

# SELF-PRIMING PUMPS

Irrigation and sprinkler pumps are designed for supplying large volumes of water from a lake or pond supply to an irrigation system. They can also be in high-volume applications transferring water between locations. Franklin’s quality selection features shut-off pressures up to 130 feet and flow rates exceeding 90 gallons per minute that will please any contractor’s job.

## PRODUCT FAMILY

- Turf Boss
- FBSE Series

## APPLICATIONS

- Agricultural Irrigation
- Lawn Sprinkling
- Industrial Dewatering
- HVAC Systems (Heat Pump and Air Conditioning)
- Water Transfer and Supply
- Freshwater Pumping
- Commercial/Industrial Liquid Transfer
- Dewatering
- Flood Irrigation
- Livestock Watering
- Septic Tank Installations (in areas with drainage problems)



## FAMILY COMPARISON CHART

Model	Performance	10	20	30	40	50	60
Turf Boss	Shut-off PSI	56					
	Max. Lift	25					
FBSE Series	Shut-off PSI	30					
	Max. Lift	25					

## SELF-PRIMING IRRIGATION PUMPS - TURF BOSS

### FEATURES

- Self-priming design with the ability to lift water from a depth of 25'
- Easily serviced through a back pull-out design, which leaves all the plumbing and both the pump's base and case undisturbed in their original location
- Rugged cast iron case ensures optimum durability, quiet operation, and long life
- Modified PPO hydraulic components and floating stainless steel impeller eye-seal ensures dependable and efficient operation
- 304 stainless steel impeller available for maximum durability
- 1- and 3-phase motors available with dual voltage on smaller horsepower models
- Mechanical shaft seal allows positive protection against leaking
- Integral 1" NPT priming plug and built-in drain plug for easy winterizing and servicing
- Shut-off pressures to 130 feet, flow rates to 70 gpm, and water temperatures to 120 °F



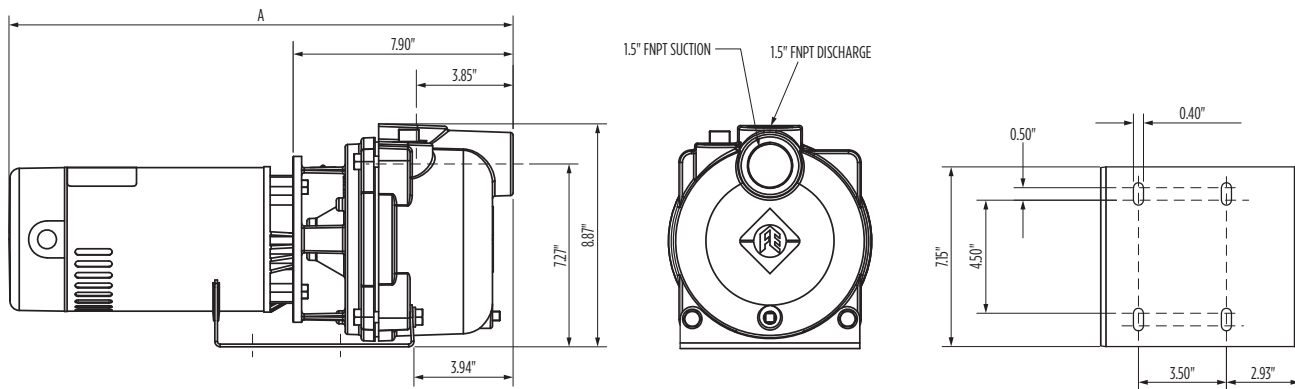
### ORDERING INFORMATION

Complete Pump							Pump End Only		
Model	HP	Phase	Suc. x Dis. (FNPT)	Voltage	Order No.	Wt. (lbs)	Model	Order No.	Wt. (lbs)
FTB1CI	1	1	1-1/2" x 1-1/2"	115/230	92980010	50	FTB1CI-PE	92940010	28
FTB15CI	1-1/2			115/230	92980015	57	FTB15CI-PE	92940015	28
FTB2CI	2			230	92980020	58	FTB2CI-PE	92940020	28
FTB1CI-SSI*	1	1		115/230	92981010	52	FTB1CI-SSI-PE*	92941010	30
FTB15CI-SSI*	1-1/2			115/230	92981015	59	FTB15CI-SSI-PE*	92941015	30
FTB2CI-SSI*	2			230	92981020	60	FTB2CI-SSI-PE*	92941020	30
FTB1CI-SSI-T*	1	3		208-230/460	92983010	51	-	-	-
FTB15CI-SSI-T*	1-1/2			208-230/460	92983015	55	-	-	-
FTB2CI-SSI-T*	2			208-230/460	92983020	57	-	-	-

\*Stainless steel impeller

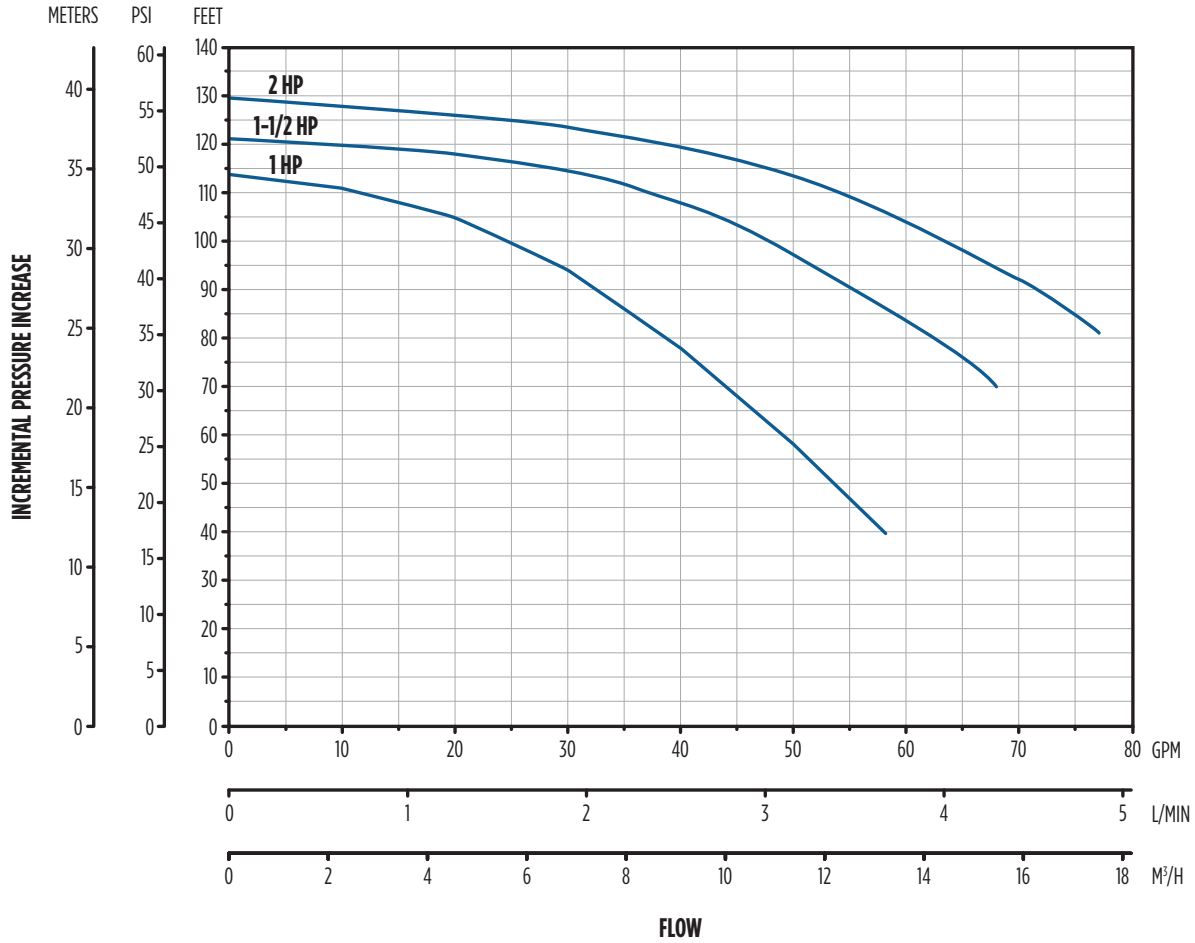
### DIMENSIONS

Model	HP	A (1-Phase)	A (3-Phase)
FTB1CI	1	20.00"	23.40"
FTB15CI	1-1/2	21.60"	25.00"
FTB2CI	2	21.60"	25.00"



# SELF-PRIMING IRRIGATION PUMPS - TURF BOSS

## PERFORMANCE



Model	HP	Total Suction Lift (ft)	Discharge Pressure (PSI)							Shut-off Pressure (PSI)
			20	25	30	35	40	45	50	
			Gallons Per Minute (GPM)							
FTB1C1	1	5	53.0	47.0	42.0	36.0	27.0	13.0	-	46
		10	49.0	45.0	38.0	32.0	23.0	-	-	44
		15	45.0	43.0	37.0	28.0	17.0	-	-	42
		20	38.0	37.0	33.0	24.0	-	-	-	40
		25	28.0	27.0	27.0	18.0	-	-	-	38
FTB15C1	1-1/2	5	65.0	64.0	63.0	58.0	48.0	37.0	-	50
		10	58.0	58.0	57.0	55.0	45.0	26.0	-	48
		15	50.0	49.0	48.0	48.0	40.0	-	-	46
		20	41.0	40.0	39.0	38.0	32.0	-	-	44
		25	29.0	28.0	28.0	27.0	17.0	-	-	42
FTB2C1	2	5	70.0	69.0	69.0	68.0	65.0	53.0	35.0	52
		10	61.0	60.0	60.0	59.0	58.0	47.0	-	50
		15	52.0	51.0	50.0	49.0	48.0	37.0	-	49
		20	41.0	40.0	39.0	38.0	35.0	-	-	47
		25	29.0	28.0	27.0	25.0	22.0	-	-	45

## SELF-PRIMING EFFLUENT PUMPS - FBSE SERIES

### FEATURES

- Cast iron volute with tapped openings for priming, venting, and draining
- Semi-open cast iron impeller that is blind-hold tapped so liquid will not corrode the shaft; Ideal for handling fertilizer, salt water, dirty water, and other liquids
- Mechanical seal with carbon/ceramic faces, FKM elastomers, and 300-series stainless steel components
- Reliable, industry-standard 1/2-3 hp motor; higher than NEMA service factor
- Capacities to 126 gpm; Heads to 70 feet
- 75 psi maximum working pressure; 120 °F maximum temperature
- Clockwise rotation when viewed from motor end



### ORDERING INFORMATION

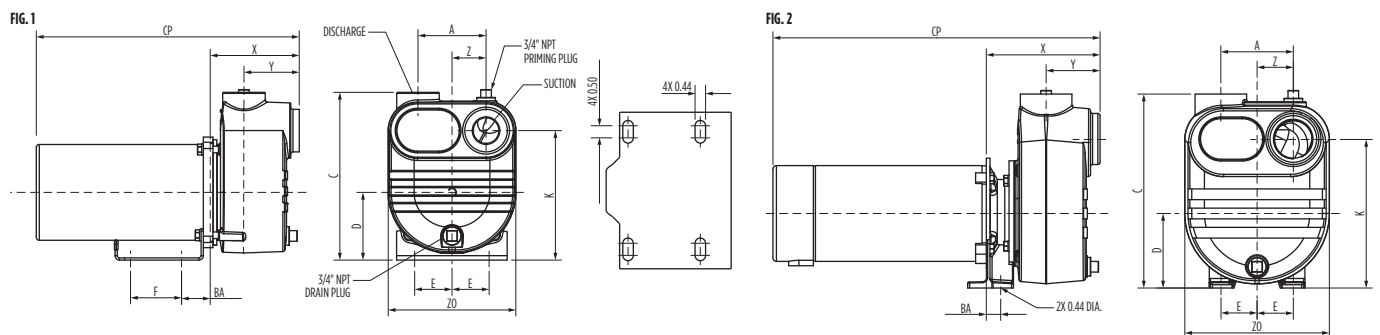
Complete Pump							Pump End Kit		
Model	HP	PH	Volts	Dis. x Suc. (NPT)	Order No.	Wt. (lbs)	Model	Order No.	Wt. (lbs)
FBSE-50-S	1/2	1	115/230	1-1/4" x 1-1/4"	92931005	41	FBSE-50-K	92925005	18
FBSE-75-S	3/4	1	115/230	1-1/4" x 1-1/4"	92931007	42	FBSE-75-K	92925007	18
FBSE-100-S	1	1	115/230	1-1/4" x 1-1/4"	92931010	46	FBSE-100-K	92925010	18
FBSE-150-S	1-1/2	1	115/230	2" x 2"	92931015	52	FBSE-150-K	92925015	18
FBSE-200-S	2	1	230	2" x 2"	92931020	60	FBSE-200-K	92925020	22
FBSE-300-S	3	1	230	2" x 2"	92931030	70	FBSE-300-K	92925030	25
FBSE-300-T	3	3	208-230/460	2" x 2"	92933030	60	FBSE-300-K	92925030	25

NOTE: Pump End Kits (less motor) use 56J C face motors

### DIMENSIONS

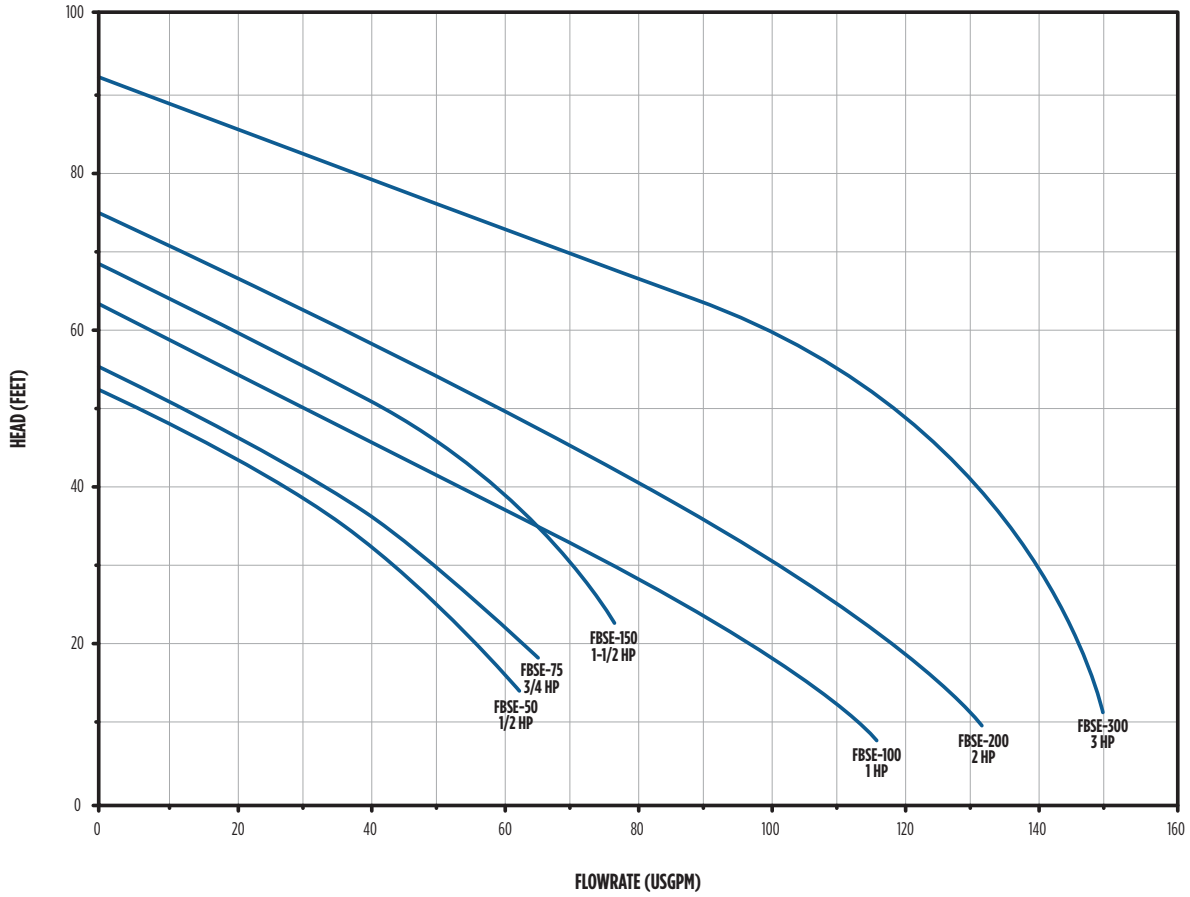
Model	HP	Fig.	Dis. x Suc. (NPT)	CP	A	BA	C	D	E	F	K	X	Y	Z	Z0
FBSE-50-S	1/2	1	1-1/4" x 1-1/4"	15.46"	4.00"	1.69"	9.86"	3.98"	2.20"	3.00"	7.61"	5.23"	3.25"	2.00"	7.50"
FBSE-75-S	3/4	1	1-1/4" x 1-1/4"	15.96"	4.00"	1.69"	9.86"	3.98"	2.20"	3.00"	7.61"	5.23"	3.25"	2.00"	7.50"
FBSE-100-S	1	1	1-1/4" x 1-1/4"	16.96"	4.00"	1.69"	9.86"	3.98"	2.20"	3.00"	7.61"	5.23"	3.25"	2.00"	7.50"
FBSE-150-S	1-1/2	1	2" x 2"	17.91"	4.26"	1.69"	11.00"	3.98"	2.20"	3.00"	8.36"	5.44"	3.17"	2.13"	8.50"
FBSE-200-S	2	1	2" x 2"	19.16"	4.26"	1.69"	11.00"	3.98"	2.20"	3.00"	8.36"	5.44"	3.17"	2.13"	8.50"
FBSE-300-S	3	2	2" x 2"	19.23"	4.26"	0.85"	11.44"	4.38"	2.13"	N/A	8.37"	6.69"	3.17"	2.13"	8.50"
FBSE-300-T	3	2	2" x 2"	20.43"	4.26"	0.85"	11.44"	4.38"	2.13"	N/A	8.37"	6.69"	3.17"	2.13"	8.50"

NOTE: Dimensions are for estimating purposes only



## SELF-PRIMING EFFLUENT PUMPS - FBSE SERIES

### PERFORMANCE



Model	HP	Shut-off Head (ft)	Discharge Pressure (PSI)						
			10	20	30	40	50	60	70
Gallons Per Minute (GPM)									
FBSE-50	1/2	52	-	56.0	44.0	27.0	6.0	-	-
FBSE-75	3/4	55	-	63.0	49.0	34.0	12.0	-	-
FBSE-100	1	64	113.0	97.0	76.0	54.0	30.0	8.0	-
FBSE-150	1-1/2	68	-	-	70.0	58.0	42.0	19.0	-
FBSE-200	2	75	131.0	118.0	101.0	82.0	59.0	36.0	12.0
FBSE-300	3	92	-	145.0	139.0	132.0	119.0	100.0	69.0