7.4 (28)	6.0 (22.7)	4.7 (17.8)	80.6 (5.7)
			10 (3.1)	7.8 (29.5)	7.7 (29.1)	7.55 (28.6)	7.4 (28)	7.25 (27.4)	7.2 (27.3)	6.6 (25)	5.4 (20.4)	4.15 (15.7)	78.5 (5.5)
			15 (4.6)	6.5 (24.6)	6.4 (24.2)	6.3 (23.8)	6.2 (23.5)	6.1 (23.1)	6.0 (22.7)	5.3 (20.1)	4.8 (18.2)	3.6 (13.6)	76.3 (5.4)
			20 (6.1)	5.3 (20.1)	5.2 (19.7)	5.1 (19.3)	4.9 (18.5)	4.8 (18.2)	4.7 (17.8)	4.6 (17.4)	4.1 (15.5)	2.9 (11)	74.1 (5.2)
			25 (7.6)	3.7 (14.0)	3.65 (13.8)	3.6 (13.6)	3.55 (13.4)	3.5 (13.2)	3.5 (13.2)	3.45 (13.1)	2.4 (9.1)	2.3 (8.7)	71.9 (5.1)

Item #	Model	HP	Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
				20	25	30	35	40	45	50	55	60	
558274	JP-050-C	1/2	5 (1.5)	12.8 (48.5)	12.5 (47.3)	12.3 (46.6)	12.1 (45.8)	11.2 (42.4)	9.5 (36)	6.9 (26.1)	4.3 (16.3)	2 (7.6)	64.2 (4.5)
			10 (3.1)	11.5 (43.5)	11.3 (42.8)	11 (41.6)	10.8 (40.9)	10.4 (39.4)	8.5 (32.2)	6 (22.7)	3.4 (12.9)	1 (3.8)	62 (4.4)
			15 (4.6)	9.8 (37.1)	9.7 (36.7)	9.6 (36.4)	9.5 (36)	9.4 (35.6)	7.3 (27.7)	4.7 (17.8)	2.2 (8.3)	–	59.9 (4.2)
			20 (6.1)	8.3 (31.4)	8.1 (30.7)	7.8 (29.5)	7.7 (29.2)	7.6 (28.8)	5.7 (21.6)	3.5 (13.3)	1 (3.8)	–	57.7 (4.06)
			25 (7.6)	5.6 (21.2)	5.5 (20.8)	5.5 (20.8)	5.4 (20.5)	5.3 (20.1)	4.1 (15.5)	2.3 (8.7)	0.2 (.8)	–	55.5 (3.9)

Item #	Model	HP	Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
				20	25	30	35	40	45	50	55	60	
558275	JP-075-C	3/4	5 (1.5)	16.2 (61.3)	16 (60.6)	15.8 (59.8)	15.6 (59.1)	15.4 (58.3)	12.1 (45.8)	8.7 (33)	5.7 (21.6)	2.9 (11)	65 (4.6)
			10 (3.1)	14.3 (54.1)	14 (53)	13.7 (51.9)	13.5 (51.1)	13.2 (50)	10.6 (40.1)	7.6 (28.8)	4.6 (17.4)	1.6 (6.1)	62.8 (4.4)
			15 (4.6)	12.1 (45.8)	11.7 (44.3)	11.3 (42.8)	11 (41.7)	10.6 (40.1)	9.3 (35.2)	6.3 (23.9)	3.2 (12.1)	0.2 (.8)	60.6 (4.3)
			20 (6.1)	9.9 (37.5)	9.6 (36.3)	9.3 (35.2)	9 (34.1)	8.7 (33)	7.8 (29.5)	4.8 (18.2)	1.9 (7.2)	–	58.5 (4.1)
			25 (7.6)	7.2 (27.3)	7.1 (26.9)	7 (26.5)	6.9 (26.1)	6.8 (25.8)	6.7 (25.4)	3.5 (13.3)	0.6 (2.3)	–	56.3 (4)

Item #	Model	HP	Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI										Max. Pressure in PSI (kg/cm²)
				20	25	30	35	40	45	50	55	60	65	
558276	JP-100-C	1	5 (1.5)	24.8 (93.9)	24.7 (93.5)	23.2 (87.8)	19.8 (75)	16.5 (62.5)	13.1 (49.6)	9.5 (36)	6.3 (23.9)	3.4 (12.9)	0.5 (1.9)	66.2 (4.7)
			10 (3.1)	21.5 (81.4)	21.2 (80.3)	20.1 (76.1)	18.4 (69.7)	15.2 (57.6)	11.5 (43.6)	7.9 (29.9)	4.9 (18.6)	2.4 (9.1)	–	64.2 (4.5)
			15 (4.6)	18.1 (68.5)	17.8 (67.7)	17.4 (65.9)	16.7 (63.2)	13.8 (52.2)	10.3 (39)	6.9 (26.1)	4 (15.1)	1.3 (4.9)	–	62.1 (4.4)
			20 (6.1)	14.4 (54.5)	14.3 (54.2)	14.2 (53.8)	14.6 (55.3)	12.3 (46.7)	9 (34.1)	5.3 (20.1)	2.3 (8.7)	0.2 (.6)	–	60.1 (4.2)
			25 (7.6)	10.5 (39.8)	10.5 (39.8)	10.4 (39.4)	10.3 (39)	8.8 (33.3)	7 (26.5)	4.2 (15.9)	1.3 (4.9)	–	–	57.2 (4)

Shallow Well Jet Pumps Systems

Applications

- For supplying pressurized fresh water to rural homes, farms, and cabins
- For use where the vertical distance from the water supply does not exceed 25 feet

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motors
- Pressure switch preset at 30/50 psi
- 1-1/4" (31.7 mm) suction
- Pressure gauge included with all models
- Heavy duty steel constructed tank
- Welded malleable water connection, will not break during installations
- Tank's butyl rubber diaphragm system isolates the air charge from system water
- Fully serviceable with two-year warranty
- Condensation-reducing design

Series Specifications

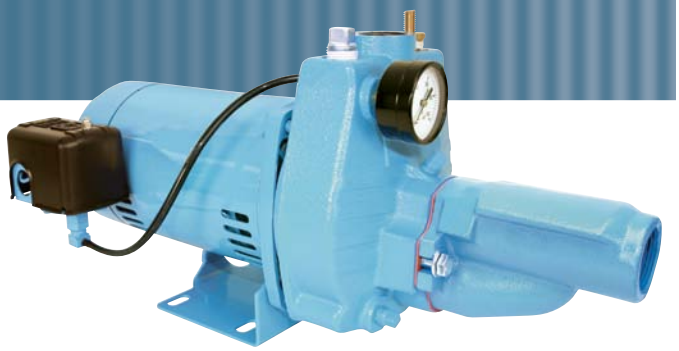
Discharge: 1" NPT (25.4 mm)

Electrical: Dual Voltage 115/230

Model Characteristics

Item #	Model	HP	Tank (Gal)	Length (in)	Width (in)	Height (in)	Ship Wt (lbs)
558277	JP-050-C/T9H	1/2	8.5	25	13	29	57
558278	JP-050-C/T14H	1/2	14	24	16	31	62

Convertible Jet Pumps



Applications

- For supplying fresh water to rural homes, farms, and cabins
- For installations where the vertical distance from the pump to the pumping water level does not exceed 90 feet (27.4 m)

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motor
- Dual voltage 115/230 V
- Pressure switch preset at 30/50 psi
- 1-1/4" (31.7 mm) suction, 1" NPT (25.4 mm) discharge
- Brass flow control valve included
- Pressure gauge included with all models
- Stainless steel motor shaft and dual ball bearings
- Precision-engineered thermoplastic impeller, diffuser, nozzle, and venturi
- Injector kit included for both shallow and deep well installations
- Fully serviceable with two-year warranty

Model Characteristics

Item #	Model	HP		Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
					20	25	30	35	40	45	50	55	60	
558281	JPC-050-C	1/2	Shallow	5 (1.5)	11.1 (42)	11 (41.6)	10.9 (41.3)	10.8 (40.9)	10.7 (40.5)	9.2 (34.8)	7.4 (28.1)	5.9 (22.4)	4.5 (17.1)	76.2 (5.3)
				15 (4.6)	8.1 (31.7)	8 (30.3)	7.9 (29.9)	7.8 (29.5)	7.7 (29.2)	7.3 (27.7)	5.9 (22.4)	4.4 (16.7)	3.1 (11.8)	71.7 (5.1)
				25 (7.6)	4.8 (18.2)	4.8 (18.2)	4.7 (17.8)	4.7 (17.8)	4.6 (17.4)	4.5 (17.1)	4.4 (16.7)	3.2 (12.1)	1.9 (7.2)	67.5 (4.8)
			Deep	20 (6.1)	–	10.7 (3.3)	9.2 (2.8)	7.8 (2.4)	6.5 (2.0)	5.4 (1.7)	4.5 (1.4)	3.6 (1.1)	2.9 (.9)	85 (5.8)
				50 (15.3)	–	6.8 (2.1)	5.8 (1.8)	4.8 (1.5)	4.0 (1.2)	3.2 (1)	2.4 (.08)	1.8 (.6)	1.3 (.4)	72 (5.1)
				80 (24.4)	–	4.1 (1.3)	3.4 (1.1)	2.8 (.85)	2.2 (.07)	1.6 (.49)	1 (.3)	0.4 (.01)	–	59 (4.2)

Item #	Model	HP		Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
					20	25	30	35	40	45	50	55	60	
558282	JPC-075-C	3/4	Shallow	5 (1.5)	18.2 (69)	17.9 (67.8)	17.7 (67)	16.6 (62.8)	14.3 (54.2)	12 (45.4)	9.7 (36.7)	7.4 (28)	5.1 (18.9)	71 (5)
				15 (4.6)	12.7 (48.1)	12.5 (47.3)	12.4 (47)	12.2 (46.2)	12 (45.5)	9.9 (37.5)	7.5 (28.4)	5.3 (20.1)	3 (11.4)	66.7 (4.7)
				25 (7.6)	7.7 (29.2)	7.5 (28.1)	7.4 (28)	7.1 (26.9)	6.9 (26.1)	6.7 (25.4)	5 (18.9)	3 (11.4)	1 (3.8)	62.4 (4.4)
			Deep	20 (6.1)	–	11.5 (43.6)	9.8 (37.1)	7.6 (28.8)	6.8 (25.8)	5.7 (21.6)	4.7 (17.8)	3.8 (14.4)	3 (11.4)	86 (6.1)
				50 (15.3)	–	7.4 (28)	6.1 (23.1)	5.1 (19.3)	4.1 (15.5)	3.3 (12.5)	2.5 (9.5)	1.9 (7.2)	1.3 (5)	73 (5.13)
				90 (27.5)	–	4.5 (17.1)	3.5 (13.3)	2.8 (10.6)	2.1 (8.0)	1.5 (5.7)	1.0 (3.8)	.5 (1.9)	–	60 (4.2)

Item #	Model	HP		Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Max. Pressure in PSI (kg/cm²)
					20	25	30	35	40	45	50	55	60	
558283	JPC-100-C	1	Shallow	5 (1.5)	20.2 (76.4)	20.1 (76.1)	19.9 (75.3)	19.5 (73.8)	16.7 (63.2)	13.9 (52.6)	11.1 (42.0)	8.3 (31.4)	5.6 (21.2)	71 (5)
				15 (4.6)	14.5 (54.8)	14.3 (54.2)	14.1 (53.4)	13.8 (52.3)	13.6 (51.5)	11.4 (43.2)	8.7 (33)	6 (22.7)	3.3 (12.5)	66.7 (4.7)
				25 (7.6)	9.1 (34.5)	8.9 (33.7)	8.8 (33.3)	8.7 (33)	8.6 (32.6)	8.5 (32.2)	6 (22.7)	3.6 (13.6)	1.2 (4.6)	62.4 (4.4)
			Deep	20 (6.1)	–	12.8 (48.5)	10.5 (39.8)	8.7 (33)	7.3 (27.7)	6.6 (25)	5.2 (19.7)	4.4 (16.7)	3.6 (13.6)	87 (6.1)
				50 (15.3)	–	8.4 (31.8)	7.2 (27.3)	6 (22.7)	5 (18.9)	4.2 (15.9)	3.4 (12.9)	2.6 (9.9)	1.9 (7.2)	74 (5.2)
				90 (27.5)	–	4.3 (16.3)	3.4 (12.9)	2.7 (10.2)	1.9 (7.2)	1.8 (6.8)	.7 (2.7)	–	–	56.7 (4)

Convertible Jet Pumps Systems

Applications

- For supplying pressurized fresh water to rural homes, farms, and cabins
- For use where the vertical distance from the water supply does not exceed 90 feet (27.4 m)
- Injector can be attached to the pump casing for shallow well performance

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motors
- Square D pressure switch preset at 30/50 psi
- 1-1/4" (31.7 mm) suction and brass flow control valve
- Pressure gauge included with all models
- Heavy duty steel constructed tank
- Welded malleable water connection, will not break during installations
- Tank's butyl rubber diaphragm system isolates the air charge from system water
- Fully serviceable with two-year warranty
- Condensation-reducing design

Model Characteristics

Item #	Model	HP	Tank (Gal)	Length (in)	Width (in)	Height (in)	Ship Wt (lbs)
558287	JP-050-C/T9H	1/2	8.5	25	13	29	57

Injector Kits

Model Characteristics

Item #	Model	Description
305446946	1/2 Injector Kit	Injector Kit for JPC-050-C
305446947	3/4 Injector Kit	Injector Kit for JPC-075-C/JPC-100-C

Utility Jet Pumps

Applications

- For pressure boosting, small underground lawn sprinklers, and a multitude of other general purpose clean water applications

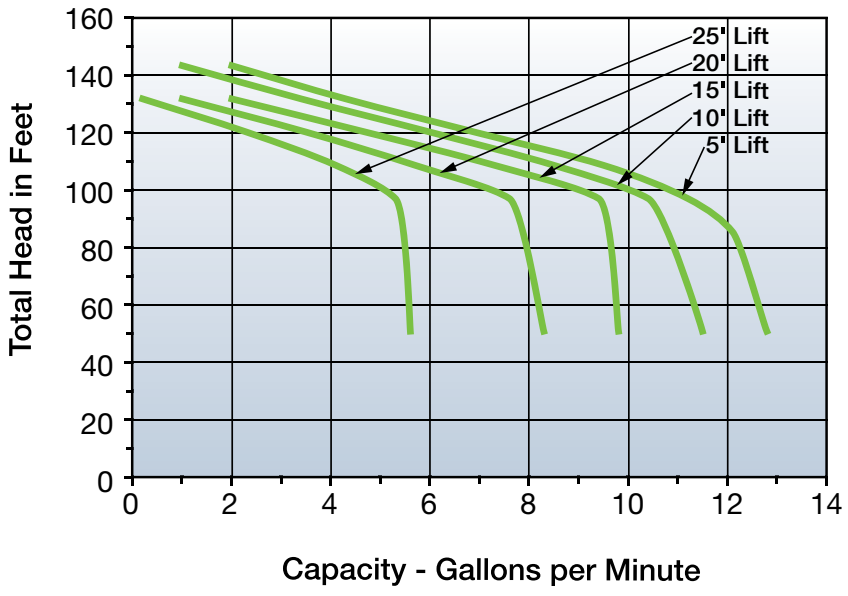
Features

- Cast iron casing and seal plate ensures durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motors; single-phase, square flange design with threaded motor shaft
- 3600 rpm, open drip proof motor with capacitor start and thermal overload protection
- Precision-engineered glass filled thermoplastic impeller
- Includes garden hose adapter, venturi, and built-in nozzle
- 8 ft grounded power cord
- Fully serviceable with two-year warranty

Model Characteristics

Item #	Model	HP	Total Suction Lift (ft/m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Shut-Off Head in feet (m)
				20	25	30	35	40	45	50	55	60	
558280	JPU-050-C	1/2	5 (1.5)	12.8 (48.5)	12.5 (47.3)	12.3 (46.6)	12.1 (45.8)	11.2 (42.4)	9.5 (36)	6.9 (26.1)	4.3 (16.3)	2.0 (7.6)	64.2 (19.6)
			10 (3.1)	11.5 (43.5)	11.3 (42.8)	11 (41.6)	10.8 (44.9)	10.4 (39.4)	8.5 (32.2)	6.0 (22.7)	3.4 (12.9)	1.0 (3.8)	62.0 (18.9)
			15 (4.6)	9.8 (31.1)	9.7 (36.7)	9.6 (36.3)	9.5 (36)	9.4 (35.6)	7.3 (27.6)	4.7 (17.8)	2.2 (8.3)	–	59.9 (18.3)
			20 (6.1)	8.3 (31.4)	8.1 (30.7)	7.8 (29.5)	7.7 (29.1)	7.6 (28.8)	5.7 (21.6)	3.5 (13.2)	1.0 (3.8)	–	57.7 (17.6)
			25 (7.6)	5.6 (21.2)	5.5 (20.8)	5.5 (20.8)	5.4 (20.4)	5.3 (20.1)	4.7 (17.8)	2.3 (8.7)	0.2 (0.8)	–	55.5 (16.9)

Performance Curve



LSP SERIES

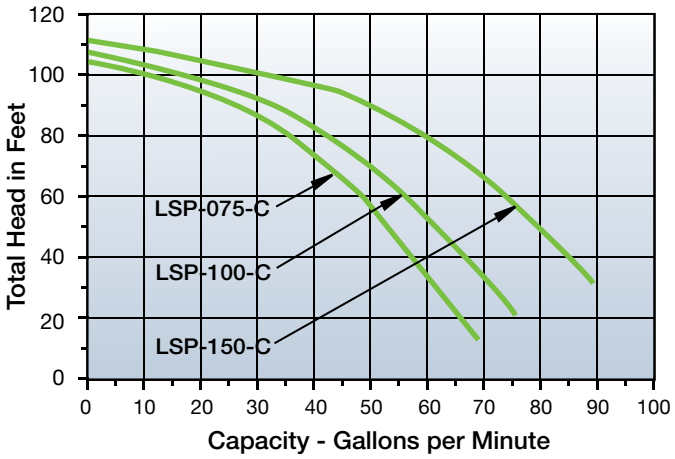
Applications

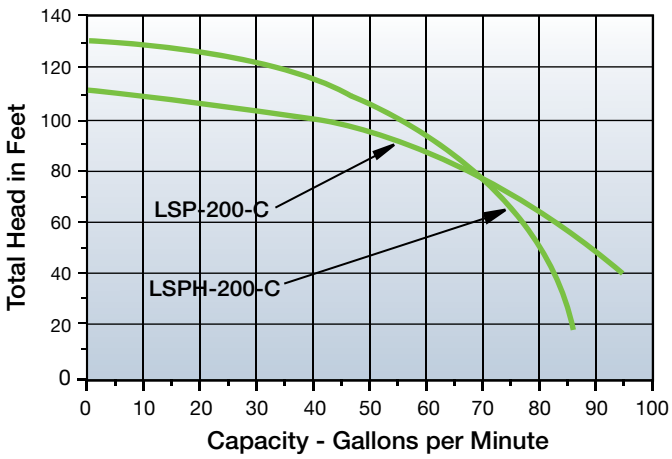
- For both residential and commercial lawn and turf sprinkler systems, irrigation, gardens, and general water transfer

Features

- Self priming
- Cast iron casing and seal plate for durability and long life
- Single-phase capacitor start, 115/230 dual voltage on 3/4 hp, 1 hp and 1-1/2 hp models. Higher than standard NEMA service factors (230 V on 2 hp model)
- Standard 5/8" rotating mechanical seal, for a reliable seal against water leakage
- 2" NPT (51 mm) suction, 1-1/2" NPT (38 mm) discharge
- Priming plug to facilitate priming
- Drain plug for easy drainage of pump
- Fully serviceable with two-year warranty
- 2 hp model uses a brass impeller

Performance Curve





Model Characteristics

Item #	Model	HP	Pump Capacity GPM (LPM) Discharge Pressure in PSI @ 5' (1.5 m) Lift				Max. Pressure in PSI (kg/cm²)
			10	20	30	40	
558297	LSP-075-C	3/4	63 (238.5)	52 (196.8)	40 (151.4)	12 (45.4)	45 (3.2)
558294	LSP-100-C	1	72 (272.5)	62 (234.7)	46 (174.1)	20 (75.7)	46 (3.3)
558295	LSP-150-C	1-1/2	90 (340.7)	80 (302.9)	64 (242.3)	40 (151.4)	47 (3.3)
558296	LSP-200-C	2	97 (367.2)	90 (340.7)	74 (280.1)	47 (177.9)	48 (3.4)
558298	LSPH-200-C	2	84 (318)	81 (306.6)	73 (276.3)	58 (219.6)	57 (4.1)

CP SERIES

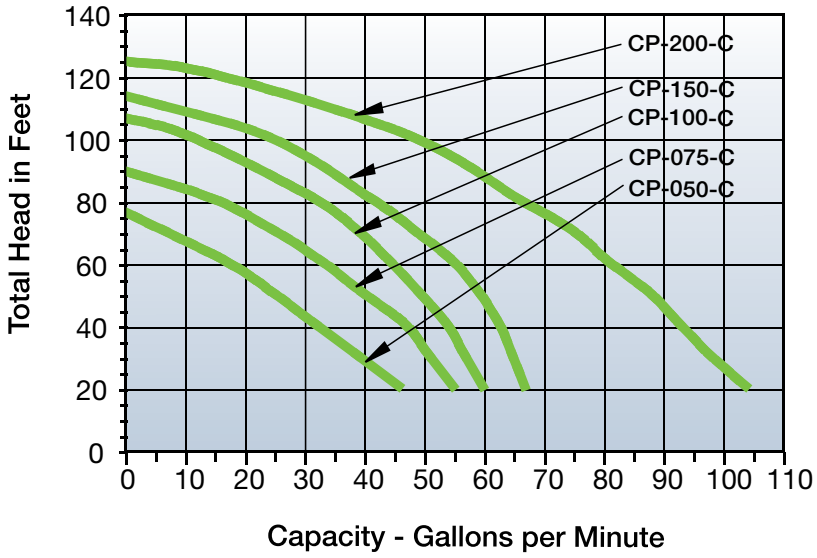
Applications

- For water transfer, booster, and lift applications for irrigation

Features

- 115/230 V 60 Hz (2 hp is 230 V Only)
- 3600 rpm, single-phase; square flange motor
- Thermal overload protection and higher than standard NEMA service factor
- Glass-filled thermoplastic impeller for increased efficiency
- Large drain hole and shaft flinger in adapter bracket prevents moisture from damaging bearings
- Ports for air bleeding when priming and drainage to prevent frost damage
- Fully serviceable with two-year warranty

Performance Curve



Model Characteristics

Item #	Model	HP	Suction NPT	Discharge NPT	Total Head in Feet Capacities in U.S. GPM (LPM)								
					20	30	40	50	60	70	80	100	120
558240	CP-050-C	1/2	1-1/4"	1"	46 (174)	38 (144)	32 (121)	24 (91)	15 (57)	–	–	–	–
558241	CP-075-C	3/4	1-1/4"	1"	55 (208)	52 (197)	47 (178)	38 (144)	32 (121)	25 (95)	15 (57)	–	–
558242	CP-100-C	1	1-1/4"	1"	60 (227)	57 (216)	54 (205)	49 (186)	44 (167)	39 (148)	32 (121)	12 (46)	–
558243	CP-150-C	1-1/2	1-1/4"	1"	67 (254)	65 (246)	63 (239)	59 (224)	54 (205)	49 (186)	39 (148)	24 (91)	–
558244	CP-200-C	2	1-1/2"	1-1/4"	104 (394)	97 (367)	92 (348)	88 (333)	81 (307)	75 (284)	66 (250)	48 (182)	15 (57)

RL SERIES

Applications

- For well water storage
- For pressure-boosting applications in homes, mobile homes, and office buildings

Features

- Vertical and horizontal tanks
- Heavy-duty steel construction
- Appliance-quality paint finish over primer coat
- Welded malleable water connection, will not break during installations
- Butyl rubber diaphragm system isolates the air charge from system water
- Condensation-reducing design
- Five-year warranty
- ANSI/NSF standard 61 approved

Performance Curve

Item #	Model	Diameter		Length		System Connect	Volume		Shipping (Box) Volume		Shipping Weight	
		in	cm	in	cm		gal	liter	cu. ft	cu. m	lbs	Kg
604452	RL2	8	20	12	30	3/4" FNPT	2.1	8	0.5	0.02	5	2.3
604453	RL4	11	27.8	14.5	37	3/4" FNPT	4.8	18.2	1.1	0.03	10	4.6
604529	RL6H	11.4	28.9	17.5	44.4	3/4" FNPT	5.3	20	1.5	0.04	13.3	6
604493	RL14H	16.3	41.4	20.8	52.8	3/4" FNPT	14	53	3.7	0 .11	27	12.3
604457	RL20	16	40.6	29	73.7	1" NPT	20	75.7	4.73	0.13	35	15.9
604449	RL33	16	40.6	42.75	108.6	1" NPT	33	124.9	6.93	0.2	55	25
604459	RL44	21	53.3	36.25	92.1	1-1/4" NPT	44	166.5	10.17	0.11	65	29.5
604530	RL62	21	53.3	48	122	1-1/4" NPT	62	234.7	7.6	0.22	82	37.2
604541	RL81	21	53.3	62	157.5	1-1/4" NPT	81	306.6	16.5	0.46	104	47.2
604542	RL85	26	66	44.5	113	1-1/4" NPT	85	321.8	8.3	0.24	121	54.9
604531	RL119	26	66	59.75	150.5	1-1/4" NPT	119	450.5	26.2	0.73	160	72.6

Total drawdown assumes tank pre-charge set at 2 psi below cut-in pressure.
Drawdown can be affected by many factors, including temperature, pressure and elevation.

Quick Sizing Chart

Model	Total Tank Volume		Total Drawdown					
			20/40		30/50		40/60	
	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
RL2	2.1	8	0.8	2.9	0.78	2.5	0.6	2.1
RL4	4.8	18.2	1.7	6.6	1.5	506	1.3	4.8
RL6H	5.3	20	1.9	7.3	1.6	6.2	1.4	5.4
RL14H	14	53	5.1	19.3	4.8	18.1	3.8	14.2
RL20	20	80	8.1	30.5	6.8	25.8	5.9	22.3
RL33	33	130	13.3	50.3	11.3	42.6	9.7	36.8
RL44	44	170	17.7	67.1	15	56.8	13	49.1
RL62	62	234.7	25	94.6	21.1	117.7	18.3	69.3
RL81	81	306.6	32.6	123.4	27.6	104.5	23.9	90.5
RL85	85	321.8	34.3	129.8	29	109.8	25.1	95
RL119	119	450.5	48	181.7	40.6	153.7	35.1	132.9

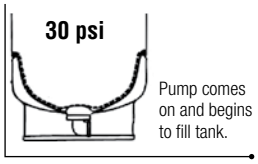
Total drawdown assumes tank pre-charge set at 2 psi below cut in-pressure.
Drawdown can be affected by many factors, including temperature, pressure and elevation.

RL SERIES

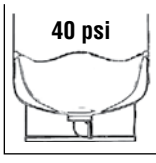
Tank Replacement Guide

Flexcon				Amtrol								
Little Giant	Challenger	Well-Rite	H2 Pro	Well-X-Trol	Wel-Flow	Champion	How 2 Tank	Goulds A.O. Smith	State Perma Tank	WellMate	Pro-Source	Standard Galvanized
RL2	PRJ6	PJR6	PJR6	WX-101	WF-6	CM1001	HT20	V6P	PIL-2	WM8L	N/A	5 gal
RL6H	PJR20S	PJR20S	PJR20S	WX105	N/A	N/A	N/A	N/A	N/A	WM25L	PS15-502	18 gal
RL20	PC66	WR60	WWT-20	WX-202	WF60	CM4202	HT20	V60	PAD-20	WM6	PS42T-T02	42 gal
RL33	PC122	WR120	WWT-35	WX-203	WF1100	CM8003	HT32	V100	WM9	WM9	PS82T-T05	82 gal
RL44	PC144	WR140	WWT-45	WX-250	WF140	CM10050	HT44	V140	WM14	WM14	PS120-T50	82 gal
RL62	PC211	WR200	WWT-65	WX-251	WF200	CM12051	HT44	V200	PAD-52	WM20	PS200-T51	220 gal
RL85	PC266	WR260	WWT-85	WX-302	WF260	CM17002	HT86	V250	PAD-86	WM25L	PS220-T52	220 gal
RL119	PC366	WR360	WWT-120	WX-350	WF360	CM22050	HT119	V350	PAD-119	WM35	N/A	315 gal

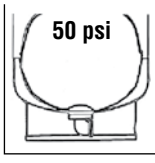
Add "S" for horizontal models with pump stand. All models: 20 psi/1.9 bar pre-charge. Maximum Working Pressure: All models 125 psi/8.5 bar. Maximum Working Temperature: All models 140 ° F/60 °C



Pump comes on and begins to fill tank.



Pump continues to run compressing air charge in tank.



Pump shuts off. Drawdown water is available on demand.

Tank Sizing Information

There are three factors to consider when selecting the proper size for your water system:

- The pump delivery rate in gallons/liters per minute (gpm/lpm).
- The recommended minimum running time of the pump.
- The minimum (cut-in) and maximum (cut-out) system pressure parameters.

Once these factors are known, the following calculations will determine, in most cases, the correct model to meet your specifications.*

Calculating Drawdown

1) Pump delivery rate. _____ gpm/lpm

2) Desired minimum pump running time in minutes (1 minute, 45 seconds = 1.75 minutes). _____ Minutes

3) Multiply line #1 by line #2. This is the minimum drawdown or available water volume required.* _____ Gallons/Liters

Calculating Tank Size

4) Minimum system pressure (cut-in). _____ PSIG/kPa/bar

5) Maximum system pressure (cut-out). _____ PSIG/kPa/bar

6) Using table #2, find the drawdown factor applicable to lines #4 and #5. _____ Factor

7) Divide line #3 by line #6 to determine the minimum total volume required. _____ Gallons/Liters

8) Refer to the design data and select the model with the lowest total capacity that is greater than or equal to line #7. _____ Model

Example: An application using an 8 gpm pump with a minimum run time of 1 minute and a 30/50 PSIG system pressure range:

$$\frac{8 \text{ gpm} \times 1 \text{ minute}}{.30 \text{ (factor)}} = 26.7 \text{ gallon minimum tank capacity}$$

*If a volume of water needed is greater than the amount calculated on line #3, enter that amount on line #3 in place of the calculated volume.

Draw Down Factors

Maximum System Pressure (Cut-Out) PSIG/(kPa)/bar	Minimum System Pressure (Cut-In) -- PSIG/(kPa)/bar																	
	20 (138) 1.38	25 (173) 1.72	30 (207) 2.06	35 (242) 2.41	40 (276) 2.76	45 (311) 3.10	50 (345) 3.45	55 (380) 3.80	60 (414) 4.16	65 (449) 4.48	70 (483) 4.83	75 (518) 5.17	80 (552) 5.51	85 (587) 5.86	90 (621) 6.20	95 (656) 6.55	100 (690) 6.89	105 (725) 7.24	110 (759) 7.58
30/(207)/2.06	.21																	
35/(242)/2.41	.28	.19																
40/(276)/2.76	.34	.26	.17															
45/(311)/3.10	.39	.32	.24	.16														
50/(345)/3.45	.44	.37	.30	.22	.15													
55/(380)/3.80	.47	.41	.34	.28	.21	.14												
60/(414)/4.16	.50	.44	.38	.32	.26	.19	.13											
65/(449)/4.48	.53	.48	.42	.36	.30	.24	.18	.12										
70/(483)/4.83	.56	.50	.45	.40	.34	.29	.23	.17	.11									
75/(518)/5.17		.53	.48	.43	.38	.32	.27	.22	.16	.11								
80/(552)/5.51			.50	.46	.41	.36	.31	.26	.21	.15	.10							
85/(587)/5.86				.48	.43	.39	.34	.29	.24	.20	.15	.10						
90/(621)/6.20					.46	.42	.37	.32	.28	.23	.19	.14	.09					
95/(656)/6.55						.44	.40	.35	.31	.27	.22	.18	.13	.09				
100/(690)/6.89							.42	.38	.34	.30	.26	.21	.17	.13	.09			
105/(725)/7.24								.41	.37	.33	.29	.25	.20	.16	.13	.08		
110/(759)/7.58									.39	.35	.31	.27	.24	.20	.16	.12	.08	
115/(794)/7.92										.38	.34	.30	.26	.23	.19	.15	.11	.08
120/(828)/8.27											.36	.33	.29	.25	.22	.18	.15	.11
125/(863)/8.62												.35	.32	.28	.25	.21	.18	.14

In keeping with current industry standards, drawdown factors are based on Boyle's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and gauge, actual precharge pressure and operating temperature of the system.

5 GPM
Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 hp to 1 hp single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal, preventing system drain-back
- Stainless steel bearing sleeve
- Acetal disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

Series Specifications

Capacity: 5 gpm (19 lpm)
Discharge: 1-1/4" FNPT (31.7 mm)
Electrical: 115 V, 230 V

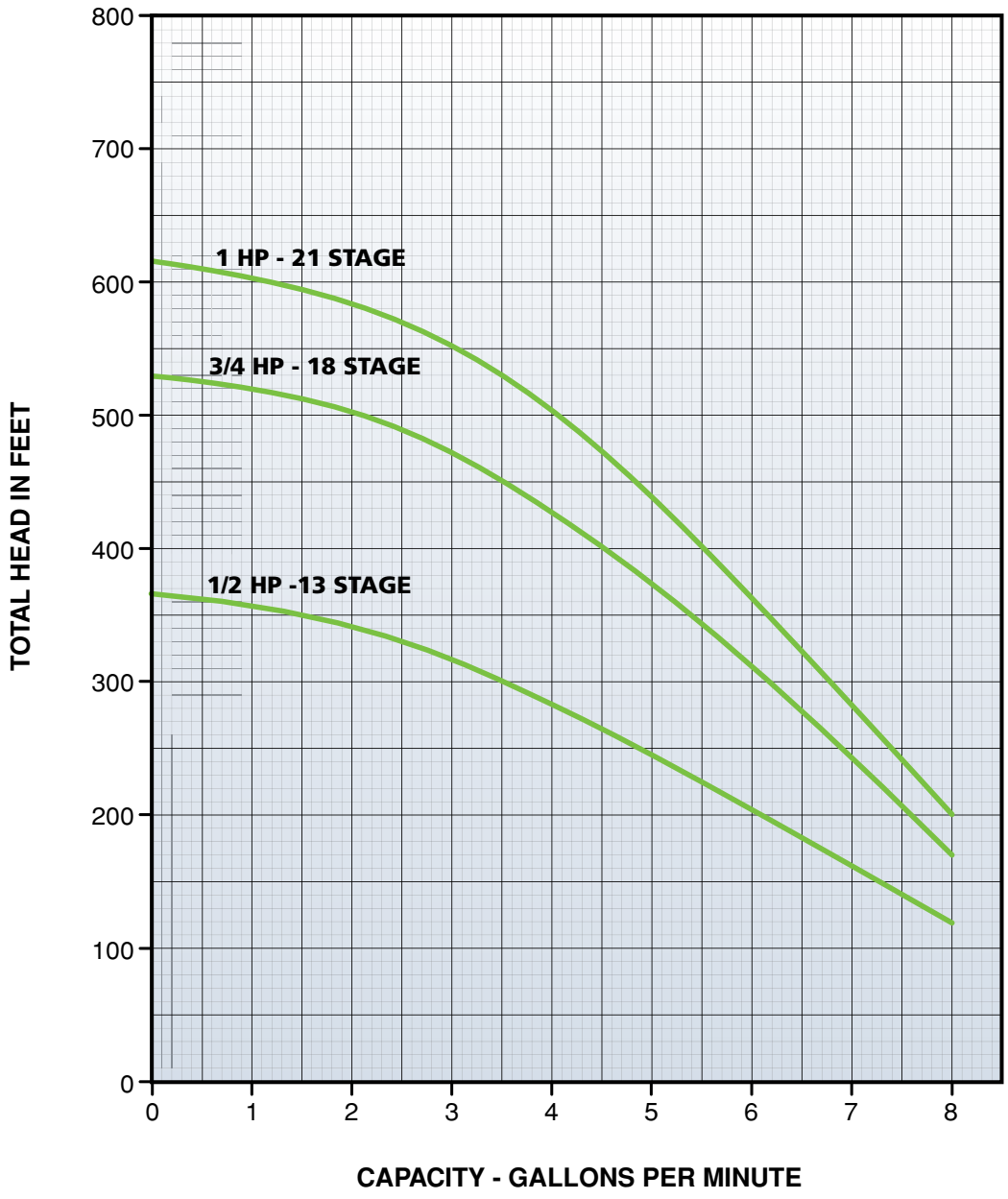
Model Characteristics

Thermoplastic Discharge									
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558551	W5G05S13-21P	1/2	13	115	2	364 (110.9 m)	26	–	–
558537	W5G05S13-22P	1/2	13	230	2	364 (110.9 m)	26	–	–
558554	W5G05S13-32P	1/2	13	230	3	364 (110.9 m)	25	558814	558815
558552	W5G07S18-22P	3/4	18	230	2	528 (160.9 m)	29	–	–
558555	W5G07S18-32P	3/4	18	230	3	528 (160.9 m)	30	558823	558824
558553	W5G10S21-22P	1	21	230	2	614 (187.1 m)	33	–	–
558556	W5G10S21-32P	1	21	230	3	614 (187.1 m)	34	558833	558834

Stainless Steel Discharge									
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558575	W5G05S13-21S	1/2	13	115	2	364 (110.9 m)	26	–	–
558599	W5G0S13-22S	1/2	13	230	2	364 (110.9 m)	26	–	–
558578	W5G05S13-32S	1/2	13	230	3	364 (110.9 m)	25	558814	558815
558576	W5G07S18-22S	3/4	18	230	2	528 (160.9 m)	29	–	–
558579	W5G07S18-32S	3/4	18	230	3	528 (160.9 m)	30	558823	558824
558577	W5G10S21-22S	1	21	230	2	614 (187.1 m)	33	–	–
558580	W5G10S21-32S	1	21	230	3	614 (187.1 m)	34	558833	558834

5 GPM
Thermoplastic and Stainless Steel

Performance Curve



5 GPM
Thermoplastic and Stainless Steel

Capacities in U.S. Gallons per Minute – 5 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																					Max. Press.	
				20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet
W5G05S13	1/2	13	0						8	7	7	6	6	5	4	3									156	364
			20				7	7	6	6	5	5	4	3	3	2										
			30			7	7	6	6	5	5	4	4	3	2											
			40		7	7	6	6	5	5	4	4	3	2												
			50	7	7	6	6	5	5	4	4	3	2													
			60	7	6	6	5	5	4	4	3	2														
			80	6	5	5	4	4	3	2	1															
Shut Off PSI				149	140	131	122	114	105	96	88	79	70	53	45	27										

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																					Max. Press.	
				20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet
W5G07S18	3/4	18	0									7	7	7	6	6	5	5	4	3					229	528
			20							7	7	7	6	6	6	5	4	4	3	2						
			30					8	7	7	7	6	6	6	5	5	4	4	2							
			40				8	7	7	7	6	6	6	5	5	4	3	3								
			50			7	7	7	6	6	6	6	5	5	5	4	3	2								
			60	7	7	7	7	6	6	6	6	5	5	5	4	3	2								
			80	7	7	6	6	6	6	5	5	5	4	4	3	3										
Shut Off PSI				220	211	203	194	185	177	168	159	151	142	125	116	99	81	73	55	38						

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																					Max. Press.	
				20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet
W5G10S21	1	21	0										8	7	7	6	6	6	5	5	4	4			266	614
			20								7	7	7	6	6	6	5	5	5	4	3	2				
			30							7	7	7	7	6	6	5	5	5	4	3	2	2				
			40						7	7	7	6	6	6	6	5	5	4	4	3	2	1				
			50					7	7	7	6	6	6	6	5	5	4	4	3	2	1					
			60				7	7	7	6	6	6	6	5	5	5	4	4	3	1						
			80	7	7	7	7	6	6	6	6	6	5	5	5	4	3	3	2							
Shut Off PSI				257	248	239	231	222	213	205	196	187	179	161	153	135	118	109	92	75	58	49				

8 GPM
Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 hp to 1 hp single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal, preventing system drain-back
- Stainless steel bearing sleeve
- Acetal disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

Series Specifications

Capacity: 8 gpm (30 lpm)
Discharge: 1-1/4" FNPT (31.7 mm)
Electrical: 115 V, 230 V

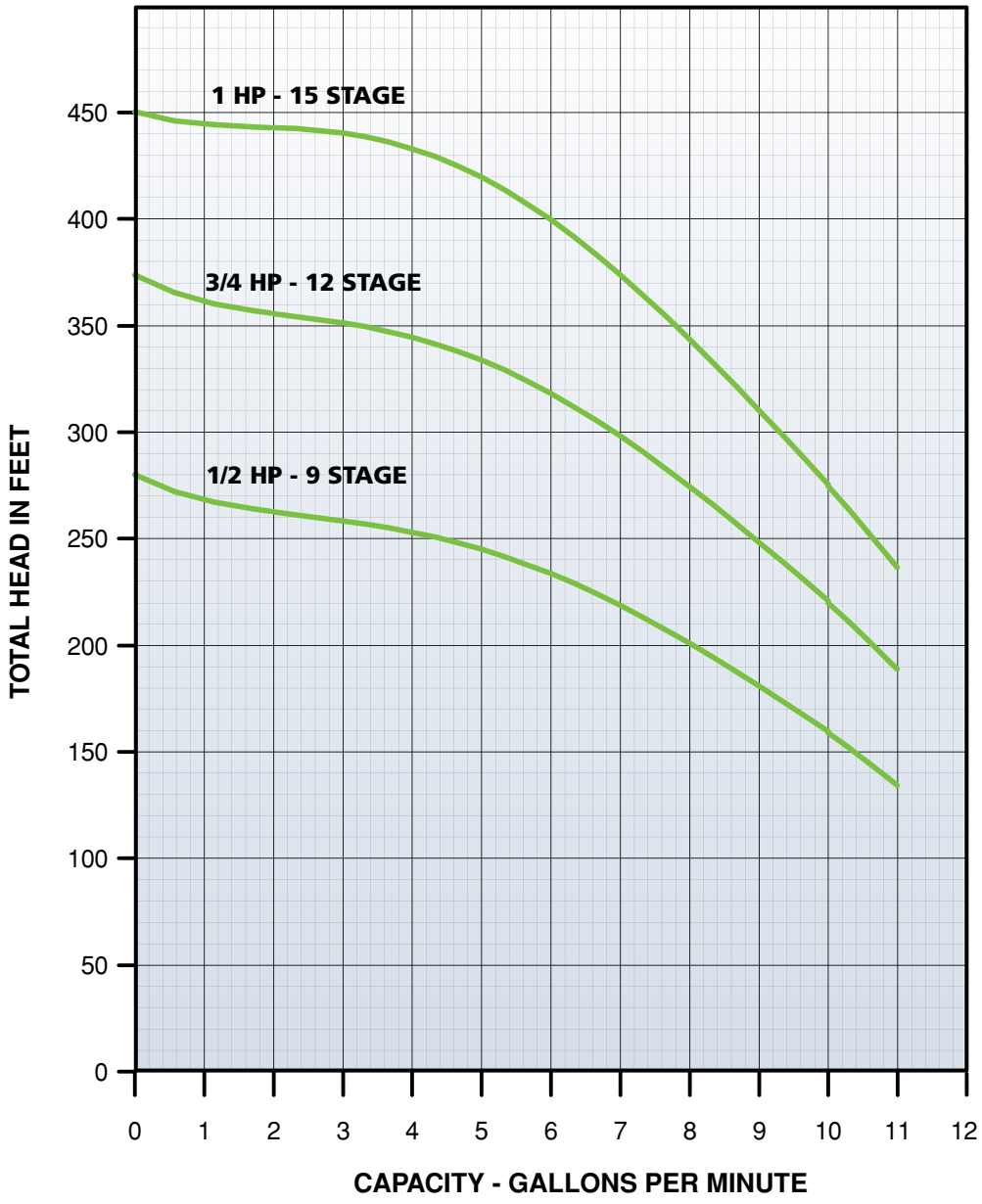
Model Characteristics

Thermoplastic Discharge									
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558557	W8G05S9-21P	1/2	9	115	2	280 (85.3 m)	24	–	–
558558	W8G05S9-22P	1/2	9	230	2	280 (85.3 m)	24	–	–
558561	W8G05S9-32P	1/2	9	230	3	280 (85.3 m)	24	558814	558815
558559	W8G07S12-22P	3/4	12	230	2	374 (113.9 m)	28	–	–
558562	W8G07S12-32P	3/4	12	230	3	374 (113.9 m)	28	558823	558824
558560	W8G10S15-22P	1	15	230	2	450 (137.1 m)	33	–	–
558563	W8G10S15-32P	1	15	230	3	450 (137.1 m)	33	558833	558834

Stainless Steel Discharge									
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558581	W8G05S9-21S	1/2	9	115	2	280 (85.3 m)	24	–	–
558582	W8G05S9-22S	1/2	9	230	2	280 (85.3 m)	24	–	–
558585	W8G05S9-32S	1/2	9	230	3	280 (85.3 m)	24	558814	558815
558583	W8G07S12-22S	3/4	12	230	2	374 (113.9 m)	28	–	–
558586	W8G07S12-32S	3/4	12	230	3	374 (113.9 m)	28	558823	558824
558584	W8G10S15-22S	1	15	230	2	450 (137.1 m)	33	–	–
558587	W8G10S15-32S	1	15	230	3	450 (137.1 m)	33	558833	558834

8 GPM
Thermoplastic and Stainless Steel

Performance Curve



8 GPM
Thermoplastic and Stainless Steel

Capacities in U.S. Gallons per Minute – 8 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	380	350	400	450	500	PSI	Feet
W8G05S9	1/2	9	0								10.0	9.0	8.0	4.3							115	280
			20						9.7	8.7	7.7	6.6	4.8									
			30					9.5	8.5	7.6	6.4	4.4										
			40				9.4	8.4	7.4	6.2	4.0											
			50			9.2	8.2	7.3	5.9	3.5												
			60		9.0	8.1	7.1	5.7	2.9													
			80	7.8	6.7	5.0																
Shut Off PSI				113	104	95	87	78	69	61	52	43	35	13								

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	380	350	400	450	500	PSI	Feet
W8G07S12	3/4	12	0											9.0	6.9	3.0					152	374
			20									9.8	9.1	7.1	3.4							
			30								9.7	9.0	8.3	5.8								
			40							9.6	8.9	8.2	7.3	3.8								
			50						9.5	8.8	8.0	7.2	6.0									
			60					9.4	8.7	7.9	7.0	5.8	4.2									
			80		9.9	9.2	8.5	7.7	6.7	5.4	3.6											
Shut Off PSI				153	145	136	127	119	110	101	93	84	75	54	32	10						

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	380	350	400	450	500	PSI	Feet
W8G10S15	1	15	0												9.2	7.9	6.1				186	450
			20											9.3	8.0	6.3						
			30										10.0	8.7	7.4	4.8						
			40									9.9	9.4	8.1	6.5	2.4						
			50								9.9	9.3	8.8	7.5	5.1							
			60							9.8	9.2	8.7	8.2	6.7	2.9							
			80					9.6	9.0	8.5	8.0	7.5	6.8	3.4								
Shut Off PSI				186	178	169	160	152	143	134	126	117	108	87	65	43	22					

12 GPM
Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 hp to 1-1/2 hp single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal, preventing system drain-back
- Stainless steel bearing sleeve
- Acetal disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

Series Specifications

Capacity: 12 gpm (45 lpm)
Discharge: 1-1/4" FNPT (31.7 mm)
Electrical: 115 V, 230 V

Model Characteristics

Thermoplastic Discharge

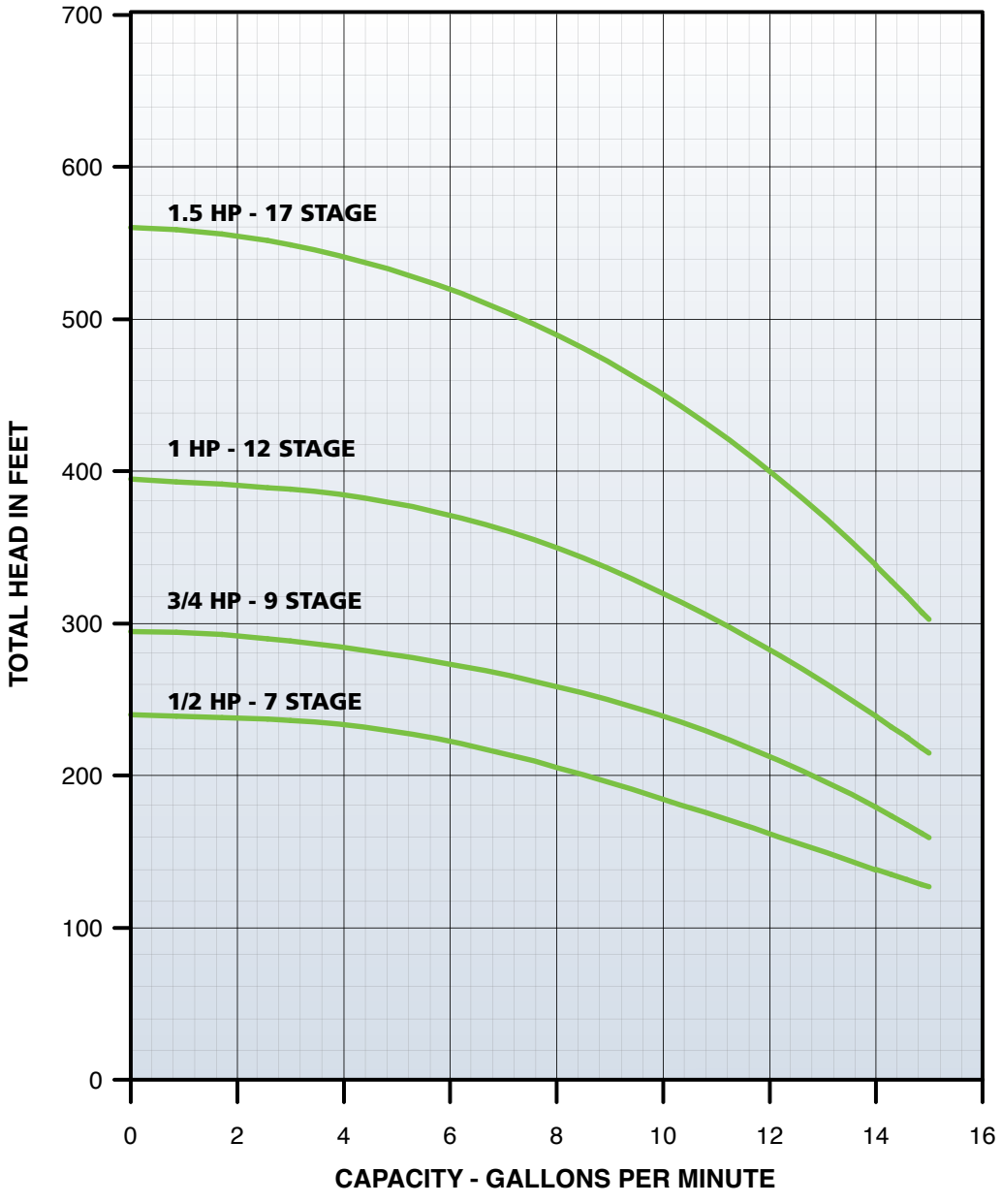
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558564	W12G05S7-21P	1/2	7	115	2	240 (73.1 m)	24	–	–	–
558536	W12G05S7-31P	1/2	7	115	3	240 (73.1 m)	24	2801044915	–	–
558565	W12G05S7-22P	1/2	7	230	2	240 (73.1 m)	24	–	–	–
558569	W12G05S7-32P	1/2	7	230	3	240 (73.1 m)	24	558814	558815	–
558566	W12G07S9-22P	3/4	9	230	2	295 (89.9 m)	28	–	–	–
558570	W12G07S9-32P	3/4	9	230	3	295 (89.9 m)	28	558823	558824	–
558567	W12G10S12-22P	1	12	230	2	395 (120.3 m)	31	–	–	–
558571	W12G10S12-32P	1	12	230	3	395 (120.3 m)	32	558833	558834	–
558568	W12G15S17-22P	1-1/2	17	230	2	560 (170.6 m)	38	–	–	–
558572	W12G15S17-32P	1-1/2	17	230	3	560 (170.6 m)	39	–	–	558842

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558588	W12G05S7-21S	1/2	7	115	2	240 (73.1 m)	24	–	–	–
558600	W12G05S7-31S	1/2	7	115	3	240 (73.1 m))	24	2801044915	–	–
558589	W12G05S7-22S	1/2	7	230	2	240 (73.1 m)	24	–	–	–
558593	W12G05S7-32S	1/2	7	230	3	240 (73.1 m)	24	558814	558815	–
558590	W12G07S9-22S	3/4	9	230	2	295 (89.9 m)	28	–	–	–
558594	W12G07S9-32S	3/4	9	230	3	295 (89.9 m)	28	558823	558824	–
558591	W12G10S12-22S	1	12	230	2	395 (120.3 m)	31	–	–	–
558595	W12G10S12-32S	1	12	230	3	395 (120.3 m)	32	558833	558834	–
558592	W12G15S17-22S	1-1/2	17	230	2	560 (170.6 m)	38	–	–	–
558596	W12G15S17-32S	1-1/2	17	230	3	560 (170.6 m)	39	–	–	558842

12 GPM
Thermoplastic and Stainless Steel

Performance Curve



12 GPM
Thermoplastic and Stainless Steel

Capacities in U.S. Gallons per Minute – 12 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																						Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750		PSI	Feet
W12G05S7	1/2	7	0							14.0	12.1	10.2	8.6													104	240
			20					13.4	11.5	9.7	8.1	5.5															
			30				13.2	11.2	9.4	7.8	4.8																
			40			12.9	10.9	9.2	7.5	3.9																	
			50		12.6	10.6	9.0	7.2	3.0																		
			60	12.2	10.3	8.7	6.8																				
			80	8.2	5.8																						
Shut Off PSI				95	87	78	69	61	52	43	35	26	17														

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																						Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750		PSI	Feet
W12G07S9	3/4	9	0									13.9	12.8	8.9												128	295
			20							13.6	12.4	11.1	9.3														
			30						13.4	12.2	10.8	9.0	6.4														
			40					13.2	12.0	10.6	8.6	6.0															
			50				13.1	11.8	10.3	8.3	5.5																
			60		14.0	12.9	11.6	10.0	7.9	4.9																	
			80	12.5	11.2	9.4	7.1	3.8																			
Shut Off PSI				119	110	102	93	84	76	67	58	50	41	19													

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																						Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750		PSI	Feet
W12G10S12	1	12	0											13.6	10.9	8.2										171	395
			20										13.8	11.1	8.4												
			30									13.7	12.6	10.0	6.2												
			40								13.5	12.4	11.3	8.7													
			50							13.3	12.2	11.2	10.2	6.7													
			60						13.2	12.1	11.0	10.0	8.9														
			80			13.9	12.8	11.7	10.7	9.7	8.5	6.8	3.6														
Shut Off PSI				162	154	145	136	128	119	110	102	93	84	63	41	19											

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																						Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750		PSI	Feet
W12G15S17	1-1/2	17	0													13.7	11.9	10.0	7.4							242	560
			20												13.8	12.1	10.1	7.7	3.2								
			30												13.1	11.2	9.1	6.0									
			40											13.9	12.2	10.3	7.9	3.7									
			50											13.2	11.4	9.3	6.3										
			60											12.4	10.5	8.1	4.1										
			80								13.9	13.2	12.5	10.6	8.3	4.6											
Shut Off PSI				234	225	217	208	199	191	182	173	165	156	134	113	91	69	48	26								

16 GPM
Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 3/4 to 1-1/2 hp single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal, preventing system drain-back
- Stainless steel bearing sleeve
- Acetal disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

Series Specifications

Capacity: 16 gpm (61 lpm)
Discharge: 1-1/4" FNPT (31.7 mm)
Electrical: 230 V

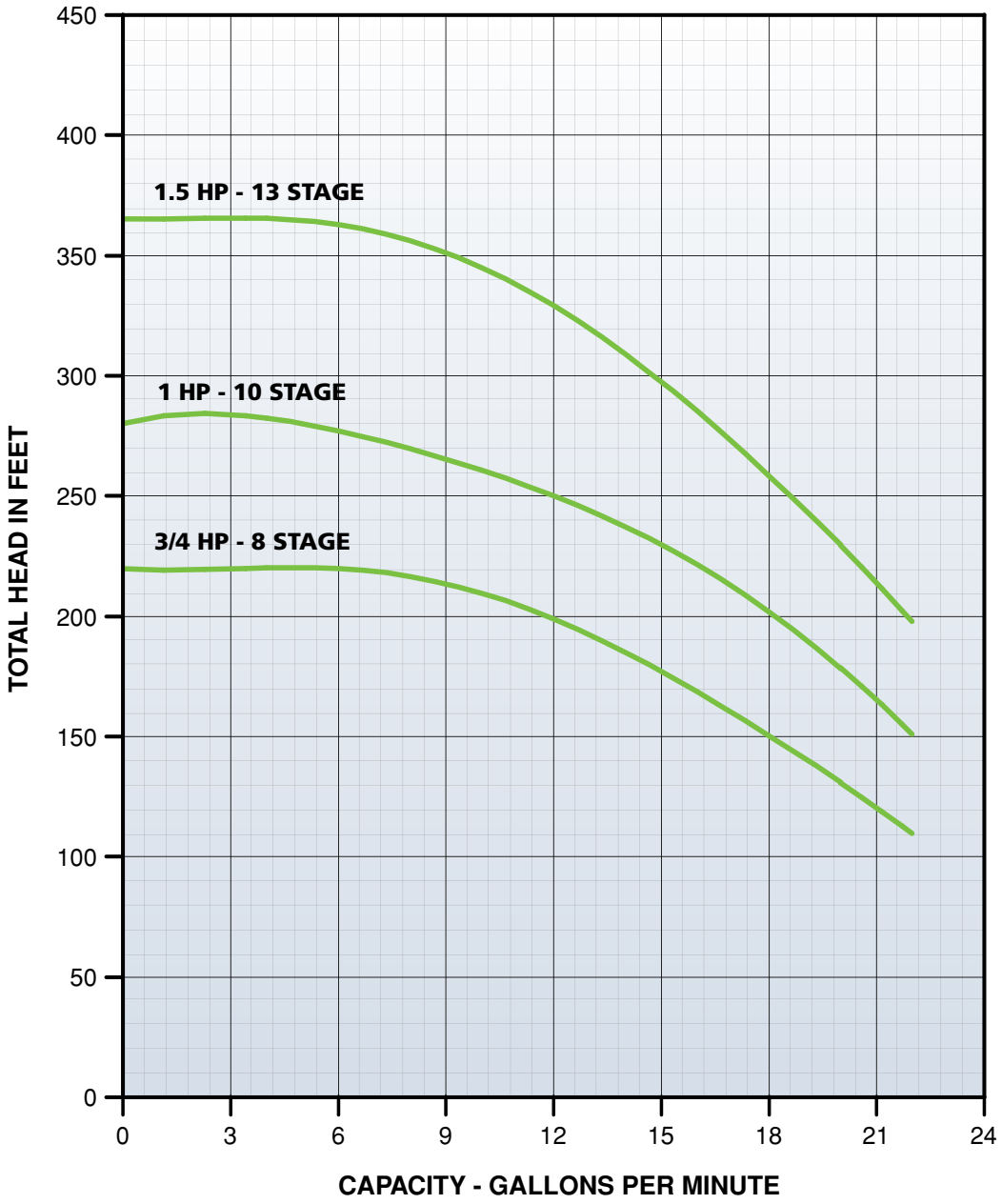
Model Characteristics

Thermoplastic Discharge										
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558601	W16G07S8-22P	3/4	8	230	2	220 (67.1 m)	28	-	-	-
558602	W16G07S8-32P	3/4	8	230	3	220 (67.1 m)	27	558823	558824	-
558603	W16G10S10-22P	1	10	230	2	280 (85.3 m)	31	-	-	-
558604	W16G10S10-32P	1	10	230	3	280 (85.3 m)	30	558833	558834	-
558605	W16G15S13-22P	1-1/2	13	230	2	369 (112.5 m)	40	-	-	-
558606	W16G15S13-32P	1-1/2	13	230	3	369 (112.5 m)	39	-	-	558842

Stainless Steel Discharge										
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558607	W16G07S8-22S	3/4	8	230	2	220 (67.1 m)	28	-	-	-
558608	W16G07S8-32S	3/4	8	230	3	220 (67.1 m)	27	558823	558824	-
558609	W16G10S10-22S	1	10	230	2	280 (85.3 m)	31	-	-	-
558610	W16G10S10-32S	1	10	230	3	280 (85.3 m)	20	558833	558834	-
558611	W16G15S13-22S	1-1/2	13	230	2	369 (112.5 m)	40	-	-	-
558612	W16G15S13-32S	1-1/2	13	230	3	369 (112.5 m)	39	-	-	558842

16 GPM
Thermoplastic and Stainless Steel

Performance Curve



16 GPM
Thermoplastic and Stainless Steel

Capacities in U.S. Gallons per Minute – 16 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																		Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	PSI	Feet
W16G07S8	3/4	8	0							19	17	15	12										95	220
			10						19	17	14	11												
			20				20	18	16	14	10													
			30			20	18	16	13	10														
			40		20	18	16	13	9															
			50	20	17	15	13	7																
			60	17	15	12	6																	
			70	14	11																			
			80	11																				
Shut Off PSI				87	78	69	61	52	43	35	26	18	9											

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																		Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	PSI	Feet
W16G10S10	1	10	0									20	18	12									121	280
			10								20	18	16	7										
			20							19	18	15	13											
			30						19	17	15	12	8											
			40				20	19	17	15	12	7												
			50			20	19	17	14	11	6													
			60		20	18	16	14	10	5														
			70	20	18	16	13	10	4															
			80	18	16	13	9																	
			90	15	12	8																		
			100	12	8																			
			110	7																				
Shut Off PSI				113	104	95	87	78	69	61	52	43	35	13										

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																		Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	PSI	Feet
W16G15S13	1-1/2	13	0											19	15	9							160	369
			10											17	13									
			20									20	19	15	10									
			30								20	19	17	13										
			40							20	18	17	15	10										
			50						20	18	17	15	13	5										
			60					19	18	16	15	13	11											
			70				19	18	16	15	13	11	6											
			80		20	19	17	16	14	13	10	5												
			90	20	19	17	16	14	12	9	4													
			100	19	17	15	14	12	9															
			110	17	15	14	12	8																
			120	15	13	11	7																	
			130	13	11	7																		
			140	10	6																			
			150	5																				
			160																					
Shut Off PSI				151	143	134	125	117	108	99	91	82	73	52	30	8								

22 GPM
Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 3/4, 1, and 1-1/2 hp single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal, preventing system drain-back
- Stainless steel bearing sleeve
- Acetal disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

Series Specifications

Capacity: 22 gpm (83 lpm)
Discharge: 1-1/4" FNPT (31.7 mm)
Electrical: 230 V

Model Characteristics

Thermoplastic Discharge

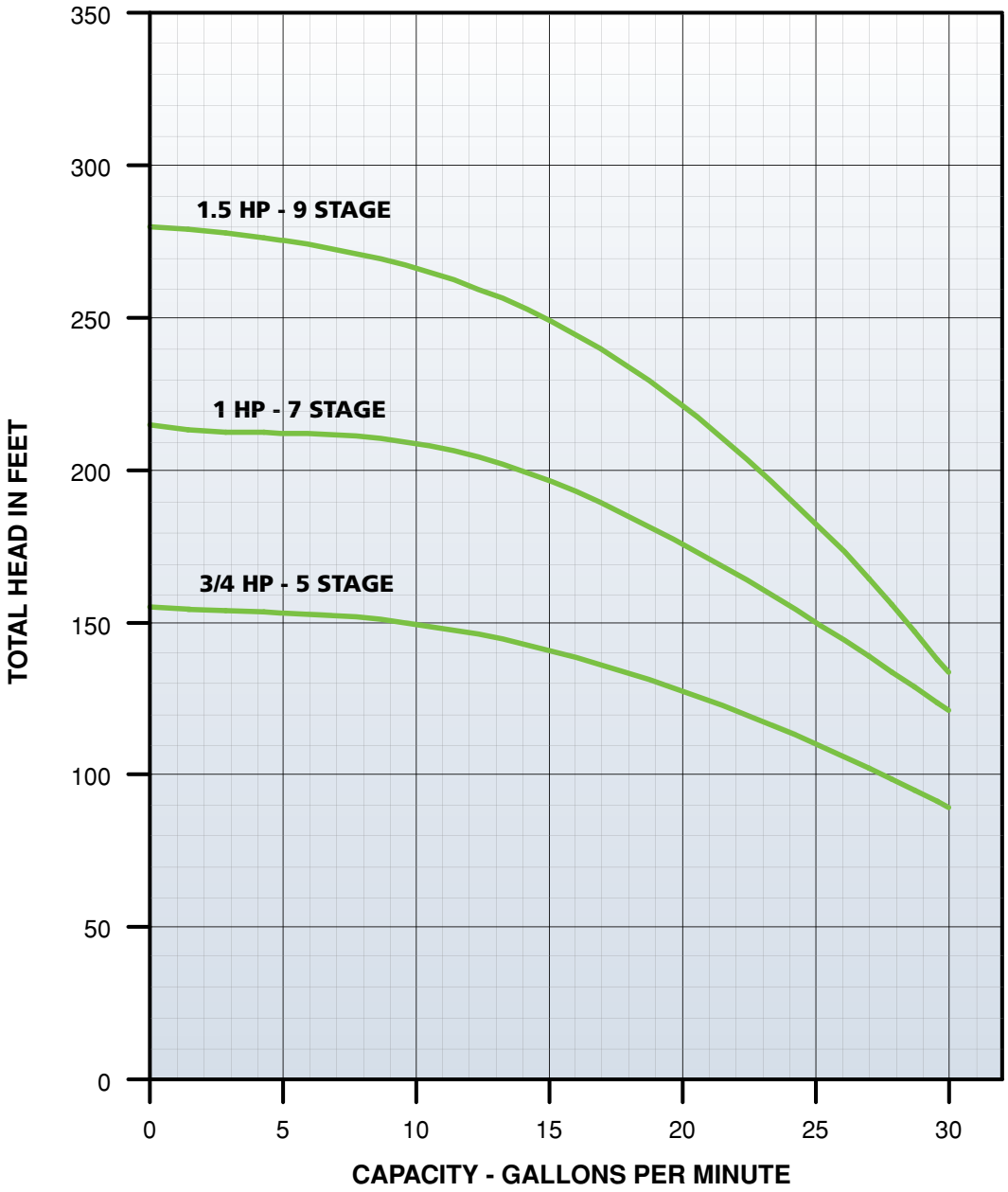
Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558613	W22G07S5-22P	3/4	5	230	2	153 (46.6 m)	27	–	–	–
558614	W22G07S5-32P	3/4	5	230	3	153 (46.6 m)	27	558823	558824	–
558573	W22G10S7-22P	1	7	230	2	212 (64.6 m)	30	–	–	–
558574	W22G10S7-32P	1	7	230	3	212 (64.6 m)	33	558833	558834	–
558538	W22G15S9-22P	1-1/2	9	230	2	280 (85.3 m)	40	–	–	–
558539	W22G15S9-32P	1-1/2	9	230	3	280 (85.3 m)	39	–	–	558542

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558615	W22G07S5-22S	3/4	5	230	2	153 (46.6 m)	27	–	–	–
558616	W22G07S5-32S	3/4	5	230	3	153 (46.6 m)	27	558823	558824	–
558597	W22G10S7-22S	1	7	230	2	212 (64.6 m)	30	–	–	–
558598	W22G10S7-32S	1	7	230	3	212 (64.6 m)	33	558833	558834	–
558548	W22G15S9-22S	1-1/2	9	230	2	280 (85.3 m)	40	–	–	–
558549	W22G15S9-32S	1-1/2	9	230	3	280 (85.3 m)	39	–	–	558842

22 GPM
Thermoplastic and Stainless Steel

Performance Curve



22 GPM
Thermoplastic and Stainless Steel

Capacities in U.S. Gallons per Minute – 22 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.	
				20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460	500	900	PSI	Feet
W22G07S5	3/4	5	0					27	22	15															66	153
			10				27	21	14																	
			20			26	20	12																		
			30		25	19	10																			
			40	25	18	7																				
			50	17																						
Shut Off PSI				58	49	40	32	23	14	6																

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	PSI	Feet
W22G10S7	1	7	0							27	23	19	14												92	212
			10						26	23	18	13														
			20					26	22	18	11															
			30				25	21	17	9																
			40			25	20	16																		
			50	27	24	20	16																			
			60	24	19	15																				
			70	19	13																					
			80	12																						
Shut Off PSI				83	75	66	57	49	40	31	23	14	5													

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.	
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	PSI	Feet
W22G1S9	1-1/2	9	0								27	25	23	15											121	280
			10							27	25	23	20	7												
			20						27	25	22	19	16													
			30					26	24	22	19	15	9													
			40				26	24	21	18	14	7														
			50			26	24	21	18	14																
			60	27	26	23	20	17	13																	
			70	25	23	20	17	12																		
			80	22	19	16	11																			
			90	19	15	9																				
			100	15	8																					
			110	6																						
Shut Off PSI				139	130	121	113	104	95	87	78	69	61	39	17											

5 - 22 GPM
Thermoplastic and Stainless Steel Pump Ends

Capacities in U.S. Gallons per Minute – 22 GPM

Thermoplastic Pump Ends						
Item #	Model	HP	Stages	GPM	Weight (lbs)	Height (in)
558400	W5G05S13-PEP	1/2	13	5	8	17.54
558401	W5G07S18-PEP	3/4	18	5	10	21.51
558402	W5G10S21-PEP	1	21	5	11	22.27
558403	W8G05S9-PEP	1/2	9	8	4	14.30
558404	W8G07S12-PEP	3/4	12	8	7	16.65
558405	W8G10S15-PEP	1	15	8	8	19.00
558406	W12G05S7-PEP	1/2	7	12	6	12.73
558407	W12G07S9-PEP	3/4	9	12	7	14.30
558408	W12G10S12-PEP	1	12	12	8	16.65
558409	W12G15S17-PEP	1-1/2	17	12	12	20.57
558410	W16G07S8-PEP	3/4	8	16	7	16.12
558411	W16G10S10-PEP	1	10	16	7	18.34
558412	W16G15S14-PEP	1-1/2	14	16	10	21.66
558413	W22G07S5-PEP	3/4	5	22	6	12.79
558414	W22G10S7-PEP	1	7	22	7	15.01
558415	W22G15S9-PEP	1-1/2	9	22	8	17.23

Stainless Steel Pump Ends						
Item #	Model	HP	Stages	GPM	Weight (lbs)	Height (in)
558450	W5G05S13-PES	1/2	13	5	9	17.95
558451	W5G07S18-PES	3/4	18	5	11	21.91
558452	W5G10S21-PES	1	21	5	12	24.29
558453	W8G05S9-PES	1/2	9	8	5	14.62
558454	W8G07S12-PES	3/4	12	8	8	16.97
558455	W8G10S15-PES	1	15	8	9	19.32
558456	W12G05S7-PES	1/2	7	12	7	13.05
558457	W12G07S9-PES	3/4	9	12	8	14.62
558458	W12G10S12-PES	1	12	12	9	16.97
558459	W12G15S17-PES	1-1/2	17	12	13	20.89
558460	W16G07S8-PES	3/4	8	16	8	16.44
558461	W16G10S10-PES	1	10	16	8	18.66
558462	W16G15S14-PES	1-1/2	14	16	11	21.98
558466	W16G2S18-PES	2	18	16	13	27.53
558467	W16G3S24-PES	3	24	16	16	30.76
558463	W22G07S5-PES	3/4	5	22	7	13.11
558464	W22G10S7-PES	1	7	22	8	15.33
558465	W22G15S9-PES	1-1/2	9	22	9	17.55
558468	W22G2S11-PES	2	11	22	10	19.77
558469	W22G3S15-PES	3	15	22	12	24.20
558470	W22G5S25-PES	5	25	22	19	37.38

Maximum diameter with cable guard is 3.90".

Submersible Motor Control Boxes
QD, Standard & Deluxe

Applications

- Quick Disconnect (QD) & Capacitor Run Control (CRC) - These control boxes are designed for use with Franklin 3-wire single-phase submersible motors through 1 hp.

Features

- Suitable for outdoor mounting
- Capacitor Start/Capacitor Run design (except QD boxes)
- External access to overload resets
- Multiple-size knockouts
- User-friendly connection diagrams
- Easy access to grounding lugs

Model Characteristics

Item #	Model	HP	Volts	Wire	Weight (lbs)
2801044915	CB-1/2-115-60-Q	1/2	115	3	3
2801054915	CB-1/2-230-60-Q	1/2	230	3	3
2801074915	CB-3/4-230-60-Q	3/4	230	3	3
2801084915	CB-1-230-60-Q	1	230	3	3
2824055015	CB-1/2-230-60-CRC	1/2	230	3	5
2824075015	CB-3/4-230-60-CRC	3/4	230	3	5
2824085015	CB-1-230-60-CRC	1	230	3	5
2823008110	CB-1.5-230-60-S	1-1/2	230	3	7
28923018110	CB-2-230-60-S	2	230	3	7
2823018310	CB-2-230-60-D	2	230	3	7

Loss of head in feet, due to friction per 100 feet of pipe. (Based on C=100 for Steel, C=130 for Copper and C=140 for Plastic.)

Nom: Pipe Size	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"			2-1/2"			3"	4"	5"	6"	8"	Nom: Pipe Size
Material	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel					Material
I.D.	.622	.625	.622	.824	.822	.824	1.049	1.062	1.049	1.380	1.368	1.380	1.610	1.600	1.610	2.067	2.062	2.067	2.469	2.500	2.469	3.068	4.026	5.047	6.065	8.071	I.D.
U.S. GPM																											U.S. GPM
0.5	.58	.35	.31																								0.5
1.0	2.1	1.26	1.14																								1.0
1.5	4.44	2.67	2.38	1.13	.70	.61																					1.5
2.0	7.57	4.56	4.10	1.93	1.21	1.04	.60	.35	.32																		2.0
2.5	**11.4**	6.88	6.15	2.91	1.82	1.57	.92	.55	.48																		2.5
3.0	16.0	**9.66**	8.65	4.08	2.56	2.21	1.26	.73	.68																		3.0
3.5	21.3	12.9	**11.5**	5.42	3.4	2.93	1.70	1.00	.90																		3.5
4.0	27.3	16.4	14.8	6.94	4.36	3.74	2.14	1.24	1.15	.56	.36	.30	.27	.17	.14												4.0
4.5	33.9	20.4	18.3	8.63	5.4	4.66	2.68	1.58	1.45	.69	.42	.39	.34	.21	.18												4.5
5.0	41.2	24.8	22.3	**10.5**	6.57	5.66	3.42	1.88	1.75	.85	.55	.46	.41	.25	.22												5.0
5.5	49.2	29.6	26.6	12.4	7.79	6.75	3.90	2.30	2.10	1.00	.62	.53	.49	.30	.26												5.5
6.0	57.8	34.8	31.2	14.7	9.22	7.95	4.54	2.63	2.45	1.20	.77	.65	.57	.36	.31												6.0
6.5	67.0	40.2	36.2	17.0	**10.7**	9.25	5.30	3.12	2.84	1.38	.88	.72	.66	.42	.36												6.5
7.0	76.8	46.1	41.5	19.6	12.2	**10.6**	6.08	3.58	3.25	1.59	1.02	.86	.76	.48	.41												7.0
7.5	87.3	52.5	47.2	22.3	13.9	12.0	6.92	4.03	3.68	1.82	1.16	.98	.86	.54	.46												7.5
8.0	98.3	59.4	53.0	25.0	15.7	13.5	7.73	4.50	4.16	2.04	1.31	1.10	.96	.61	.52												8.0
8.5	110	66.0	59.5	27.9	17.6	15.1	8.76	5.08	4.62	2.30	1.47	1.21	1.07	.68	.58												8.5
9.0	122	73.5	66.0	31.1	19.5	16.8	9.72	5.60	5.17	2.55	1.62	1.35	1.19	.75	.65												9.0
9.5	135	81.0	73.0	34.5	21.6	18.6	10.7	6.18	5.72	2.82	1.79	1.50	1.32	.83	.72												9.5
10	149	89.4	80.5	37.8	23.7	20.4	11.7	6.77	6.31	3.08	1.98	1.67	1.45	.92	.79	.43	.27	.23									10
11				45.1	28.2	24.4	14.1	8.08	7.58	3.70	2.32	1.98	1.74	1.10	.95	.51	.32	.27									11
12				53.0	33.2	28.6	16.4	9.47	8.85	4.31	2.75	2.33	2.04	1.29	1.10	.60	.37	.32									12
13				61.5	38.5	33.2	18.9	**11.0**	10.3	5.01	3.18	2.71	2.37	1.49	1.28	.70	.43	.37									13
14				70.5	44.2	38.0	21.8	12.6	**11.8**	5.73	3.64	3.10	2.71	1.71	1.46	.80	.49	.43									14
16				90.2	56.6	48.6	27.9	16.2	15.1	7.34	4.68	3.96	3.47	2.20	1.87	1.03	.63	.55									16
18				112	70.4	60.5	24.7	20.1	18.7	9.13	5.81	4.93	4.31	2.75	2.33	1.28	.78	.69									18
20				136	83.5	73.5	42.1	24.4	22.8	**11.1**	7.10	6.00	5.24	3.31	2.83	1.55	.96	.84	.65	.38	.35	.25	.06				20
25							63.9	36.9	34.6	16.8	**10.7**	**9.06**	7.90	5.00	4.26	2.35	1.45	1.27	.99	.57	.50	.38	.09				25
30							89.2	51.5	48.1	23.5	15.0	12.7	**11.1**	7.0	6.0	3.29	2.03	1.78	1.39	.79	.75	.54	.13	.04			30
35							119	68.7	64.3	31.2	20.0	16.9	14.7	9.35	7.94	4.37	2.71	2.36	1.82	1.05	.98	.71	.17	.06			35
40							152	88.0	82.0	40.0	25.6	21.6	18.9	**12.0**	10.2	5.60	3.47	3.03	2.36	1.35	1.27	.91	.22	.08			40
45							189	109	102	49.4	31.9	27.0	23.4	14.9	**12.6**	6.96	4.31	3.76	2.92	1.69	1.58	1.15	.28	.09			45
50										60.4	38.7	32.6	28.5	18.1	15.4	8.46	5.24	4.57	3.56	2.04	1.92	1.38	.34	.11	.04		50
55										71.9	46.5	39.1	34.0	21.5	18.4	10.1	6.22	5.46	4.25	2.42	2.30	1.58	.41	.14	.05		55
60										84.7	54.1	45.6	40.0	25.3	21.6	**11.9**	7.34	6.44	5.0	2.90	2.70	1.92	.47	.16	.06		60
65										99.1	63.0	53.4	46.4	29.0	25.1	13.8	8.5	7.42	5.8	3.31	3.13	2.16	.53	.21	.07		65
70										114	72.2	61.5	53.2	33.8	28.7	15.8	9.78	8.53	6.64	3.82	3.58	2.57	.63	.24	.08		70
75										129	82.1	69.4	60.4	38.0	32.6	17.9	**11.1**	9.68	7.58	4.32	4.05	3.00	.73	.27	.10		75
80										144	92.4	77.9	68.1	43.1	36.8	20.2	121.5	**10.9**	8.50	4.88	4.59	3.28	.81	.31	.11		80
85										161	104	87.0	76.2	47.6	41.2	22.5	14.0	12.2	9.54	5.44	5.11	3.54	.91	.34	.12		85
90										179	115	96.6	84.7	53.6	45.7	25.1	15.6	13.6	10.6	6.06	5.72	4.08	1.00	.38	.14		90
95													93.6	58.8	50.5	27.8	17.2	15.0	**11.69**	6.70	6.28	4.33	1.12	.41	.15		95
100													103	65.1	56.6	30.5	18.9	16.56	12.8	7.37	6.90	4.96	1.22	.49	.17		100
110																36.4	22.5	19.7	15.3	8.80	8.25	6.0	1.46	.58	.21		110
120																42.7	26.6	23.1	18.0	10.3	9.71	7.0	1.17	.67	.24		120
130																49.6	30.7	26.8	20.9	**12.0**	**11.3**	8.1	1.97	.76	.27		130
140																56.9	35.2	30.6	23.9	13.7	12.9	9.2	2.28	.88	.32	.08	140
150																64.7	40.1	35.0	27.3	15.6	14.7	10.5	2.62	.98	.36	.09	150
160																72.8	45.1	39.3	30.7	17.6	16.6	**11.8**	2.91	1.08	.40	.10	160
170																81.4	50.5	44.0	34.3	19.7	18.5	13.3	3.26	1.22	.45	.11	170
180																90.5	56.1	48.9	38.1	21.9	20.6	14.0	3.61	1.35	.50	.13	180
190																100	62.0	54.0	42.1	24.2	22.7	15.5	4.01	1.48	.55	.14	190
200																110	68.0	59.4	26.3	26.6	25.0	17.8	4.40	1.77	.62	.15	200
220																			55.3	31.8	29.8	21.3	5.20	2.08	.73	.18	220
240																			66.4	37.4	35.8	25.1	6.20	2.41	.87	.22	240
260																			75.3	43.3	41.6	29.1	7.2	2.77	1.00	.25	260
280																			86.3	49.4	46.6	33.4	8.2	3.14	1.14	.28	280
300																			98.1	56.8	52.9	38.0	9.3	3.54	1.32	.32	300
320																						42.8	10.5	3.97	1.47	.37	320
340																						47.9	11.7	4.41	1.62	.41	340
360																						53.0	13.1	4.86	1.83	.45	360
380																						59.0	14.0	5.4	2.00	.50	380
400																						65.0	16.0	6.7	2.20	.54	400
450																						78.0	19.8	8.1	2.74	.68	450
500																						98.0	24.0	9.6	2.90	.82	500
550																						117	28.7	**11.3**	3.96	.97	550
600																						137	33.7	13.2	4.65	1.14	600
650																							39.0	15.1	5.4	1.34	650
700																							44.9	17.2	6.21	1.54	700
750																							51.0	19.4	7.12	1.74	750
800																							57.0	21.7	7.96	1.90	800
850																							64.0	24.0	8.95	2.20	850
900																							71.0	26.7	10.1	2.46	900
950																								29.2	11.2	2.87	950
1000																								34.9	**12.0**	2.97	1000
1100																								40.9	14.6	3.52	1100
1200																									17.1	4.17	1200
1300																									18.4	4.85	1300
1400																									22.6	5.50	1400
1500																									25.6	6.24	1500
1600																									26.9	7.0	1600
1800																										8.78	1800
2000																										**10.71**	2000
2200																										12.78	2200
2400																										14.2	2400

Note: **Bold items** are recommended for normal operation.

Glossary

Air volume control – Designed to maintain the air charge in a standard water storage tank. Pre-charged tanks do not require an air volume control.

Atmospheric pressure – A force exerted upon the earth's surface by the weight of air extending to a height of 25 miles above the earth. At sea level, 14.7 pounds per square inch (psi).

Centrifugal force – The force created by a spinning or rotating impeller resulting in the movement of water outward from the center point. A pump uses an impeller to create centrifugal force.

Check valve – Allows water to move in only one direction which prevents water from returning to its source.

Convertible jet pump – For deep wells where pumping water levels are as far as 90 feet below the pump. Also easily converted for shallow wells where pumping water levels are no more than 25 feet below the pump. Jet packages must be purchased separately.

Cut-in pressure setting – The point at which the pressure switch turns the pump on.

Deep well – Well with a depth to water greater than 25 feet.

Depth to water – The vertical measurement from pump level down to water level of water source. Pump height above water.

Discharge pressure – The amount of force, or pressure of the water being discharged from the pump.

Dual voltage motor – Pump motor that can be operated on 115 or 230 Volts.

Foot valve – Installs on the end of pump suction pipe to prevent water from draining back to source. Includes strainer to minimize suction of debris into pump.

GPH – Gallons per hour.

GPM – Gallons per minute.

HP – Horsepower (power of motor).

Jet pump – A centrifugal pump which requires a jet to help build additional water pressure.

Multi-stage jet pump – For use on deep wells only, with pumping water levels as far as 210 feet below the pump.

PSI – Pounds per square inch. A volumetric pressure measure.

Pre-charged tank – A water storage tank pre-charged with air at the factory featuring a rubber diaphragm to separate water from air which prevents waterlogging. This tank design provides greater drawdown than standard tanks. Pre-charged tanks do not require an air volume control.

Pressure – A force usually expressed in pounds per square inch.

Pressure switch – The switch that automatically turns the pump on and off at specified pressures 30/50 psi and 40/60 psi. IMPORTANT: Always replace an old switch with a new switch that has the same pressure settings.

- **30/50 pressure operation** – Pressure switch turns pump on at 30 psi and off at 50 psi.
- **40/60 pressure operation** – Pressure switch turns pump on at 40 psi and off at 60 psi.

Priming the pump – The initial filling of a jet or centrifugal pump with water so that the air can be removed.

Pump capacity – The amount of water a pump is capable of moving at a given pressure.

Safety relief valve – Required for all submersible pump and pressure boosting installations to prevent over-pressurization of water storage tank and system piping that could develop from pressure switch malfunction.

Shallow well – Well with a depth of water of 25 feet or less.

Shallow well pump – For use on wells where pumping water levels are no more than 25 feet below the pump. Features a built-in jet.

Sizing – Properly matching product to application for best performance.

Standard tank – A pressurized water storage tank where air comes in contact with water. Requires air volume control for proper operation.

Submersible pump control box – Installs above ground. Contains electrical starting components for three-wire submersible deep well pumps. Two-wire submersible deep well pumps do not use a control box.

Submersible deep well pump – For use on wells where pump water levels are up to 400 feet below point of use. Pump is submerged under water in the well.

Tank drawdown – The amount of usable water available from a water storage tank between pump stops and starts.

Waterlogging – The absorption of air into water stored in a water storage tank which greatly reduces the amount of usable water drawdown available from the tank.

Water storage tank – Stores air and water under pressure to provide for automatic pump operation and a source of water when pump is not running.

Notes

About Our Company.

In 2006, Franklin Electric acquired Little Giant Pump Company to solidify our position as a leading global supplier of water pumping systems for residential and commercial markets.

Little Giant® products – sump, sewage, effluent, utility, condensate removal, and submersible industrial pumps – complement and broaden Franklin Electric's overall water systems offering.

Little Giant Pump Company, now Franklin Electric, offers the industry a well-respected brand of products – Little Giant. Founded on quality, availability, service, innovation, and value, Franklin Electric continues to bring the Little Giant brand name advantage.

Franklin Electric Company is a global leader in the production and marketing of systems and components for the movement of water and automotive fuels. Recognized as a technical leader in its specialties, Franklin serves customers around the world in residential, commercial, agricultural, industrial, municipal, and fueling applications.

Long recognized as the world's largest manufacturer of submersible electric motors, Franklin Electric has been able to leverage its expertise in motor applications to grow and serve several different markets. The principal application for Franklin products is water well pumping systems, where the company offers pumps, motors, drives, and controls. In addition, Franklin Electric produces a vast array of products for fueling systems and the water transfer market.

With 3,500 employees worldwide, Franklin Electric is a global manufacturer with over 25 manufacturing and distribution facilities located in the United States, Germany, Czech Republic, Italy, Mexico, Canada, Australia, Brazil, South Africa, China, and Japan.

Franklin Electric
P.O. Box 12010
Oklahoma City, OK 73157-2010
PH: 1-800-701-7894
FX: 1-800-678-7867
www.LittleGiantPump.com

Franklin Electric

Form 995468 06/12