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INLINE CONTROLS

Franklin Electric's new Inline Controls include five pump starting and control devices that pair with a variety of submersible or surface pump up to 20 amps (or approximately 3 hp) to provide or boost the system's overall water pressure – and in many cases, without the need of an additional bladder tank. Depending on application requirements and selected model, the product family offers various forms of system protection, including dry run, dead head pumping, over amperage, locked system, and over pressurization. They also offer two unique features that ensure the system remains functional and hassle free, including: a daily motor rotation start designed to energize the motor at least once every 24 hours to prevent system locking, and a unique automatic restart feature eliminating the need to manually restart the pump in the case of an unexpected trip or fault.

FEATURES BY MODEL



FLW



SWC



SWP



ADJ



CTL



Model Description	Flow Based Pump Activation	Run Dry Protection	Low-Pressure Backup Activation	Replaces Pressure Switch and Tank	Suction Lift	Includes Pressure Gauge	Adjustable Low-Pressure Backup Activation	Max. Pressure Regulation
Inline FLW	✓	✓		✓				
InlineSWC	✓	✓	✓	✓	✓			
InlineSWP	✓	✓	✓	✓	✓			
InlineADJ 115 V	✓	✓	✓	✓	✓	✓	✓	
InlineADJ 230 V	✓	✓	✓	✓	✓	✓	✓	
InlineCTL	✓	✓	✓	✓	✓	✓		✓

NOTE: Proper pump selection is essential for use with the Inline FLW, SWC, SWP, and ADJ as pump shut-off pressure will be realized within the system prior to shut down. If the pump size can not be reduced, select the Inline CTL with built-in pressure reducing valve.

TECHNICAL SPECIFICATIONS

Model Description	Motor Size		Voltage	Max. Current	Max. Temp.	Min. Flow (GPM)	Thread Size
InlineFLW	up to 1.5 hp	up to 1.1 kW	115/230	15 A	150 °F	0.15	1" MNPT
InlineSWC	up to 2 hp	up to 1.5 kW	115/230	16 A	150 °F	0.25	1" MNPT
InlineSWP	up to 3 hp	up to 2.2 kW	115/230	20 A	150 °F	0.25	1 1/4" MNPT
InlineADJ 115 V	up to 0.75 hp	up to 0.55 kW	115	16 A	150 °F	0.25	1" MNPT
InlineADJ 230 V	up to 2 hp	up to 1.5 kW	230	16 A	150 °F	0.25	1" MNPT
InlineCTL	up to 3 hp	up to 2.2 kW	115/230	20 A	150 °F	0.25	1 1/4" MNPT



INLINE CONTROLS - SWC & SWP

Use with a pressurized water supply or suction lift installation for municipal and well supply sources. The Inline Control SWC and SWP are flow activated smart pump start controls, designed for use in conjunction with a pump where starting and stopping the system based on water usage is desired.

FEATURES

- With flow of 0.25 gpm or greater the pump is activated to ensure continuous operation during water demand cycles
- When flow is less than 0.25 gpm, the pump starts at a minimum pressure of 22 psi
- If the pump starts due to low system pressure, with no additional demand, the Inline SWC and SWP will only run the system to rebuild pressure
- Can be wired for 115V or 230V with no internal settings or wiring changes required
- Includes a convenient built-in check valve
- Protects pump from conditions of dry run, overcurrent, and pumping against a closed discharge (dead-head) by powering off the system when water flow stops
- If the pump remains idle for 24 consecutive hours, the device will carry out an autorun feature to keep the system free of debris and clogs
- The system will auto-rest up to 10 times in a 24 hour period if no water is detected, to protect the pump
- Replaces the need for an external pressure tank and differential pressure switch



SWC



SWP

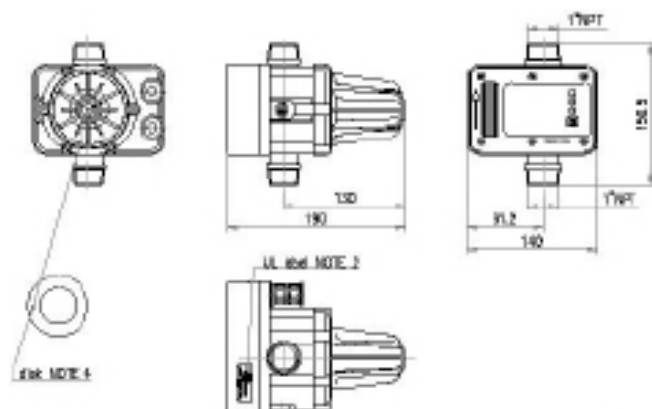
Model Description	Flow Based Pump Activation	Run Dry Protection	Low Pressure Backup Activation	Replaces Pressure Switch and Tank	Suction Lift	Includes Pressure Gauge	Adjustable Low-Pressure Backup Activation	Max. Pressure Regulation
InlineSWC	✓	✓	✓	✓	✓			
InlineSWP	✓	✓	✓	✓	✓			

NOTE: Proper pump selection is essential for use with the Inline SWC and SWP as pump shut-off pressure will be realized within the system prior to stopping the pump. If the pump size cannot be reduced to a lower output performance within the systems pressure limits, select the Inline CTL with built-in pressure reducing valve.

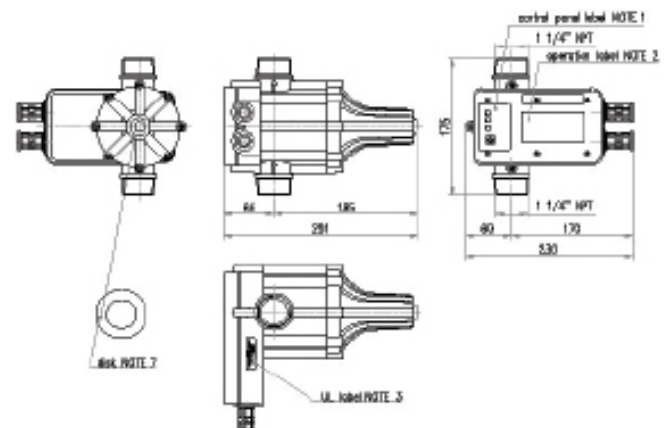
ORDERING INFORMATION

Model Description	Order No.	Model No.	Motor Size		Voltage	Max. Current	Max. Temp.	Thread Size
InlineSWC	91987103	FIL-SWC16	0.75-2 hp	(0.55-1.5 kW)	115/230	16 A	150 °F	1" MNPT
InlineSWP	91987104	FIL-SWP20	1-3 hp	(0.75-2.2 kW)	115/230	20 A	150 °F	1 1/4" MNPT

FIL-SWC16



FIL-SWC20



INLINE CONTROLS - ADJ

Use with a pressurized water supply or suction lift installation for municipal and well supply sources. The Inline Control ADJ is a smart flow activated pump start control, designed for use in conjunction with a pump where starting and stopping the system based on water usage is desired. With water flow being the primary system start command, the unit provides a backup low pressure cut-in point where the pump will start to repressurize the system. The InlineADJ allows this low pressure cut to be adjusted to 22, 29, or 36 PSI to ensure the system will still reach the desired shut-off pressure.

FEATURES

- With flow of 0.25 gpm or greater the pump is activated to ensure continuous operation during water demand cycles
- When flow is less than 025 gpm, the user may select between three adjustable cut-in points for a minimum system pressure of 22, 29, or 36 psi
- If the pump starts due to low system pressure, with no additional demand, the Inline ADJ will only run the system to rebuild pressure
- Separate models for 115V or 230V with no internal settings or wiring changes required
- Includes a convenient built-in check valve
- Protects pump from conditions of dry run, overcurrent, and pumping against a closed discharge (dead-head) by powering off the system when water flow stops
- If the pump remains idle for 24 consecutive hours, the device will carry out an autorun feature to keep the system free of debris and clogs.
- The system will auto-rest up to 10 times in a 24 hour period if no water is detected, to protect the pump
- Replaces the need for an external pressure tank and differential pressure switch



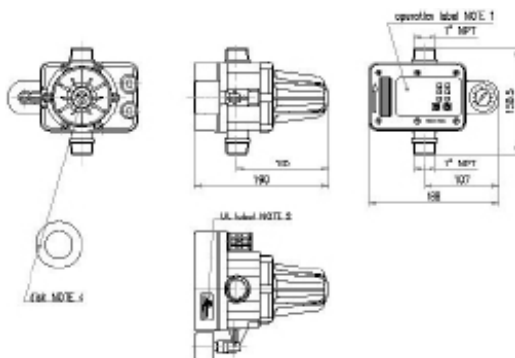
Model Description	Flow Based Pump Activation	Run Dry Protection	Low-Pressure Backup Activation	Replaces Pressure Switch and Tank	Suction Lift	Includes Pressure Gauge	Adjustable Low-Pressure Backup Activation	Max. Pressure Regulation
InlineADJ 115 V	✓	✓	✓	✓	✓	✓	✓	
InlineADJ 230 V	✓	✓	✓	✓	✓	✓	✓	

NOTE: Proper pump selection is essential for use with the Inline ADJ as pump shut-off pressure will be realized within the system prior to shut down. If the pump size cannot be reduced to a lower output performance within the systems pressure limits, select the Inline CTL with built-in pressure reducing valve.

ORDERING INFORMATION

Model Description	Order No.	Model No.	Motor Size		Voltage	Max. Current	Max. Temp.	Thread Size
InlineADJ 115 V	91987105	FIL-ADJ16-1G	0.75 hp	(0.55 kW)	115	16 A	150 °F	1" MNPT
InlineADJ 230 V	91987106	FIL-ADJ16-2G	2hp	(1.5 kW)	230	16 A	150 °F	1" MNPT

FIL-ADJ16-1G and FIL-ADJ16-2G





INLINE CONTROLS - CTL

Use with a pressurized water supply or suction lift installation for municipal and well supply sources. The Inline Control CTL is a smart flow activated pump start control, designed for use in conjunction with a pump where starting and stopping the system based on water usage is desired. By turning the dial on the back of the unit the maximum system pressure may be regulated within the pump's output range to match the application's need.

FEATURES

- With flow of 0.25 gpm or greater the pump is activated to ensure continuous operation during water demand cycles
- Built-in pressure reducing valve to allow for customization of maximum output pressure
- Can be wired for 115V or 230V with no internal settings or wiring changes required
- If the pump starts due to low system pressure, with no additional demand, the Inline SWC and SWP will only run the system to rebuild pressure
- Protects pump from conditions of dry run, over pressure, and pumping against a closed discharge (dead-head) by powering off the system when water flow stops
- If the pump remains idle for 24 consecutive hours, the device will carry out an autorun feature to keep the system free of debris and clogs
- Replaces the need for an external pressure tank and differential pressure switch
- Includes a convenient built-in check valve
- Adjust knob to set the pump's maximum output pressure at a desired regulation point to prevent system over-pressurization

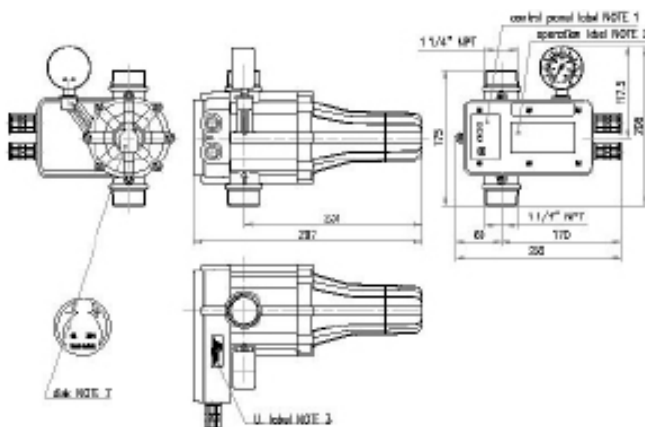


Model Description	Flow Based Pump Activation	Run Dry Protection	Low-Pressure Backup Activation	Replaces Pressure Switch and Tank	Suction Lift	Includes Pressure Gauge	Adjustable Low-Pressure Backup Activation	Max. Pressure Regulation
InlineCTL	✓	✓	✓	✓	✓	✓		✓

ORDERING INFORMATION

Model Description	Order No.	Model No.	Motor Size		Voltage	Max. Current	Max. Temp.	Thread Size
InlineCTL	91987107	FIL-CTL20	1-3 hp	(0.75-2.2 kW)	115/230	20 A	150 °F	1 1/4" MNPT

FIL-CTL20





INLINE PRESSURE BOOSTING - INLINE 400

FEATURES

- Utilizes proven Franklin Electric pump and motor to create the most trustworthy product on the market
- Simple flow-based controls mean you get the pressure every time you need it
- Protective cap comes standard for outdoor use (for vertical applications only)
- Whisper-quiet operation
- Installs vertically or horizontally
- 1 - 1/4" NPT inlet and outlet
- 115 V and 230 V models available
- Plug-in electrical cord connected unit
- Protective features: Over/Under voltage protection, dry run, and over temperature
- Product power rating: 1/3 hp, 0.246 kW
- Maximum Water Temperature: 120 °F/49 °C

APPLICATIONS

- City water pressure boosting
- Pressurize water from cistern tank
- Re-pressurizing after filtration
- Irrigation system boosting

ORDERING INFORMATION

Model Description	Order No.	HP	Input Voltage
Inline 400 115 V	92061501	1/3	115 V
Inline 400 115 V w/ tank 115 V	92061531	1/3	115 V
Inline 400 230 V	92061502	1/3	230 V
Inline 400 230 V w/ tank 230 V	92061532	1/3	230 V

REPLACEMENT PARTS & KITS

Model Description	Order No.
Tank Wrench	305572001
Inlet Pressure Switch	305572007
Outlet Pressure Switch	305572008
Replacement Tank	305572009
Replacement Cover	305572010
Replacement Base	305572011
Motor Capacitor - 115 V	305572012
Motor Capacitor - 230 V	305572013
Power Cord - 115 V	305572014
Power Cord - 230 V	305572015
Flow Piston Kit	305572016
Tank O-ring	305572017
Outdoor Protective Cap Kit	305572018
Expansion Tank, 2 Liter, 1" MNPT Connection	305572026



WATER QUALITY
MECHANICAL DEVICE
NSF/ANSI 61 & 372
COLD WATER 6R21

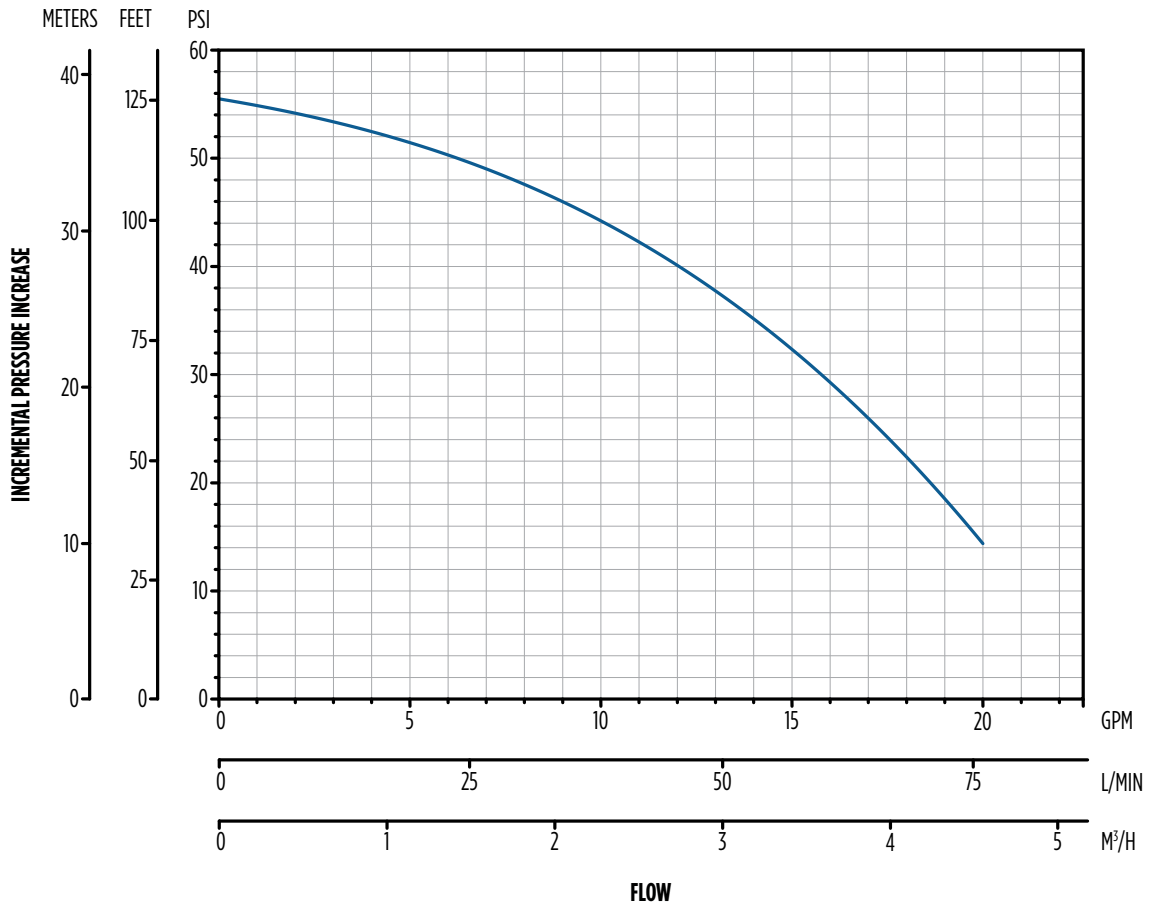


Protective Cap



INLINE PRESSURE BOOSTING - INLINE 400

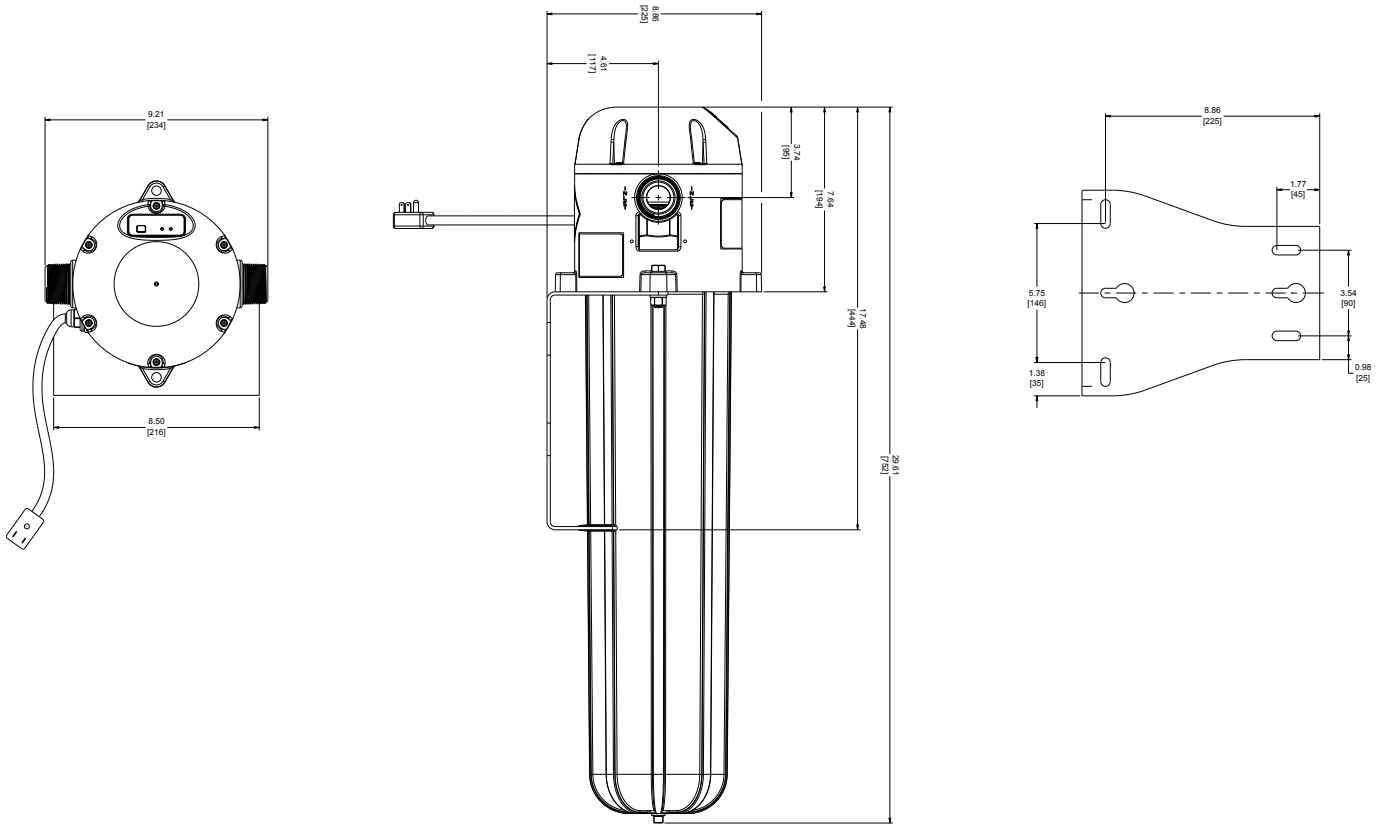
PERFORMANCE



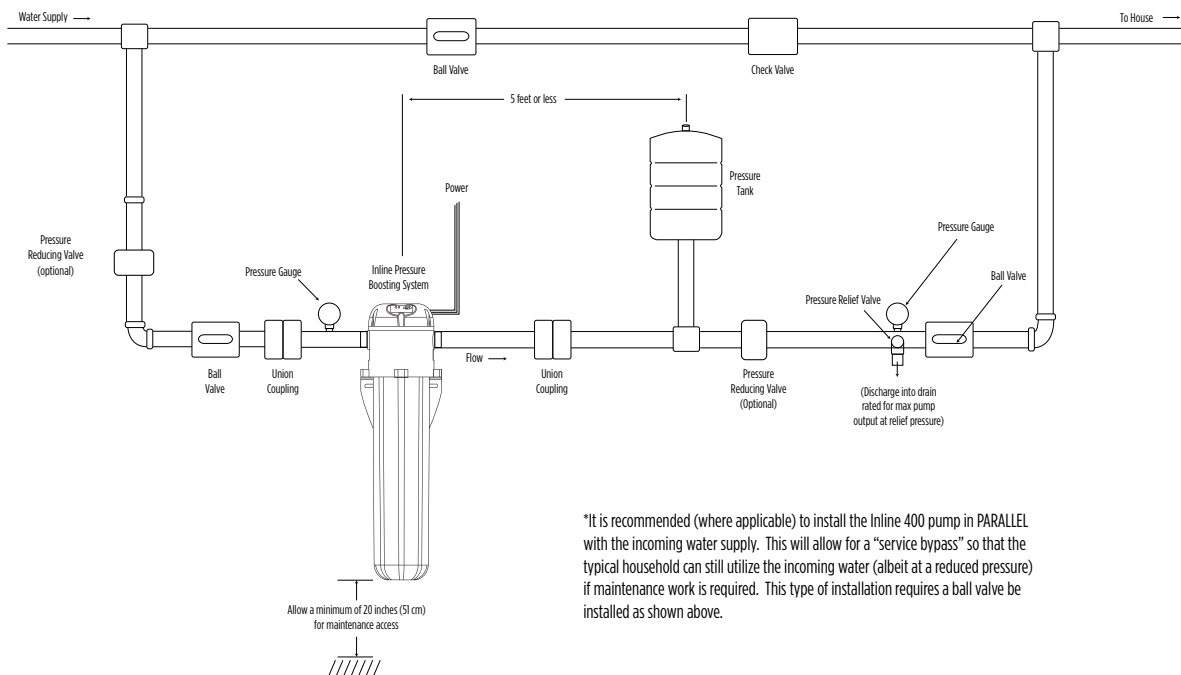


INLINE PRESSURE BOOSTING - INLINE 400

DIMENSIONS



TYPICAL INSTALLATION



"It is recommended (where applicable) to install the Inline 400 pump in PARALLEL with the incoming water supply. This will allow for a "service bypass" so that the typical household can still utilize the incoming water (albeit at a reduced pressure) if maintenance work is required. This type of installation requires a ball valve be installed as shown above.



INLINE CONSTANT PRESSURE - INLINE 1100

The Inline 1100 provides constant pressure for both private wells and municipal/city water systems.

FEATURES

- Pump, motor, drive, and pressure switch in one box as a packaged system
- Small and compact design fits into small areas, even between floor joists
- Stainless steel construction for years of operation
- Simple and easy installation with step-by-step illustrated instructions
- Integrated motor design allows water to flow around it for quiet and cool operation
- NEMA 4 (IP56) electronics enclosure
- Multiple mounting configurations allow for the unit to be installed where you need it, whether horizontal, vertical, or even upside down
- Built-in system protections guard against many common failure modes including surge protection, voltage underload, locked pump, open circuit, short circuit, and overheated controller
- Product power rating: 1.2 hp, 0.9 kW
- Shipping weight: 50 lbs, 22.7 kg



APPLICATIONS

- Boosted and constant water pressure from water storage/cistern systems
- Homes (both private and municipal applications)
- General pressure boosting
- Sprinkler systems
- Farming and commercial wash down systems

ORDERING INFORMATION

Model Description	Order No.	Input Voltage	Input Phase
25SDIL1100N4* (Complete pump w/NPT)	90401101	230	Single
25SDIL1100N4-B* (Complete pump w/BSP)	90401102		
Electronic Drive Assembly	305707901		
Pump & Motor Assembly w/NPT	305707902		
Pump & Motor Assembly w/BSP	305707911		
Mounting Feet	305707903	N/A	N/A
Pressure Switch	305707906		
Pressure Tank (2 gallon)	305707910		
Fastener Kit	305707904		
Pressure Switch Cable	305707905		
Overpressure Switch**	305707909		
Overpressure Switch Cable**	305707908		
Overpressure Switch & Cable Combo**	305707912		
Thermostat Kit	305707917		

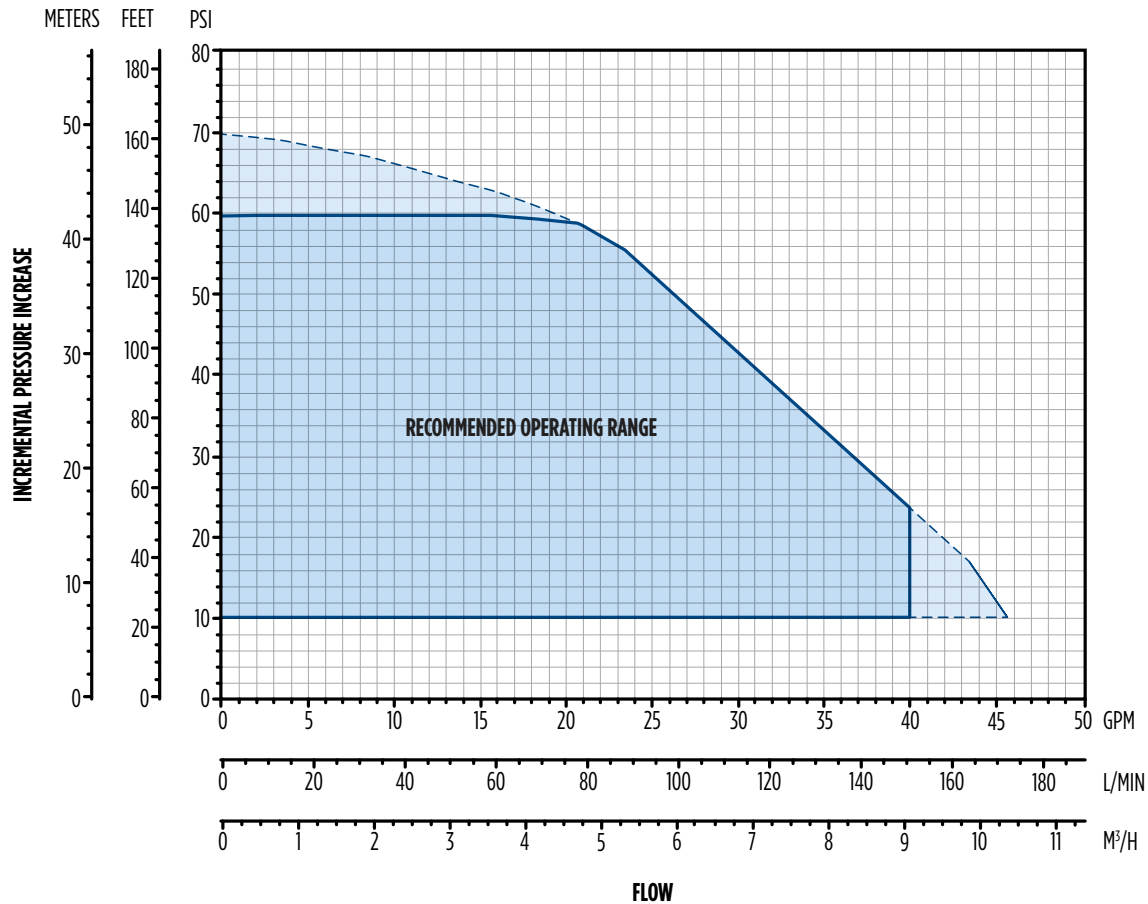
* Includes pump, motor, drive, pressure switch, and all cables.

** Overpressure switch is sold as an accessory and is not required for normal operation.



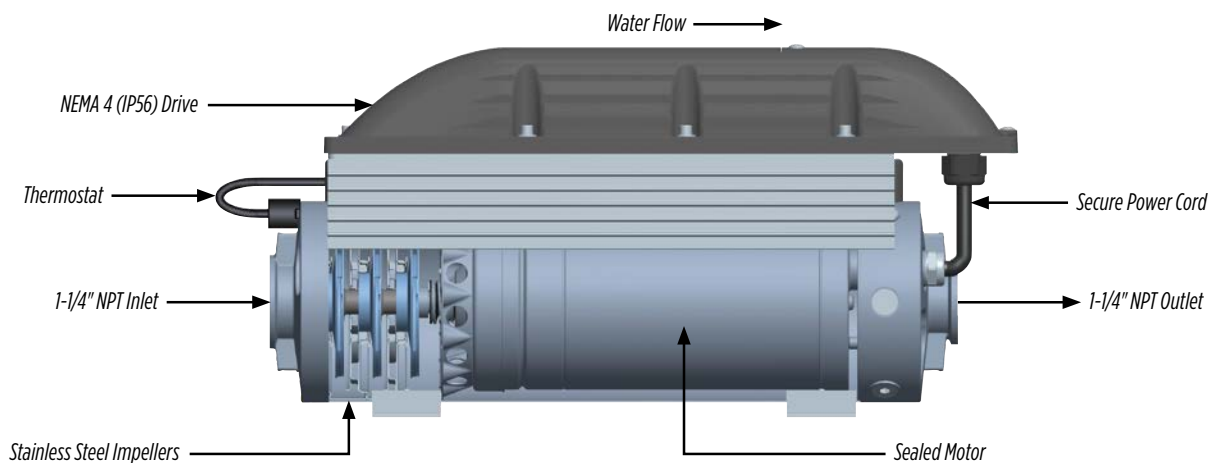
INLINE CONSTANT PRESSURE - INLINE 1100

PERFORMANCE



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

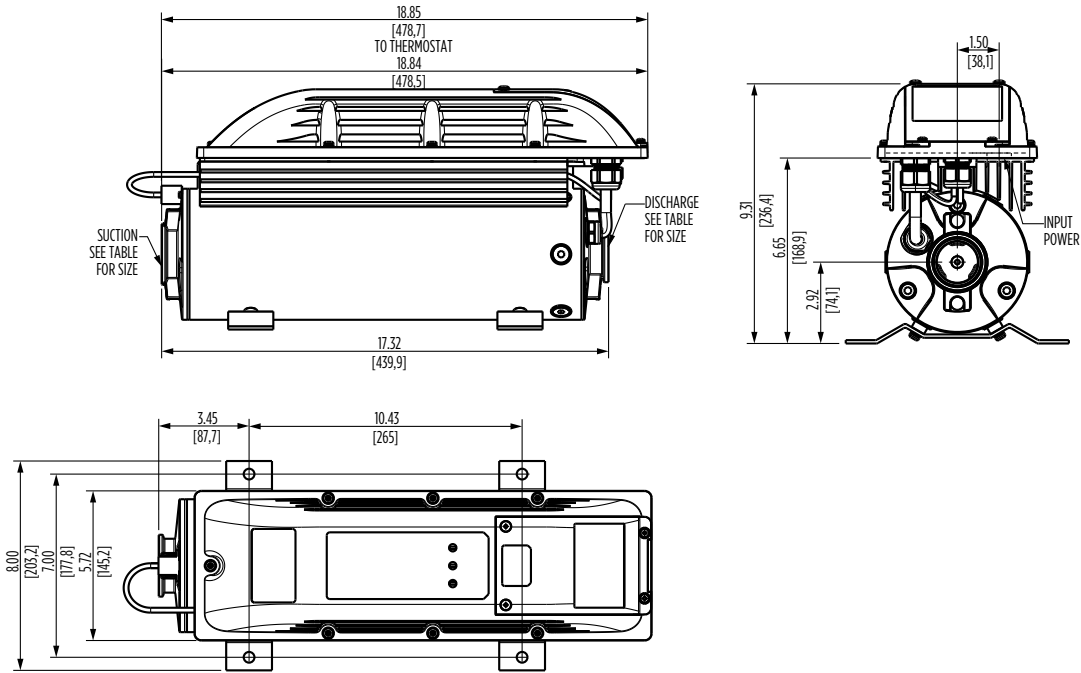
SYSTEM COMPONENTS



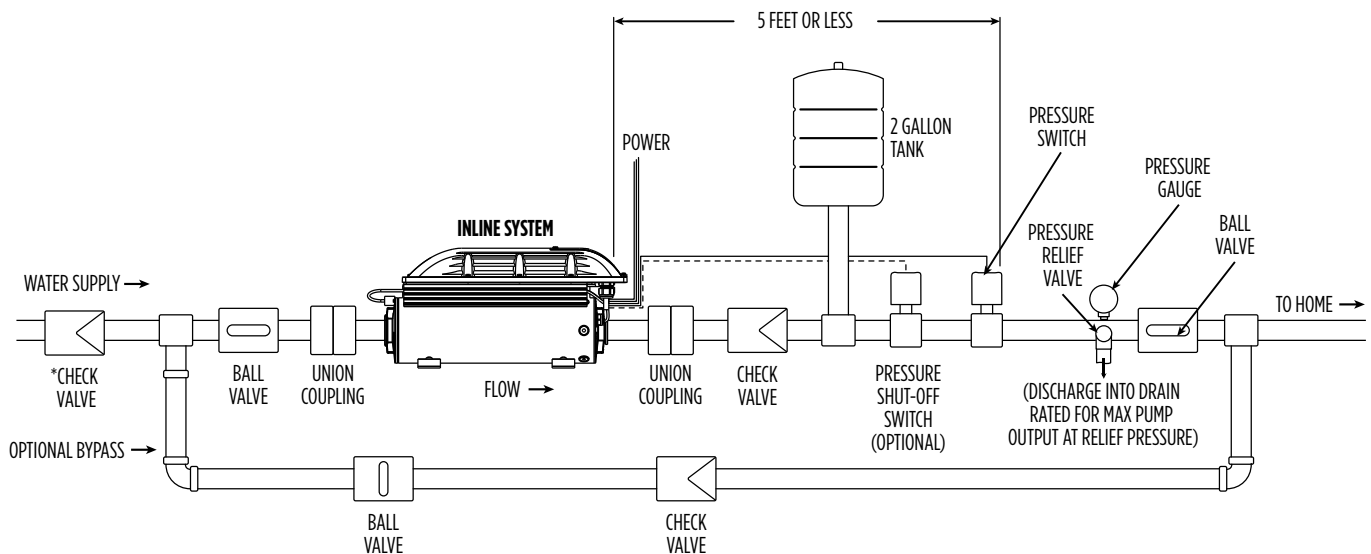


INLINE CONSTANT PRESSURE - INLINE 1100

DIMENSIONS



TYPICAL INSTALLATION



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.

* When connected to a municipal system, if the plumbing does not have a backflow prevention device, a check valve is required on the incoming water supply line. If installed on a cistern, the check valve should be passive or be eliminated.



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