

# **J-CLASS** SandHandler 50 Hz



**Franklin Electric**



## ***4" Submersible Pumps***

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## **4" SandHandler TRI-SEAL**

The standard J-Class SandHandler 4" submersible pump features the new Tri-Seal floating stage system. This new stage system further improves efficiency and protects against wear when pumping abrasives like sand.

### **Features:**

- 300 series stainless steel hub floats with the impeller maintaining a positive seal.
- Phenolic washer provides downthrust protection.
- Celcon® impeller provides high efficiency performance and abrasion resistance.
- Noryl® diffuser and disc - proven abrasion resistant material.
- Floating stage design allows impeller to float independently.
- Removable, spring-loaded check valve.
- Maximum water temperature: 120 °F / 49 °C.
- Ceramic shaft sleeve and rubber discharge bearing protect shaft and eliminate sand wear.
- Powered by Franklin Electric corrosion resistant 4" submersible motors.

Celcon® is a Registered Trademark of the Celanese Corporation.

Noryl® is a Registered Trademark of G.E.

Patented impeller hub seal system seals radially and axially to prevent fluid recirculation, providing high performance in the harshest conditions.

CSA CERTIFIED  
PUMP END ONLY



Drinking Water  
NSF/ANSI 61

## *Tri-Seal™ Floating Stage System*

U.S. Patent No. 7,290,984

### ***Seal 1***

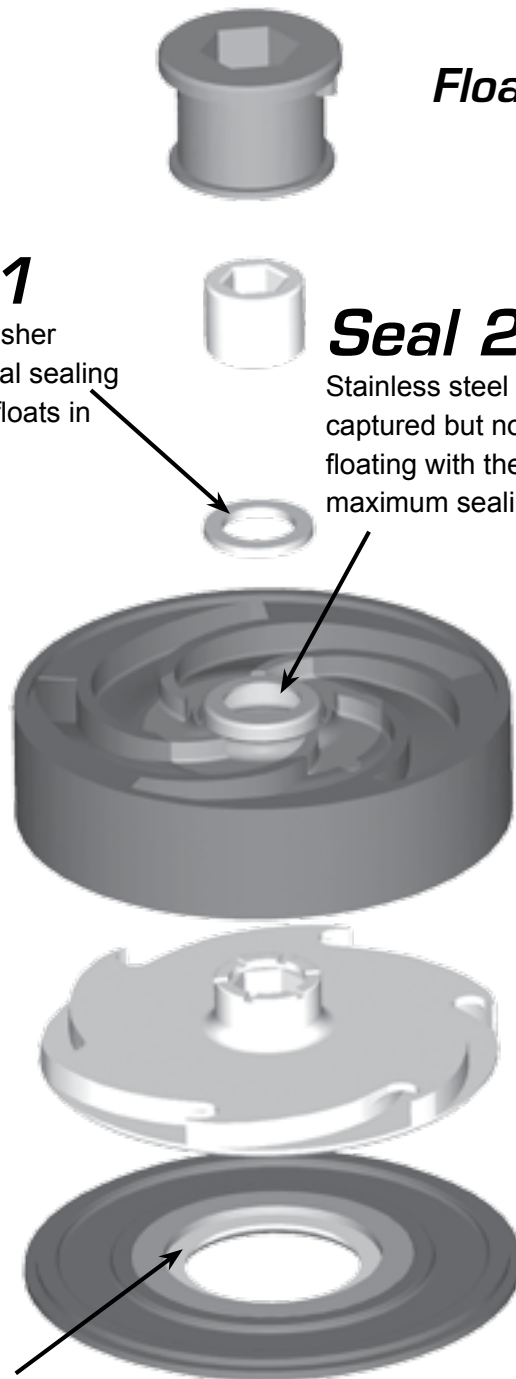
Phenolic washer provides axial sealing as impeller floats in the stage.

### ***Seal 2***

Stainless steel hub seal is captured but not stationary, floating with the impeller for maximum sealing.

### ***Seal 3***

Stainless steel impeller eye seal.



**J-CLASS**  
SandHandler

## 18 LPM Tri-Seal

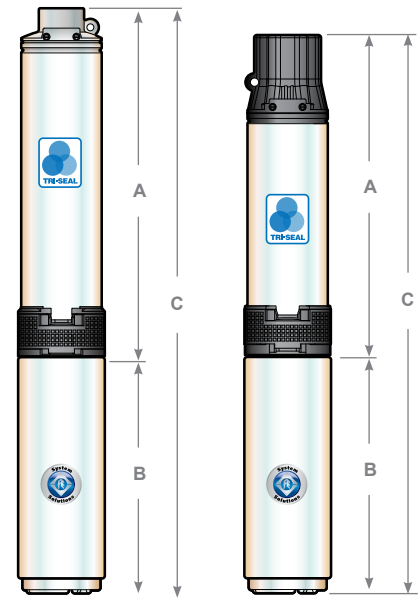
### 18 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
18	1/2	0.37	9	18JS05P4-PEXB	95650506
	3/4	0.55	13	18JS07P4-PEXB	95650511
	1	0.75	17	18JS1P4-PEXB	95650516
	1.5	1.1	26	18JS15P4-PEXB	95650521

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
18	1/2	0.37	9	18JS05S4-PEXB	95670506
	3/4	0.55	13	18JS07S4-PEXB	95670511
	1	0.75	17	18JS1S4-PEXB	95670516
	1.5	1.1	26	18JS15S4-PEXB	95670521
	2	1.5	35	18JS2S4-PEXB	95670526



### 18 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
18	1/2	0.37	370	242	611	370	242	611	3
	3/4	0.55	453	270	724	453	270	724	4
	1	0.75	535	298	833	535	298	833	5
	1.5	1.1	775	298	1073	775	345	1120	6

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
18	1/2	0.37	366	242	607	366	242	607	4
	3/4	0.55	449	270	719	449	270	719	5
	1	0.75	533	298	831	533	298	831	6
	1.5	1.1	774	298	1072	774	345	1119	7
	2	1.5	961	345	1307	961	384	1345	8

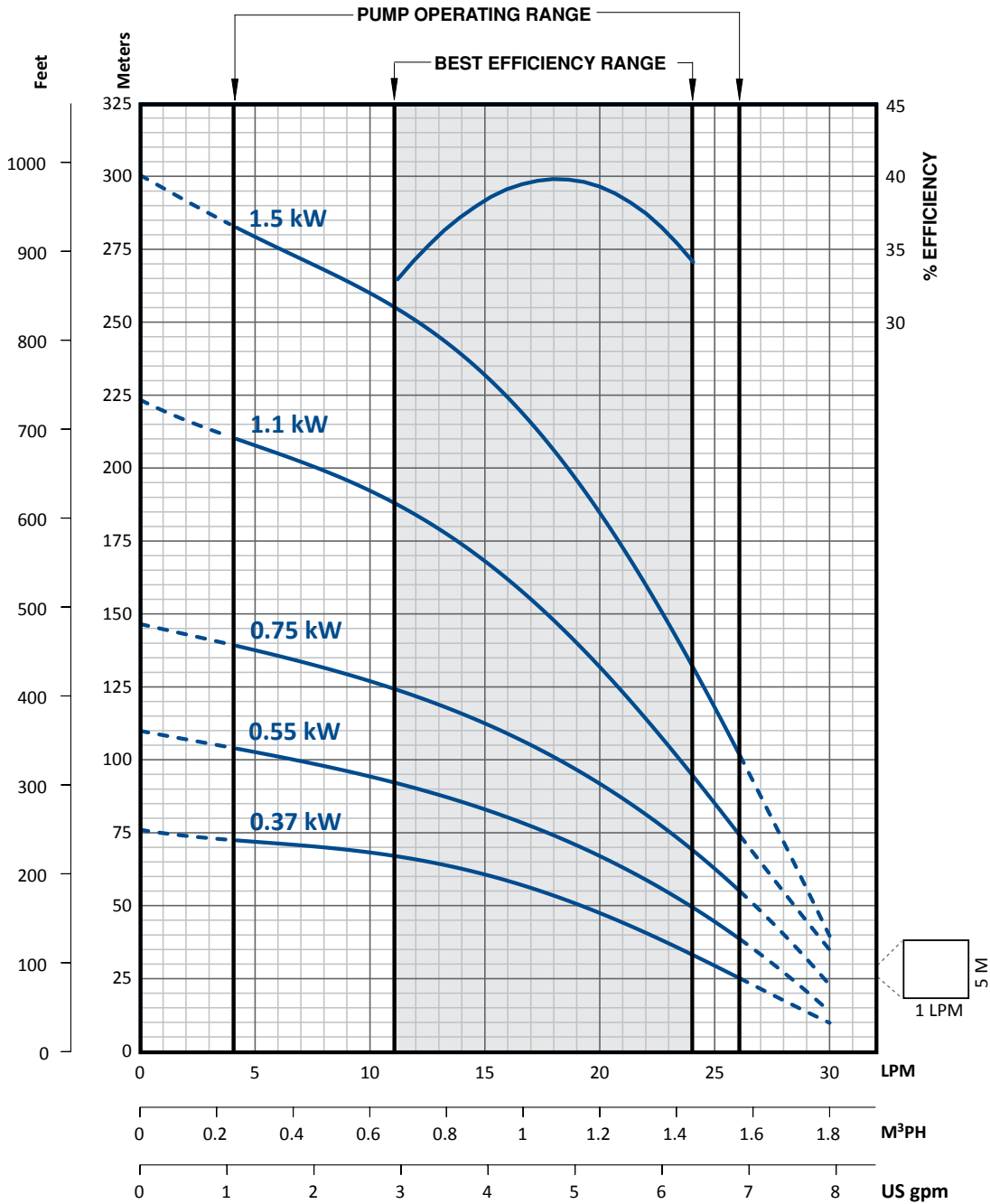
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 18 LPM Tri-Seal Performance Curves



## 25 LPM Tri-Seal

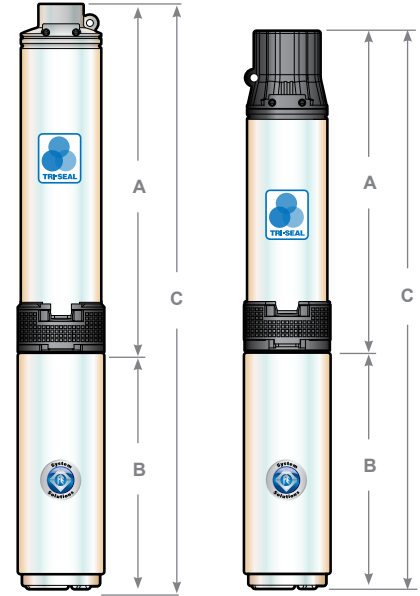
### 25 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
25	1/2	0.37	8	25JS05P4-PEXB	95650706
	3/4	0.55	12	25JS07P4-PEXB	95650711
	1	0.75	16	25JS1P4-PEXB	95650716
	1.5	1.1	24	25JS15P4-PEXB	95650721

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
25	1/2	0.37	8	25JS05S4-PEXB	95670706
	3/4	0.55	12	25JS07S4-PEXB	95670711
	1	0.75	16	25JS1S4-PEXB	95670716
	1.5	1.1	24	25JS15S4-PEXB	95670721
	2	1.5	32	25JS2S4-PEXB	95670726



### 25 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
25	1/2	0.37	349	242	591	349	242	591	2
	3/4	0.55	431	270	702	431	270	702	3
	1	0.75	514	298	812	514	298	812	5
	1.5	1.1	680	298	978	680	345	1026	6

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
25	1/2	0.37	345	242	586	345	242	586	3
	3/4	0.55	428	270	699	428	270	699	5
	1	0.75	512	298	810	512	298	810	6
	1.5	1.1	679	298	977	679	345	1024	7
	2	1.5	899	345	1244	899	384	1282	9

Note: P.E. – Pump end only

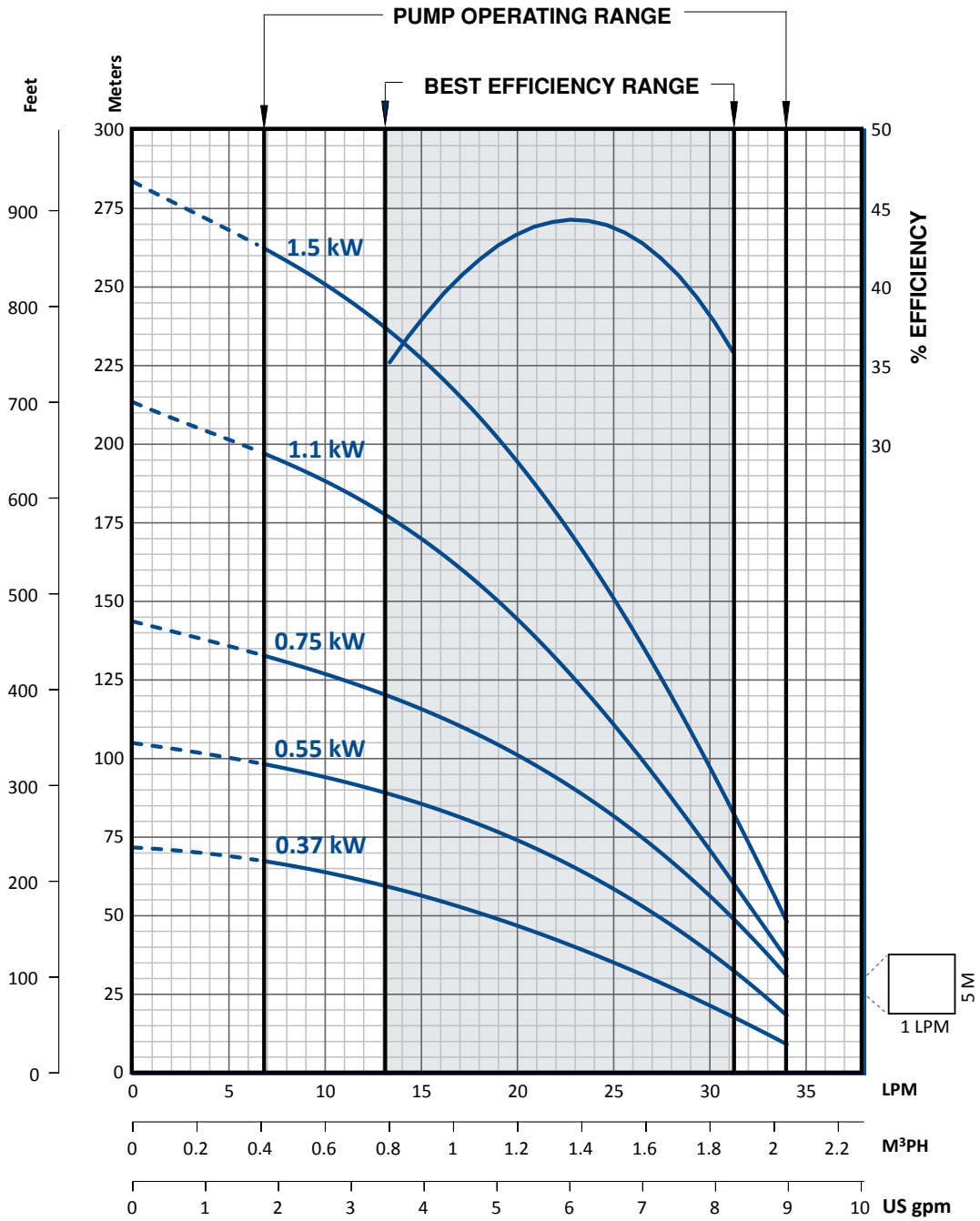
Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm



# 4" Submersible Pumps

## 25 LPM Tri-Seal Performance Curves



## 30 LPM Tri-Seal

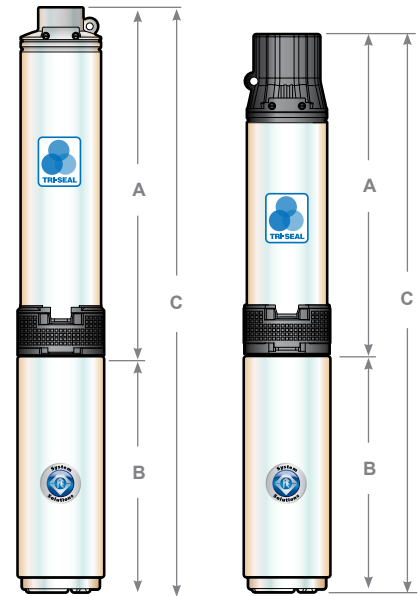
### 30 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
30	1/2	0.37	6	30JS05P4-PEXB	95651006
	3/4	0.55	8	30JS07P4-PEXB	95651011
	1	0.75	12	30JS1P4-PEXB	95651016
	1.5	1.1	18	30JS15P4-PEXB	95651021

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
30	1/2	0.37	6	30JS05S4-PEXB	95671006
	3/4	0.55	8	30JS07S4-PEXB	95671011
	1	0.75	12	30JS1S4-PEXB	95671016
	1.5	1.1	18	30JS15S4-PEXB	95671021
	2	1.5	24	30JS2S4-PEXB	95671026
	3	2.2	37	30JS3S4-PEXB	95671031
	5	3.7	59	30JS5S4-PEXB	95671036
	7.5	5.5	78	30JS7S4-PEXB	95671041



### 30 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
30	1/2	0.37	320	242	561	320	242	561	2
	3/4	0.55	364	270	634	364	270	634	3
	1	0.75	465	298	763	465	298	763	3
	1.5	1.1	647	298	945	647	345	992	5

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
30	1/2	0.37	315	242	556	315	242	556	4
	3/4	0.55	359	270	629	359	270	629	4
	1	0.75	453	298	751	453	298	751	5
	1.5	1.1	642	298	940	642	345	987	7
	2	1.5	780	345	1125	780	384	1163	8
	3	2.2	1076	407	1484	1076	484	1560	9
	5	3.7	1676	589	2265	1676	741	2417	15
	7.5	5.5	2166	741	2907	N/A	N/A	N/A	19

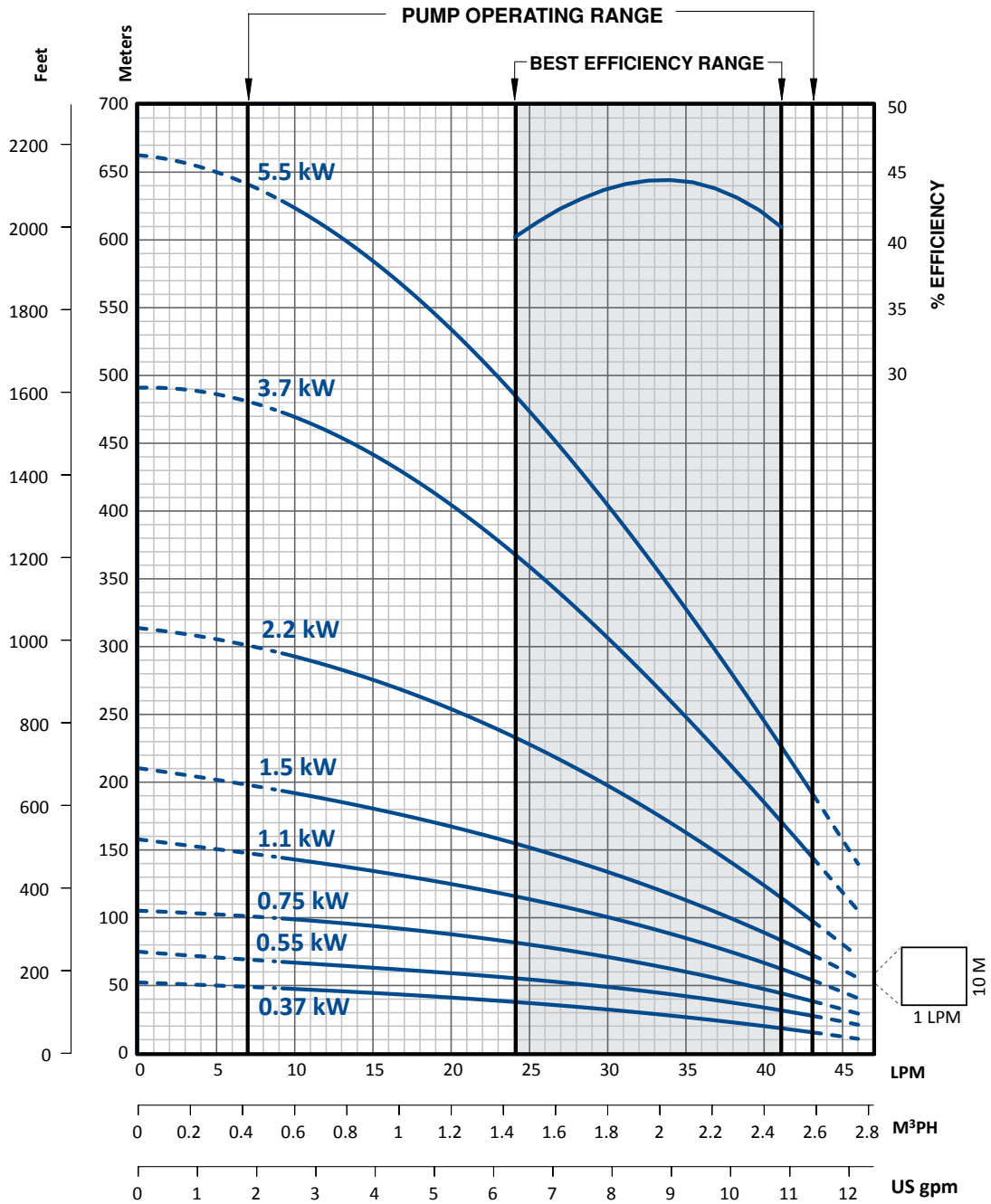
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 30 LPM Tri-Seal Performance Curves



## 45 LPM Tri-Seal

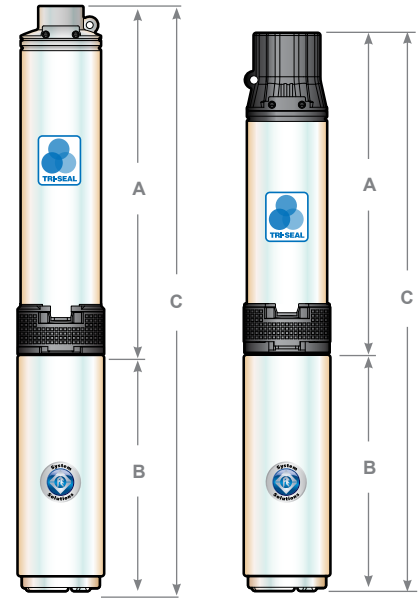
### 45 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
45	1/2	0.37	4	45JS05P4-PEXB	95651506
	3/4	0.55	8	45JS07P4-PEXB	95651511
	1	0.75	10	45JS1P4-PEXB	95651516
	1.5	1.1	15	45JS15P4-PEXB	95651521

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
45	1/2	0.37	4	45JS05S4-PEXB	95671506
	3/4	0.55	8	45JS07S4-PEXB	95671511
	1	0.75	10	45JS1S4-PEXB	95671516
	1.5	1.1	15	45JS15S4-PEXB	95671521
	2	1.5	19	45JS2S4-PEXB	95671526
	3	2.2	31	45JS3S4-PEXB	95671531
	5	3.7	46	45JS5S4-PEXB	95671536
	7.5	5.5	62	45JS7S4-PEXB	95671541



### 45 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
45	1/2	0.37	279	242	520	281	241	522	2
	3/4	0.55	363	270	633	363	270	633	3
	1	0.75	410	298	708	410	298	708	3
	1.5	1.1	525	298	823	525	345	871	5

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
45	1/2	0.37	269	242	510	269	242	510	3
	3/4	0.55	361	270	631	361	270	631	4
	1	0.75	407	298	705	407	298	705	4
	1.5	1.1	521	298	819	521	345	867	6
	2	1.5	665	345	1010	665	384	1048	7
	3	2.2	940	407	1347	940	484	1423	9
	5	3.7	1379	589	1968	1379	741	2120	14
	7.5	5.5	1745	741	2486	N/A	N/A	N/A	18

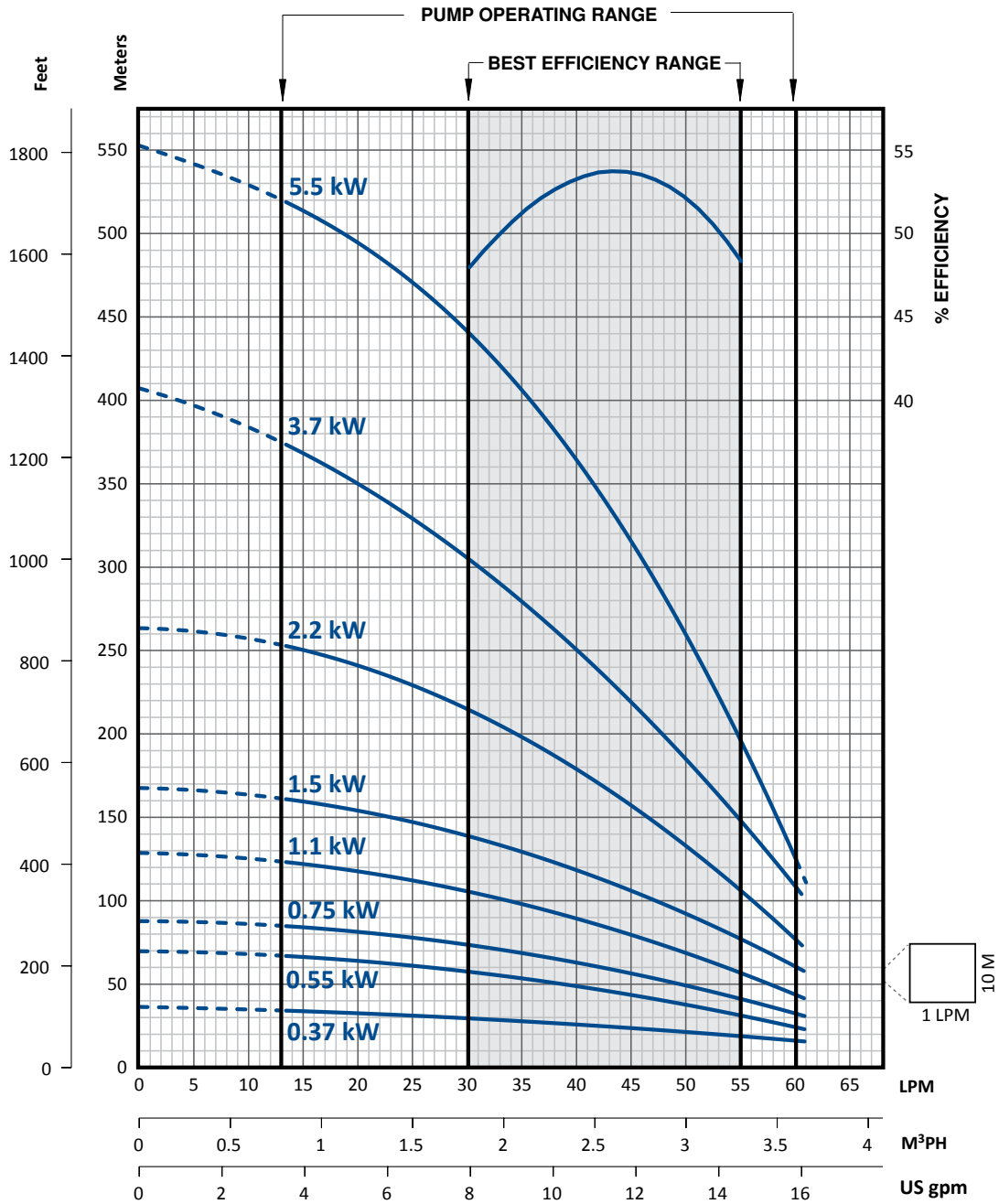
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 45 LPM Tri-Seal Performance Curves



## 60 LPM Tri-Seal

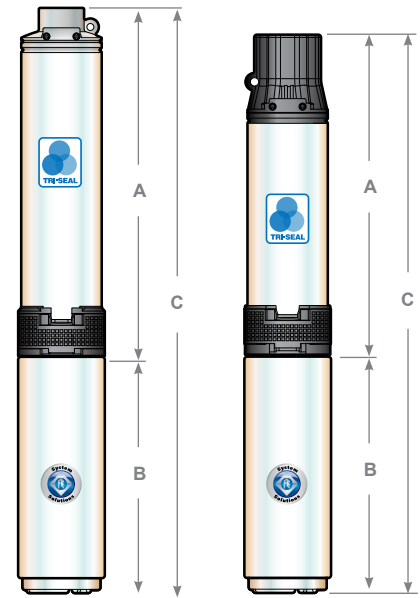
### 60 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
60	3/4	0.55	6	60JS07P4-PEXB	95652006
	1	0.75	8	60JS1P4-PEXB	95652011
	1.5	1.1	11	60JS15P4-PEXB	95652016

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
60	3/4	0.55	6	60JS07S4-PEXB	95672006
	1	0.75	8	60JS1S4-PEXB	95672011
	1.5	1.1	11	60JS15S4-PEXB	95672016
	2	1.5	16	60JS2S4-PEXB	95672021
	3	2.2	26	60JS3S4-PEXB	95672026
	5	3.7	39	60JS5S4-PEXB	95672036
	7.5	5.5	52	60JS7S4-PEXB	95672041



### 60 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
60	3/4	0.55	368	270	639	368	270	639	3
	1	0.75	430	298	728	430	298	728	4
	1.5	1.1	524	298	822	524	345	870	4

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
60	3/4	0.55	364	270	634	364	270	634	4
	1	0.75	426	298	724	426	298	724	4
	1.5	1.1	520	298	818	520	345	865	6
	2	1.5	674	345	1020	674	384	1058	6
	3	2.2	1038	407	1445	1038	484	1522	8
	5	3.7	1544	589	2133	1544	741	2285	13
	7.5	5.5	1948	741	2689	N/A	N/A	N/A	16

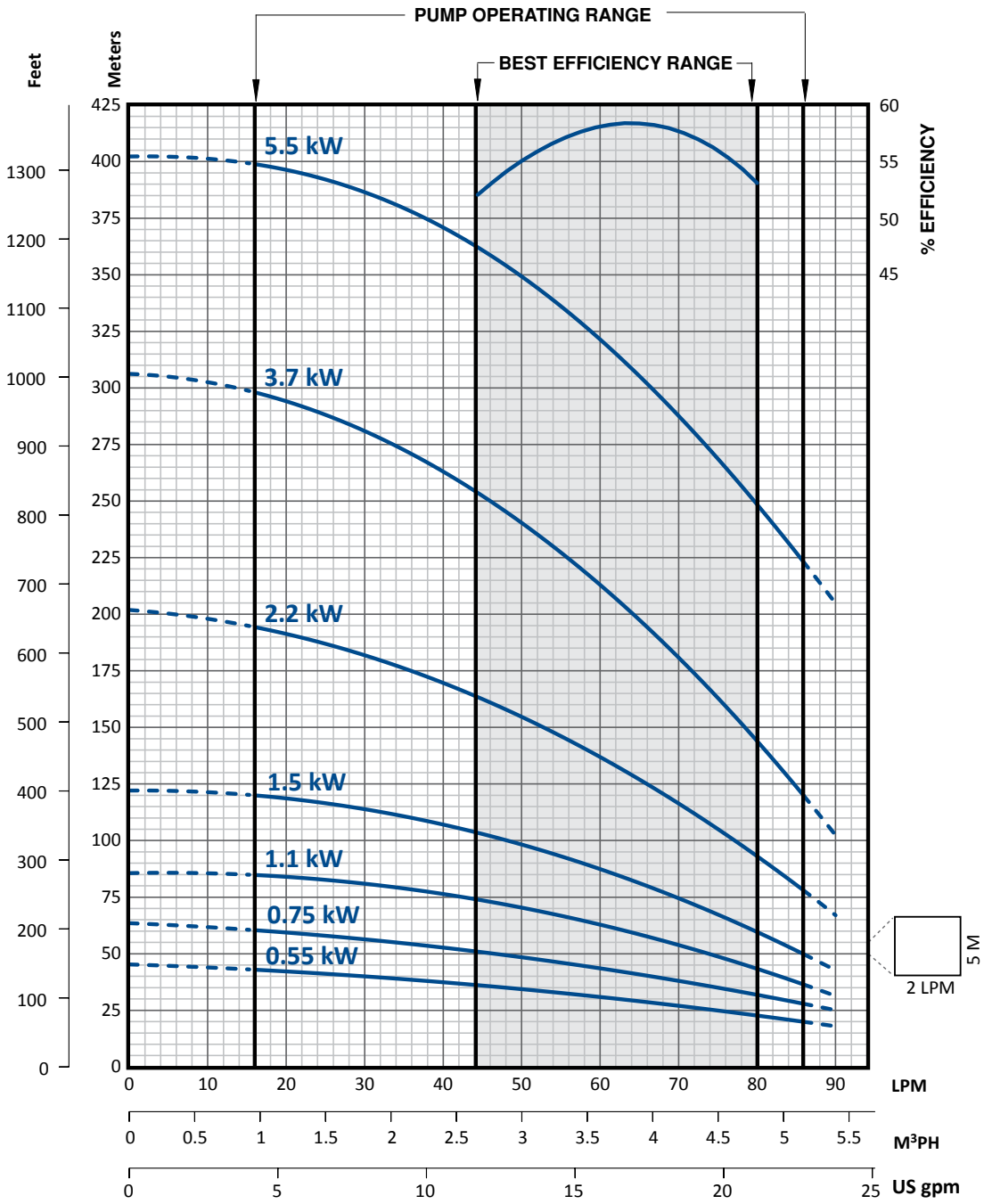
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 60 LPM Tri-Seal Performance Curves



## 70 LPM Tri-Seal

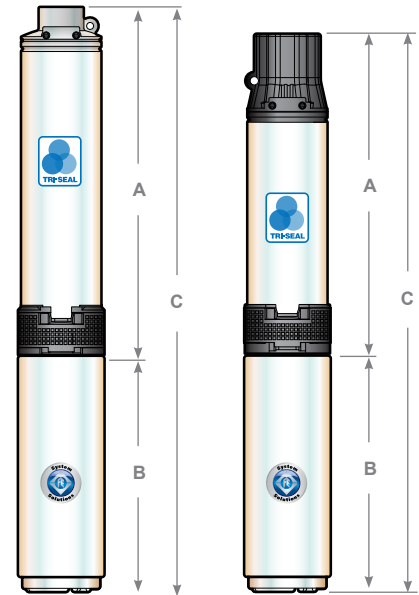
### 70 LPM Tri-Seal Ordering Information

#### Plastic

LPM	HP	kW	Stages	Model Description	Order No.
70	1	0.75	7	70JS1P4-PEXB	95652506
	1.5	1.1	10	70JS15P4-PEXB	95652511

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
70	1	0.75	7	70JS1S4-PEXB	95672506
	1.5	1.1	10	70JS15S4-PEXB	95672511
	2	1.5	14	70JS2S4-PEXB	95672516
	3	2.2	22	70JS3S4-PEXB	95672521
	5	3.7	35	70JS5S4-PEXB	95672536
	7.5	5.5	44	70JS7S4-PEXB	95672541



### 70 LPM Tri-Seal Dimensional Data

#### Plastic

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
70	1	0.75	399	298	697	399	298	697	4
	1.5	1.1	493	298	791	493	345	839	5

#### Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
70	1	0.75	395	298	693	395	298	693	4
	1.5	1.1	488	298	786	488	345	834	5
	2	1.5	612	345	958	612	384	996	6
	3	2.2	913	407	1321	913	484	1397	7
	5	3.7	1420	589	2009	1420	741	2161	12
	7.5	5.5	1699	741	2440	N/A	N/A	N/A	14

Note: P.E. – Pump end only

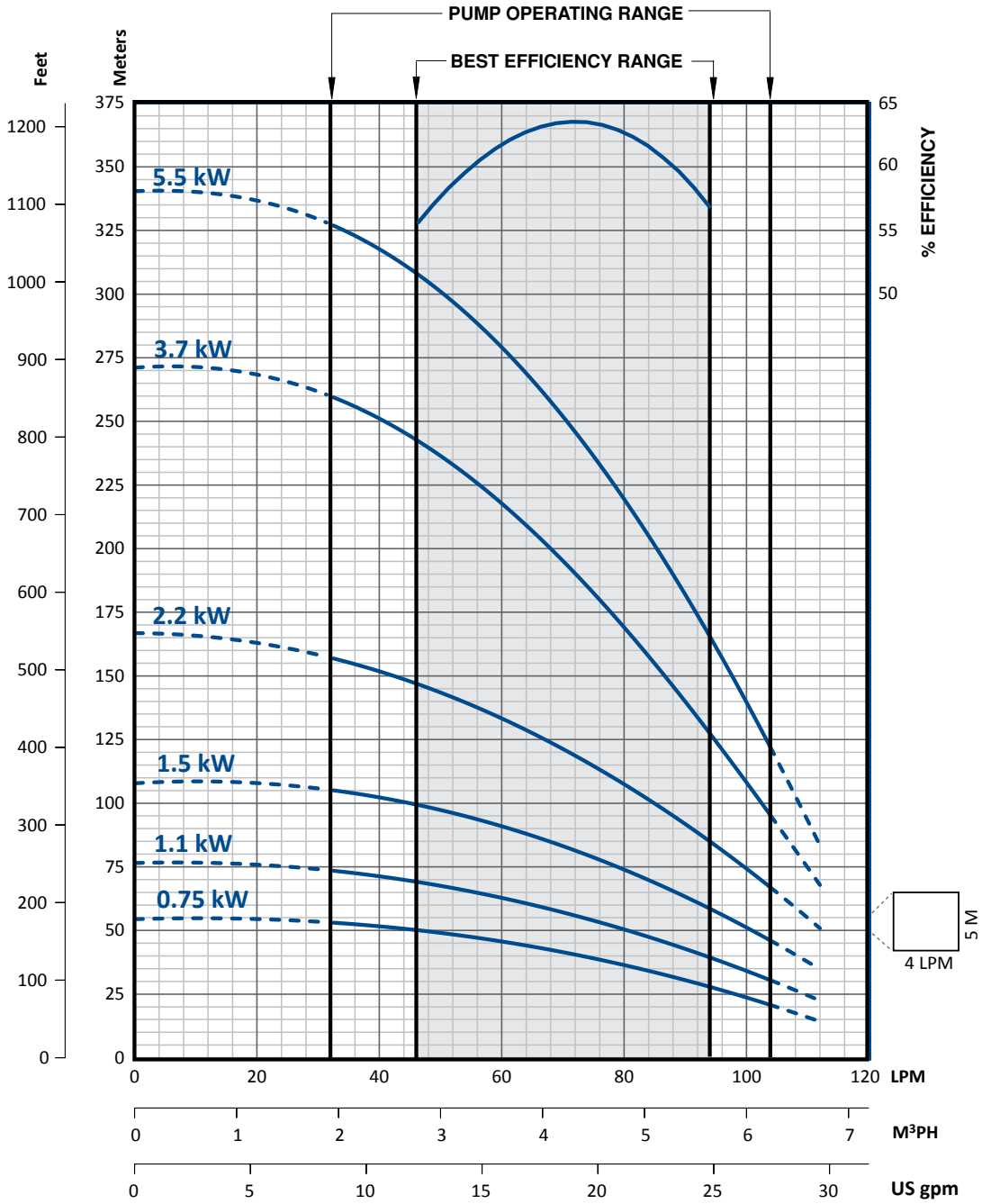
Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm



# 4" Submersible Pumps

## 70 LPM Tri-Seal Performance Curves



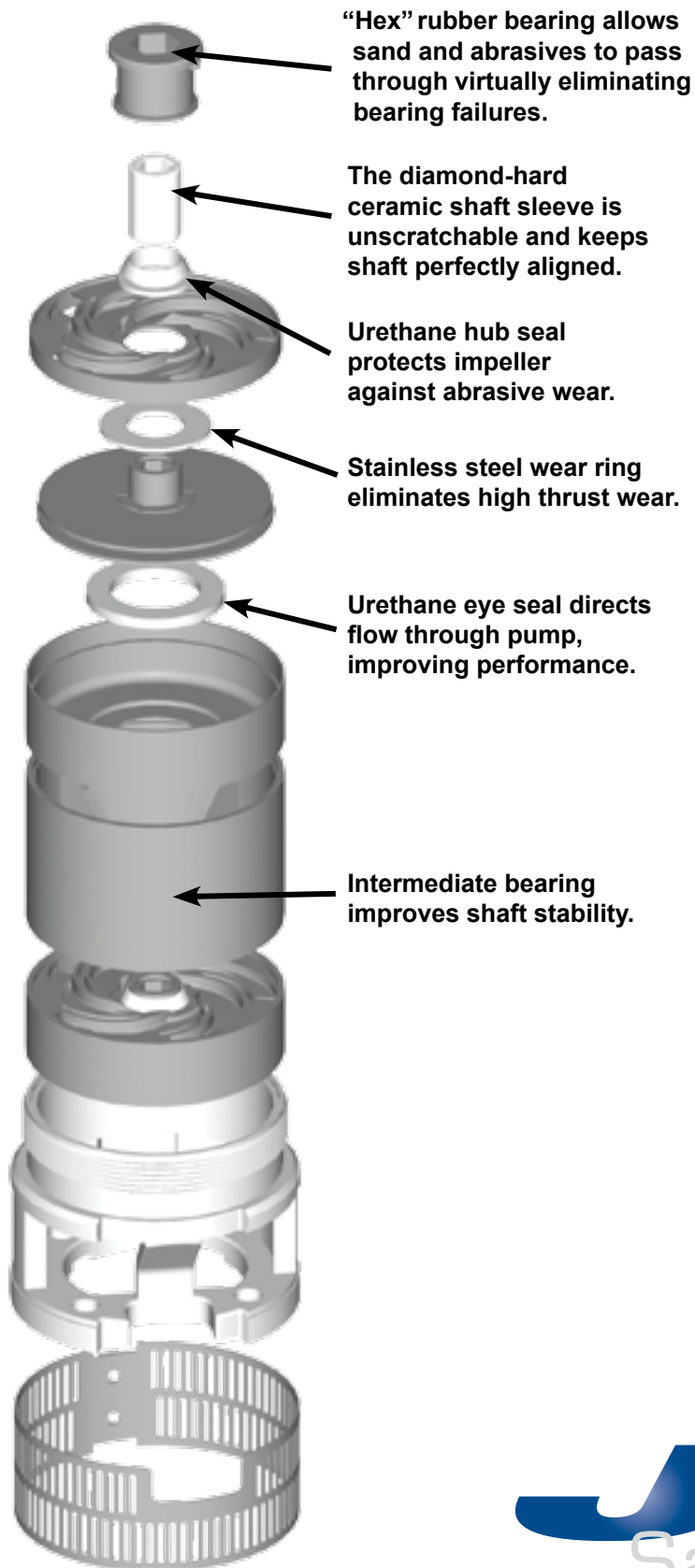
## **4" SandHandler High-Capacity**

The J-Class SandHandler High Capacity pump is engineered for commercial, irrigation and residential use. Design advancements reduce efficiency losses caused by internal pump leakage and abrasives.

### **Features:**

- 4 performance ranges: 100, 150, 200 & 270 LPM.
- Stainless steel discharge head and motor bracket.
- High flow impellers and stages are glass-filled Noryl for maximum efficiency.
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear.
- Intermediate bearing for increased shaft stability.
- Floating eye and hub seals improve performance and efficiency.
- Stainless steel hex pump shaft, shell and shaft coupling.
- High capacity upthrust assembly for protection during start-up and operation (150, 200 & 270 LPM models).
- Powered by Franklin Electric's corrosion-resistant 4" submersible motor.
- 2" BSPP discharge threads.
- External check valve must be ordered separately.

# 4" Submersible Pumps



**J-CLASS**  
SandHandler

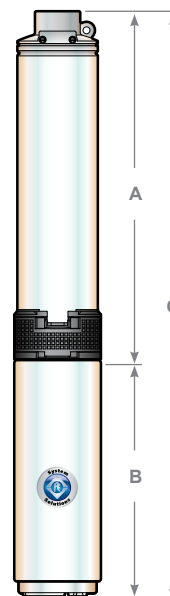
# 50 Hz High-Capacity

## 100 LPM High-Capacity

### 100 LPM Hi-Cap Ordering Information

Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
100	3/4	0.55	6	100JS07S4-PEXB	92526306
	1	0.75	8	100JS1S4-PEXB	92526308
	1.5	1.1	10	100JS15S4-PEXB	92526310
	2	1.5	14	100JS2S4-PEXB	92526314
	3	2.2	22	100JS3S4-PEXB	92526322
	5	3.7	34	100JS5S4-PEXB	92526334
	7.5	5.5	42	100JS7S4-PEXB	92526342



## 70 LPM Tri-Seal

### 100 LPM Hi-Cap Dimensional Data

Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
100	3/4	0.55	382	298	678	382	298	678	4
	1	0.75	446	298	742	446	384	828	5
	1.5	1.1	510	346	853	510	384	892	5
	2	1.5	638	488	1123	638	564	1199	5
	3	2.2	893	564	1455	893	716	1607	6
	5	3.7	1325	589	1914	1325	741	2066	12
	7.5	5.5	1581	741	2322	N/A	N/A	N/A	14

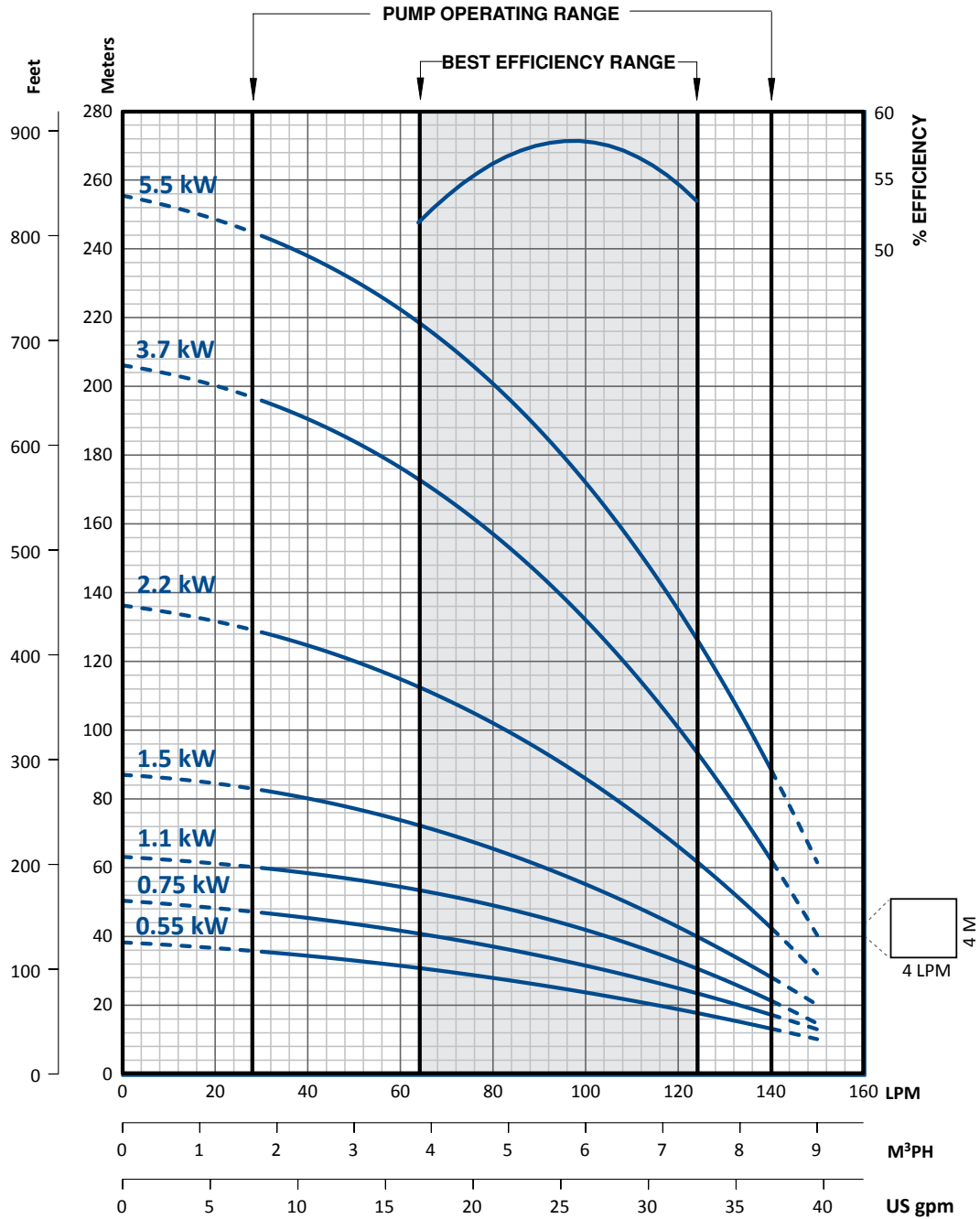
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 100 LPM High-Capacity Performance Curves

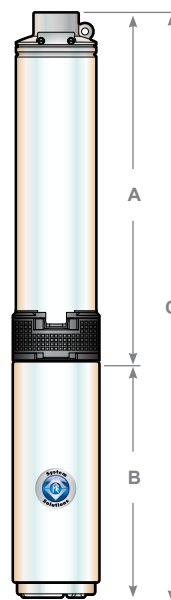


## 150 LPM High-Capacity

### 150 LPM Hi-Cap Ordering Information

Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
150	1.5	1.1	7	150JS15S4-PEXB	92526407
	2	1.5	9	150JS2S4-PEXB	92526409
	3	2.2	14	150JS3S4-PEXB	92526414
	5	3.7	26	150JS5S4-PEXB	92526426
	7.5	5.5	31	150JS7S4-PEXB	92526431



### 150 LPM Hi-Cap Dimensional Data

Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
150	1.5	1.1	593	298	891	593	384	977	5
	2	1.5	707	346	1053	707	384	1091	5
	3	2.2	993	513	1506	993	589	1582	6
	5	3.7	1679	589	2268	1679	741	2420	8
	7.5	5.5	1989	742	2731	N/A	N/A	N/A	17

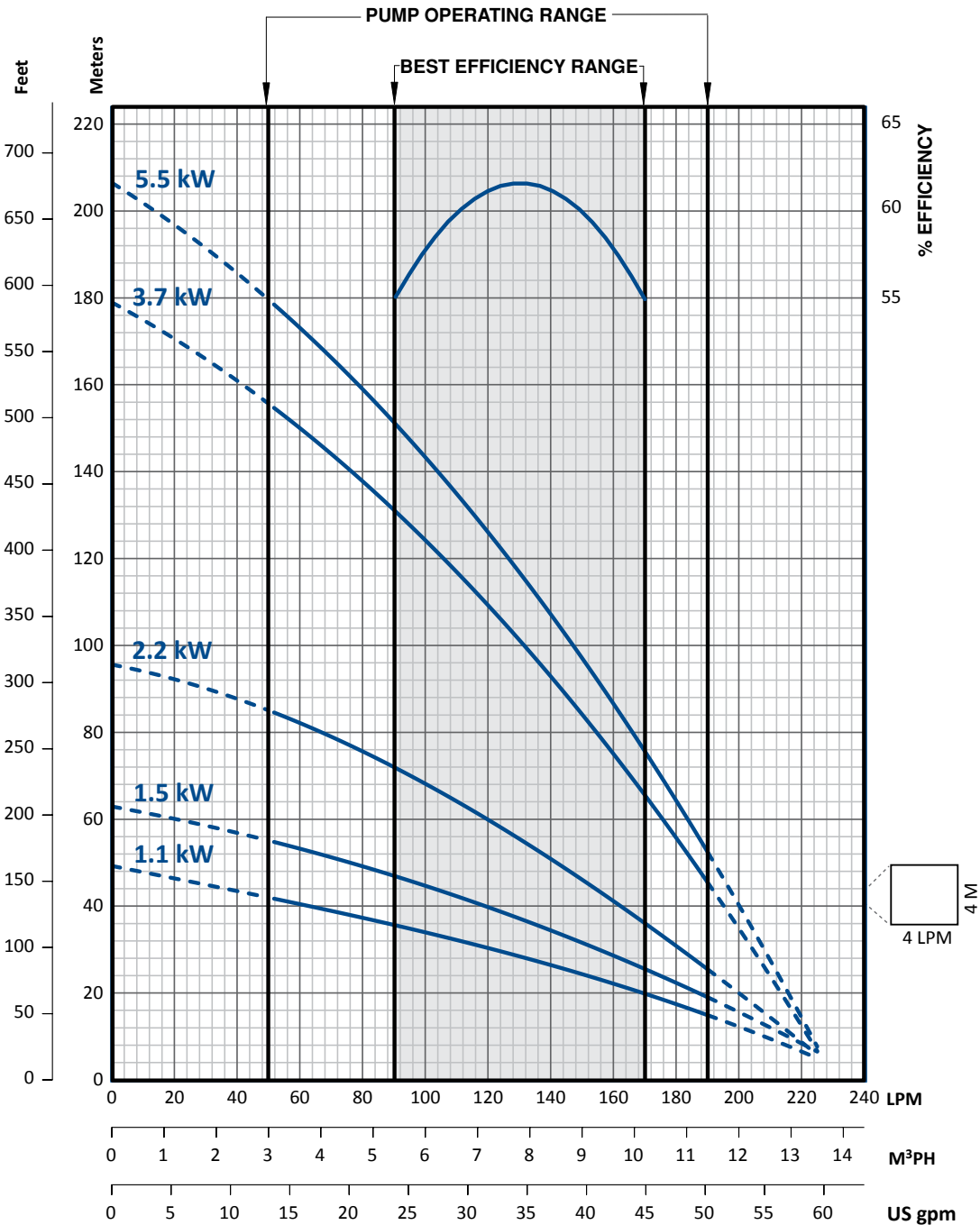
Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 150 LPM High-Capacity Performance Curves

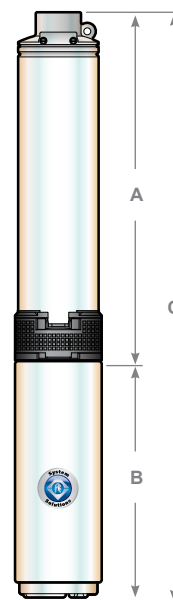


## 200 LPM High-Capacity

### 200 LPM Hi-Cap Ordering Information

Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
200	2	1.5	6	200JS2S4-PEXB	92526606
	3	2.2	9	200JS3S4-PEXB	92526609
	5	3.7	17	200JS5S4-PEXB	92526617
	7.5	5.5	26	200JS7S4-PEXB	92526626



### 200 LPM Hi-Cap Dimensional Data

Stainless Steel

LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
200	2	1.5	536	346	882	536	384	920	7
	3	2.2	707	488	1195	707	564	1271	8
	5	3.7	1164	589	1753	1164	741	1905	10
	7.5	5.5	1679	741	2496	NA	NA	NA	11

Note: P.E. – Pump end only

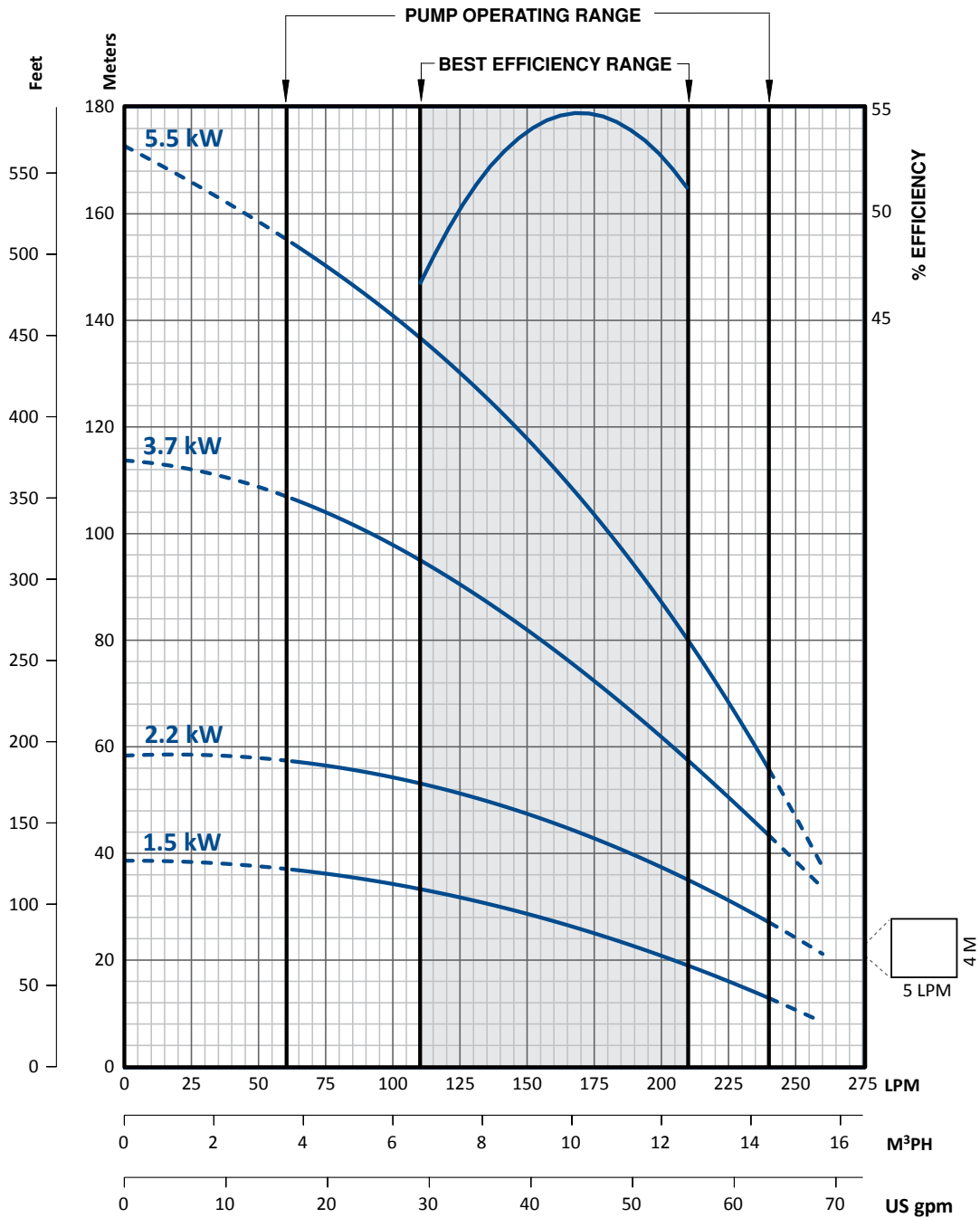
Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.

Maximum diameter with cable guard is 99.1 mm



# 4" Submersible Pumps

## 200 LPM High-Capacity Performance Curves

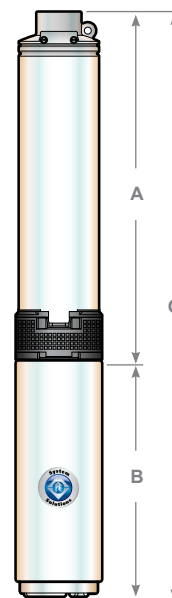


## 270 LPM High-Capacity

### 270 LPM Hi-Cap Ordering Information

#### Stainless Steel

LPM	HP	kW	Stages	Model Description	Order No.
270	1.5	1.1	5	270JS15S4-PEXB	92526905
	2	1.5	7	270JS2S4-PEXB	92526907
	3	2.2	11	270JS3S4-PEXB	92526911
	5	3.7	19	270JS5S4-PEXB	92526919
	7.5	5.5	24	270JS7S4-PEXB	92526924



### 270 LPM Hi-Cap Dimensional Data

#### Stainless Steel

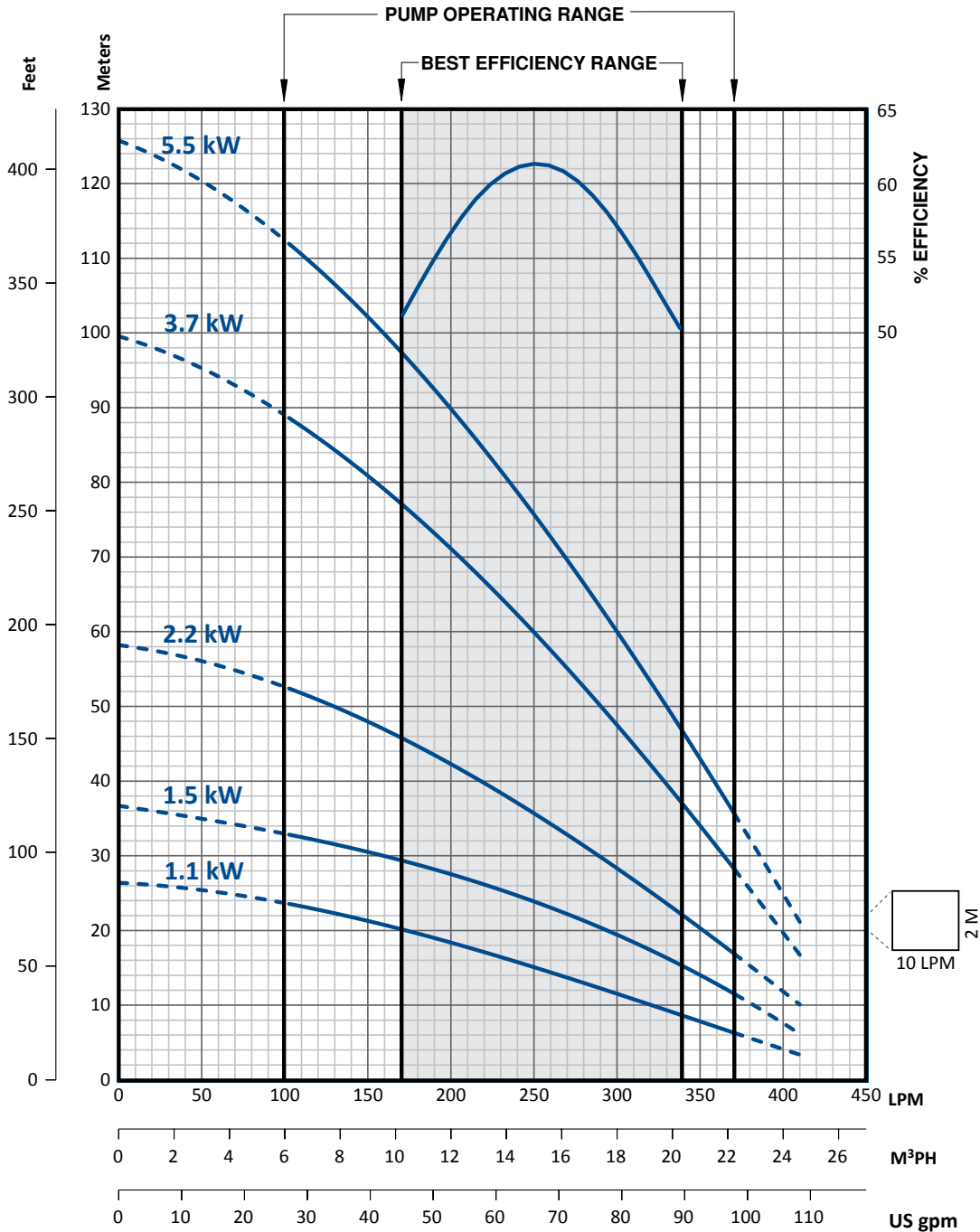
LPM	HP	kW	3-Phase			3-Wire			P.E. Weight (kg)
			A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)	
270	1.5	1.1	575	298	873	575	384	959	5
	2	1.5	728	346	1074	728	384	1112	5
	3	2.2	1033	513	1546	1033	589	1622	6
	5	3.7	1641	589	2230	1641	741	2382	10
	7.5	5.5	2012	741	2753	NA	NA	NA	14

Note: P.E. – Pump end only

Product dimensions assume the FPS pump end is assembled to a 4" Franklin Electric submersible motor.  
Maximum diameter with cable guard is 99.1 mm

# 4" Submersible Pumps

## 270 LPM High-Capacity Performance Curves



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