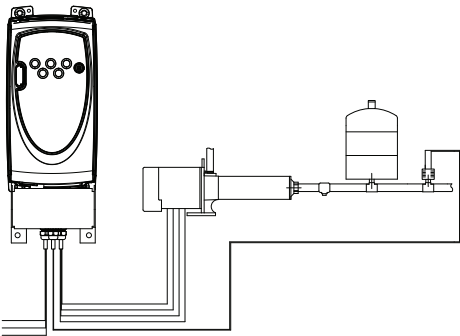




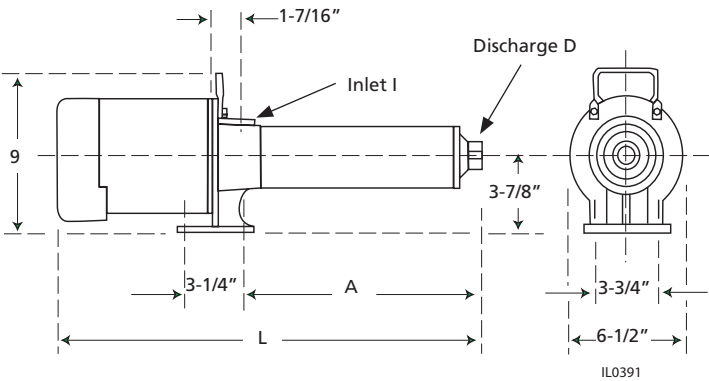
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Artesian Drive®
Constant Pressure
Booster Pump Systems

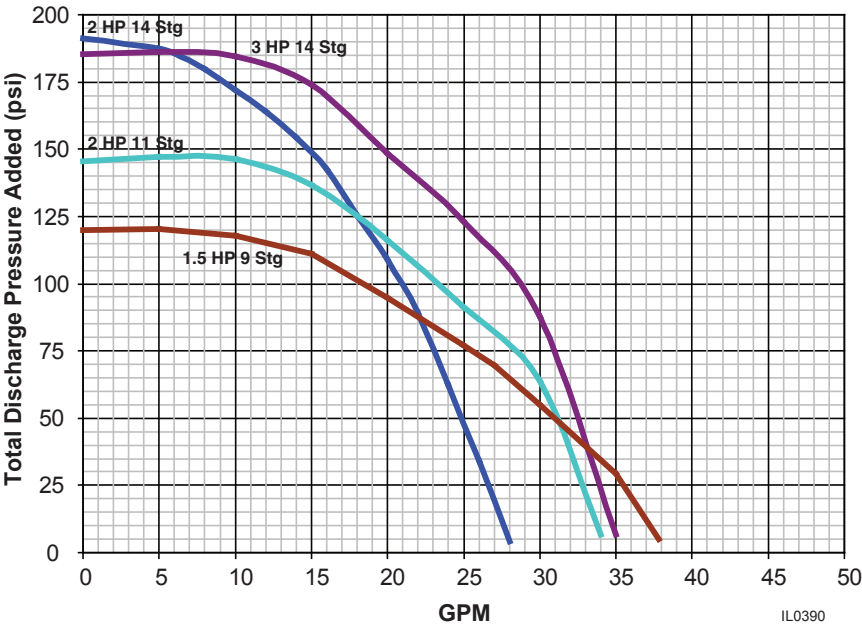


IL0729

Quantity	Model Number	System Discharge Pressure (PSI)	Flow (GPM)	System Inlet Pressure (PSI)	Volts	Phase	Comments



PRESSURE BOOSTER PUMP



IL0390

PUMP PERFORMANCE SPECIFICATIONS

PRESSURE ADDED - PSI†					10	20	40	60	80	100	120	140	160	180	Max. Press. PSI	Dimensions in Inches				Ship Wt (Lbs.)
Stainless Steel Fitted	Powder- Coated Cast Iron Fitted	Cast Iron Fitted	HP	Stage	Output - Gallons per Minute											A	Overall Length L	Inlet Pipe Tap I	Disch. Pipe Tap D	
PB1914S203	PB1914C203	PB1914A203	2	14	27.5	27.0	25.7	24.2	22.6	20.8	18.7	16.2	13.0	7.8	190	17-7/8	30	3/4" NPT	3/4" NPT	56
PB2709S153	PB2709A153	PB2709C153	1.5	9	37.3	36.1	33.1	28.8	24.5	18.5					120	15-1/16	26-5/8	1" NPT	1" NPT	
PB2711S203	PB2711C203	PB2711A203	2	11	*	*	31.3	29.3	26.8	23.8	19.8	13.0			150	15-3/8	27-1/2			56
PB2714S303	PB2714C303	PB2714A303	3	14	*	*	32.2	30.6	28.9	27.0	24.8	22.0	18.4	12.2	190	18-1/2	30-9/16			57

* Operation of pump in this range may result in reduced pump life and/or motor damage.
To keep pump and seal lubricated, a minimum flow of 1.5 GPM must always be maintained through the pump.

GENERAL DATA

PUMP DATA

Flow Range: 1.5 TO 41.5 U.S. GPM
Pressure Boost Range: 86 to 216 PSI
Liquid Temperatures: 34°F to 140°F



Agency Approvals:
Duty Cycle Continuous
Pumping Medium Clear Water
Service/Repair Information . . . Pump and Motor Field Serviceable

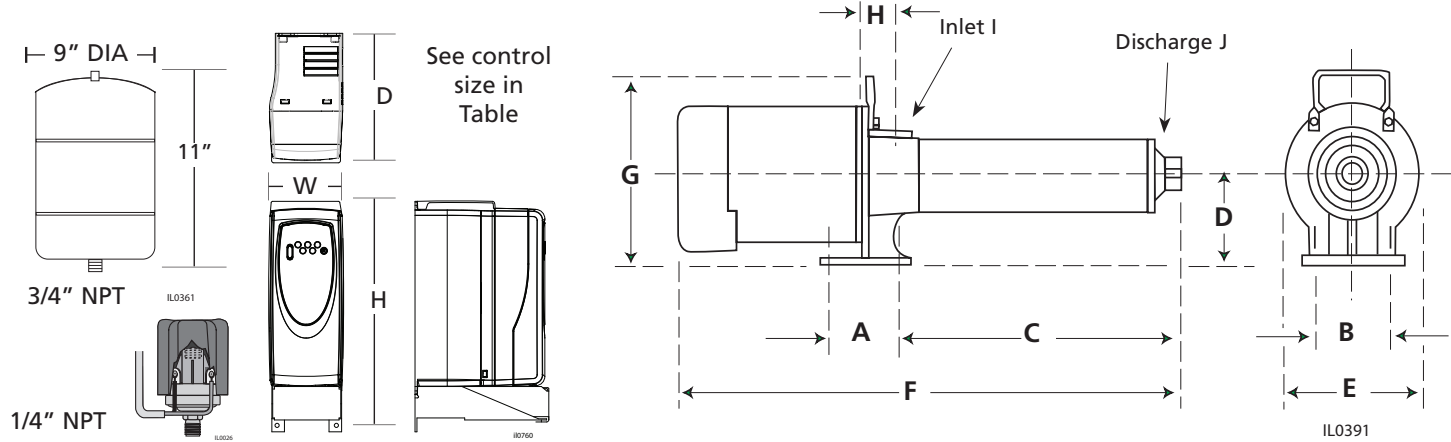
MOTOR DATA

HP	Locked- Rotor Torque (Starting Torque)	3 Phase				
		S.F.	Max. Amb.	Breakdown Torque	Peak Output Power	
	In-Lbs.			In-Lbs.	HP	kW
1.5	59	1.3	65° C	90	4.3	3.2
2	63	1.25	65° C	112	5.3	4.0
3	65	1.0	40° C	125	5.9	4.4

Motor Voltage: Three Phase 1/2 - 2 HP - 208-230/460, 50/60Hz
Three Phase 3 HP - 208-230/460, 60Hz

		AD070059	AD096074	AD096096
Input from Power Source (single phase)	Voltage	180 -264 AC	180 -264 AC	180 -264 AC
	Frequency	48 - 62 Hz	48 - 62 Hz	48 - 62 Hz
	Current (max)	17.4 Amps RMS 1ø (8.7 Amps 3ø)	23.2 Amps RMS 1ø (11.9 Amps 3ø)	23.2 Amps RMS 1ø (11.9 Amps 3ø)
	Power Factor	1.0 (constant)	1.0 (constant)	1.0 (constant)
Output to Motor (three-phase)	Voltage	Adjusts with Frequency	Adjusts with Frequency	Adjusts with Frequency
	Frequency Range	30 - 60 Hz	30 - 60 Hz	30 - 60 Hz
	Current Factory Programmed	5.9 amps (RMS, each phase)	7.4 amps (RMS, each phase)	9.6 amps (RMS, each phase)
	Current (max)	7.0 amps (RMS, each phase)	9.6 amps (RMS, each phase)	9.6 amps (RMS, each phase)
Pressure Setting	Factory preset	50 PSI	50 PSI	50 PSI
	Adjustment range	30 - 80 PSI	30 - 80 PSI	30 - 80 PSI
Operating Conditions	Temperature (at 230 VAC input)	-10° to 40°C (14° to 104°F)	-10° to 40°C (14° to 104°F)	-10° to 40°C (14° to 104°F)
	Relative Humidity	Max 95% Non-condensing	Max 95% Non-condensing	Max 95% Non-condensing
Controller Size	NEMA 1 (indoor)	10.47" H x 3.35" W x 6.15" D	12.54" H x 3.94" W x 6.80" D	12.54" H x 3.94" W x 6.80" D
For Use With	Pump (60 Hz)	Standard 60Hz Pump & 3ø Motor Combination	Standard 60Hz Pump & 3ø Motor Combination	Standard 60Hz Pump & 3ø Motor Combination
	Motor (3-Phase, 230V)			
Weight		3.1 lbs.	4.6 lbs.	4.6 lbs.

COMPONENT DIMENSIONS

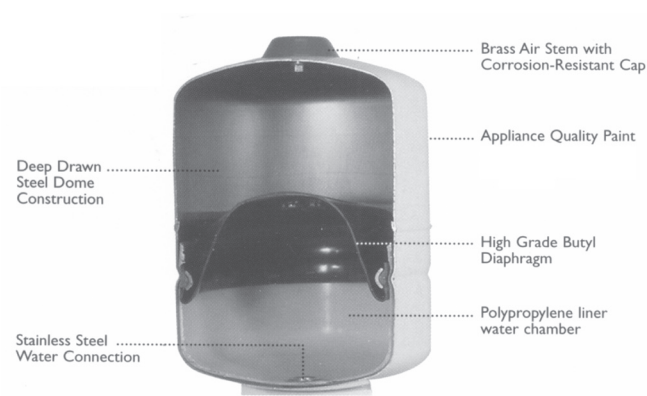


60 HZ MOTOR DRIVEN PUMP DIMENSIONS

Stainless Steel Fitted	Powder-Coated Cast Iron Fitted	Cast Iron Fitted	Dimensions In Inches										Lbs. Ship Wt.
			A	B	C	D	E	F	G	H	I	J	
PB1914S203	PB1914C203	PB1914A203	3-1/4	3-3/4	18-1/8	3-7/8	6-1/2	29-11/16	9	1-7/16	3/4	3/4	51
PB2709S153	PB2709A153	PB2709C153	3-1/4	3-3/4	15-1/16	3-7/8	6-1/2	26-5/8	9	1-7/16	1	1	52
PB2711S203	PB2711C203	PB2711A203	3-1/4	3-3/4	15-3/8	3-7/8	6-1/2	27-1/2	9	1-7/16	1	1	52
PB3506S203	PB3506C203	PB3506A203	3-1/4	3-3/4	13-15/16	3-7/8	6-1/2	25-7/8	9	1-7/16	1	1	51
PB2714S303	PB2714C303	PB2714A303	3-1/4	3-3/4	18-1/2	3-7/8	6-1/2	30-9/16	9	1-7/16	1	1	54
PB3508S303	PB3508C303	PB3508A303	3-1/4	3-3/4	17-1/8	3-7/8	6-1/2	29-3/16	9	1-7/16	1	1	53

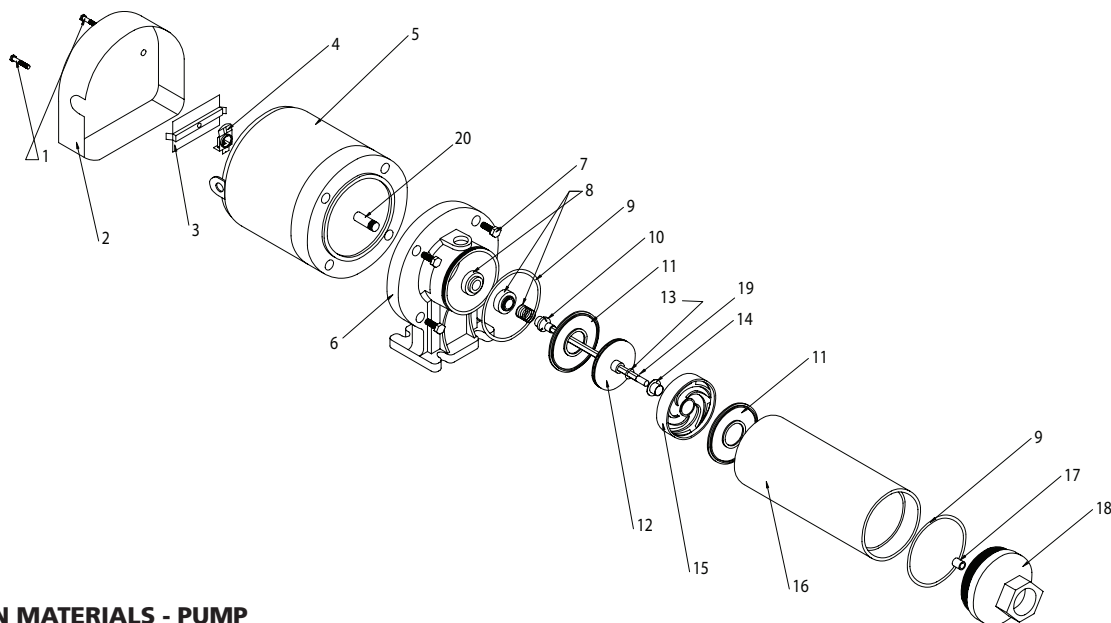
(*) NOTE: Figure 1, holes in mounting base are open slotted 3/8" wide x 1/2" long; dimension A & B are centerline from these open slotted holes. These holes are suitable for 1/4 to 3/8" bolts.

AIR-E-TAINER® TANK DATA



PRESSURE TANK AIR-E-TAINER®

Total Tank Volume 2.1 U.S. Gal., 18 Litres
 Dia. 9"
 Height 11"
 Ship Wt. 10 lbs.
 Max. Working Pressure: 100 PSI
 Connection: 3/4" NPT Stainless Steel
 PreCharge: 35 PSI (factory set) adjustable
 Diaphragm Liner. FDA Approved, high grade Butyl rubber compound
 Max. Working Temp. 90°C / 200°F



IL0127

CONSTRUCTION MATERIALS - PUMP

ITEM NO.	DESCRIPTION	CAST IRON/POWDER-COATED MODELS	SS MODELS
6	Mounting Ring	Cast Iron/Powder-Coated	304 S.S.
7	Motor/Mounting Ring Bolts (4)	Plated Steel	Plated Steel
8	Seal, Rotary w/Spring	Carbon-Silicon-carbide, S.S. & Buna N	Carbon-Silicon-carbide, S.S. & Viton
9	O-Ring (2)	Buna-N	Viton
10	Coupling	316 Sintered S.S.	316 Sintered S.S.
11	Diffuser Plate	Celcon	Celcon
12	Impeller	Noryl 731	Noryl 731
13	Shim as Required	300 S.S.	300 S.S.
14	Diffuser Bearing	300 S.S.	300 S.S.
15	Diffuser	Noryl 731	Noryl 731
16	Barrel	304 S.S.	304 S.S.
17	Discharge Bearing	Sintered Bronze	Sintered Bronze
18	Discharge Head	Cast Iron/Powder-Coated	304 S.S.
19	Pump Shaft	416 S.S.	303 S.S.

CONSTRUCTION MATERIALS - MOTOR

ITEM NO.	DESCRIPTION	CAST IRON/POWDER-COATED MODELS	SS MODELS
1	Cover Bolts (2)	Plated Steel	Plated Steel
2	Cover	Valox	Valox
3	Switch	AgCd Contacts	AgCd Contacts
4	Governor	Zinc Plated CRS	Zinc Plated CRS
5	Motor Shell	Zinc-Clad Steel	Zinc-Clad Steel
20	Motor Shaft	416 S.S.	303 S.S.

Tech Support
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1-800-345-9422

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