

# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS

### FEATURES

- Four performance ranges: 35, 45, 60, and 90 gpm
- 2" NPT discharge, with and without an internal stainless steel wafer-style check valve
- Stainless steel discharge head and motor bracket
- High flow hydraulic staging allows for maximum pump output, exceeds all energy efficiency standards, and provides increased product longevity
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
- Intermediate bearing for increased shaft stability when pump lengths dictate on high horse, high performance constructions
- Impeller eye and hub seals for improved performance and efficiency
- Stainless steel hex pump shaft, shell, and shaft coupling
- High capacity upthrust assembly for protection during start-up and operation (35, 45, 60, and 90 gpm models)
- Designed for optimal performance when powered by Franklin's corrosion-resistant 4" submersible motors

### MODEL NO. EXPLANATION

Example: 60FH10S4-PE

- 60 = gpm
- FH = Franklin Electric Brand
- 10 = 10 hp
- S = Stainless
- 4 = 4" Submersible
- PE = Pump End



CSA CERTIFIED  
PUMP END ONLY



NSF/ANSI 61  
Drinking Water



**Franklin Electric**

# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### ORDER INFORMATION

### 35-90 GPM PUMP ENDS

| 1 - 10 HP 4" High Capacity Pump Ends |     |        |               |            |                                 |             |                          |                               |           |      |      |      |    |
|--------------------------------------|-----|--------|---------------|------------|---------------------------------|-------------|--------------------------|-------------------------------|-----------|------|------|------|----|
| GPM                                  | HP  | Stages | Model         | Order No.  | Check Valve in 2" NPT Discharge | Basic Model | PEI <sub>CL</sub> Number | Dimensions (in) Pump End Only | Wt. (lbs) |      |      |      |    |
| 35                                   | 1   | 5      | 35FHIS4-PE    | 93653505   | No                              | 35S4        | 0.83                     | 11.9                          | 8         |      |      |      |    |
|                                      | 1.5 | 7      | 35FHIS4-PE    | 93653507   |                                 |             |                          | 14.5                          | 9         |      |      |      |    |
|                                      | 2   | 9      | 35FH2S4-PE    | 93653509   |                                 |             |                          | 17                            | 10        |      |      |      |    |
|                                      | 3   | 12     | 35FH3S4-PE    | 93653512   |                                 |             |                          | 20.9                          | 11        |      |      |      |    |
|                                      | 5   | 20     | 35FH5S4-PE    | 93653520   |                                 |             |                          | 22.2                          | 16        |      |      |      |    |
|                                      | 7.5 | 29     | 35FH7S4-PE    | 93653529   |                                 |             |                          | 44.5                          | 23        |      |      |      |    |
|                                      | 10  | 38     | 35FH10S4-PE   | 93653538   | Yes                             |             |                          | 58.5                          | 29        |      |      |      |    |
|                                      | 1   | 5      | 35FHIS4-PECV  | 93663505   |                                 |             |                          | 14.1                          | 9         |      |      |      |    |
|                                      | 1.5 | 7      | 35FHIS4-PECV  | 93663507   |                                 |             |                          | 16.7                          | 10        |      |      |      |    |
|                                      | 2   | 9      | 35FH2S4-PECV  | 93663509   |                                 |             |                          | 19.2                          | 11        |      |      |      |    |
|                                      | 3   | 12     | 35FH3S4-PECV  | 93663512   |                                 |             |                          | 23                            | 12        |      |      |      |    |
|                                      | 5   | 20     | 35FH5S4-PECV  | 93663520   |                                 |             |                          | 35.5                          | 17        |      |      |      |    |
|                                      | 7.5 | 29     | 35FH7S4-PECV  | 93663529   |                                 |             |                          | 47                            | 24        |      |      |      |    |
|                                      | 10  | 38     | 35FH10S4-PECV | 93663538   |                                 |             |                          | 60.7                          | 30        |      |      |      |    |
| 45                                   | 1.5 | 5      | 45FHIS4-PE    | 93654505   | No                              | 45S4        | 0.89                     | 14.2                          | 8         |      |      |      |    |
|                                      | 2   | 7      | 45FH2S4-PE    | 93654507   |                                 |             |                          | 17.6                          | 9         |      |      |      |    |
|                                      | 3   | 10     | 45FH3S4-PE    | 93654510   |                                 |             |                          | 22.8                          | 10        |      |      |      |    |
|                                      | 5   | 16     | 45FH5S4-PE    | 93654516   |                                 |             |                          | 35.3                          | 14        |      |      |      |    |
|                                      | 7.5 | 23     | 45FH7S4-PE    | 93654523   |                                 |             |                          | 47.4                          | 22        |      |      |      |    |
|                                      | 10  | 31     | 45FH10S4-PE   | 93654531   |                                 |             |                          | 63.3                          | 28        |      |      |      |    |
|                                      | 1.5 | 5      | 45FHIS4-PECV  | 93664505   | Yes                             |             |                          | 16.3                          | 9         |      |      |      |    |
|                                      | 2   | 7      | 45FH2S4-PECV  | 93664507   |                                 |             |                          | 19.8                          | 10        |      |      |      |    |
|                                      | 3   | 10     | 45FH3S4-PECV  | 93664510   |                                 |             |                          | 25                            | 11        |      |      |      |    |
|                                      | 5   | 16     | 45FH5S4-PECV  | 93664516   |                                 |             |                          | 37.4                          | 15        |      |      |      |    |
|                                      | 7.5 | 23     | 45FH7S4-PECV  | 93664523   |                                 |             |                          | 49.5                          | 23        |      |      |      |    |
|                                      | 10  | 31     | 45FH10S4-PECV | 93664531   |                                 |             |                          | 65.5                          | 29        |      |      |      |    |
|                                      | 60  | 2      | 7             | 60FH2S4-PE |                                 |             |                          | 93656007                      | No        | 60S4 | 0.94 | 23.5 | 10 |
|                                      |     | 3      | 10            | 60FH3S4-PE |                                 |             |                          | 93656010                      |           |      |      | 33.3 | 12 |
| 5                                    |     | 16     | 60FH5S4-PE    | 93656016   | 48.8                            | 18          |                          |                               |           |      |      |      |    |
| 7.5                                  |     | 23     | 60FH7S4-PE    | 93656023   | 68.8                            | 25          |                          |                               |           |      |      |      |    |
| 10                                   |     | 30     | 60FH10S4-PE   | 93656030   | 86.9                            | 31          |                          |                               |           |      |      |      |    |
| 2                                    |     | 7      | 60FH2S4-PECV  | 93666007   | 25.7                            | 11          |                          |                               |           |      |      |      |    |
| 3                                    |     | 10     | 60FH3S4-PECV  | 93666010   | Yes                             | 35.4        | 13                       |                               |           |      |      |      |    |
| 5                                    |     | 16     | 60FH5S4-PECV  | 93666016   |                                 | 50.9        | 19                       |                               |           |      |      |      |    |
| 7.5                                  |     | 23     | 60FH7S4-PECV  | 93666023   |                                 | 71          | 26                       |                               |           |      |      |      |    |
| 10                                   |     | 30     | 60FH10S4-PECV | 93666030   |                                 | 89          | 32                       |                               |           |      |      |      |    |
| 90                                   |     | 2      | 6             | 90FH2S4-PE |                                 | 93659006    | No                       | 90S4                          | 0.92      |      |      | 23.4 | 10 |
|                                      |     | 3      | 8             | 90FH3S4-PE |                                 | 93659008    |                          |                               |           |      |      | 31.4 | 12 |
|                                      |     | 5      | 13            | 90FH5S4-PE |                                 | 93659013    |                          |                               |           |      |      | 46.3 | 17 |
|                                      |     | 7.5    | 19            | 90FH7S4-PE |                                 | 93659019    |                          |                               |           |      |      | 66.2 | 23 |
|                                      | 10  | 25     | 90FH10S4-PE   | 93659025   | Yes                             | 84.2        | 29                       |                               |           |      |      |      |    |
|                                      | 2   | 6      | 90FH2S4-PECV  | 93669006   |                                 | 25.6        | 11                       |                               |           |      |      |      |    |
|                                      | 3   | 8      | 90FH3S4-PECV  | 93669008   |                                 | 33.6        | 13                       |                               |           |      |      |      |    |
|                                      | 5   | 13     | 90FH5S4-PECV  | 93669013   |                                 | 48.5        | 18                       |                               |           |      |      |      |    |
|                                      | 7.5 | 19     | 90FH7S4-PECV  | 93669019   |                                 | 68.4        | 24                       |                               |           |      |      |      |    |
|                                      | 10  | 25     | 90FH10S4-PECV | 93669025   |                                 | 86.3        | 30                       |                               |           |      |      |      |    |

NOTES: Maximum diameter across cable guard is 3.90" on all models.

### ORDER INFORMATION

### 35-90 GPM PUMP & MOTOR

| 1 - 1.5 HP Single-Phase Units (2-Wire PMA) |     |        |       |                  |           |                                 |             |                          |           |
|--------------------------------------------|-----|--------|-------|------------------|-----------|---------------------------------|-------------|--------------------------|-----------|
| GPM                                        | HP  | Stages | Volts | Model            | Order No. | Check Valve in 2" NPT Discharge | Basic Model | PEI <sub>CL</sub> Number | Wt. (lbs) |
| 35                                         | 1   | 5      | 230   | 35FHIS4-2W230    | 93673505  | No                              | 35S4        | 0.83                     | 32        |
|                                            | 1.5 | 7      |       | 35FHIS4-2W230    | 93673507  |                                 |             |                          | 40        |
|                                            | 1   | 5      |       | 35FHIS4-2W230-CV | 93693505  | Yes                             |             |                          | 33        |
|                                            | 1.5 | 7      |       | 35FHIS4-2W230-CV | 93693507  |                                 |             |                          | 41        |
| 45                                         | 1.5 | 5      | 230   | 45FHIS4-2W230    | 93674505  | No                              | 45S4        | 0.89                     | 40        |
|                                            | 1.5 | 5      |       | 45FHIS4-2W230-CV | 93694505  | Yes                             |             |                          | 41        |
| 1 - 1.5 HP Single-Phase Units (3-Wire PMA) |     |        |       |                  |           |                                 |             |                          |           |
| 35                                         | 1   | 5      | 230   | 35FHIS4-3W230    | 93703505  | No                              | 35S4        | 0.83                     | 32        |
|                                            | 1.5 | 7      |       | 35FHIS4-3W230    | 93703507  |                                 |             |                          | 40        |
|                                            | 1   | 5      |       | 35FHIS4-3W230-CV | 93713505  | Yes                             |             |                          | 33        |
|                                            | 1.5 | 7      |       | 35FHIS4-3W230-CV | 93713507  |                                 |             |                          | 41        |
| 45                                         | 1.5 | 5      | 230   | 45FHIS4-3W230    | 93704505  | No                              | 45S4        | 0.89                     | 40        |
|                                            | 1.5 | 5      |       | 45FHIS4-3W230-CV | 93714505  | Yes                             |             |                          | 41        |

# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### MODEL CROSS REFERENCE

### DOE COMPLIANT VS ORIGINAL FPS PUMP ENDS

| 1 - 10 HP 4" High Capacity Pump Ends |                                 |                                                     |           |                                                                 |           |
|--------------------------------------|---------------------------------|-----------------------------------------------------|-----------|-----------------------------------------------------------------|-----------|
| GPM                                  | Check Valve in 2" NPT Discharge | Tri-Seal High Capacity, DOE PEL <sub>CL</sub> Rated |           | Original FPS (Discontinued, replaced by Tri-Seal High Capacity) |           |
|                                      |                                 | Model                                               | Order No. | Model                                                           | Order No. |
| 35                                   | No                              | 35FH1S4-PE                                          | 93653505  | 35FA1S4-PE                                                      | 93613506  |
|                                      |                                 | 35FH1S4-PE                                          | 93653507  | 35FA1S4-PE                                                      | 93613508  |
|                                      |                                 | 35FH2S4-PE                                          | 93653509  | 35FA2S4-PE                                                      | 93613510  |
|                                      |                                 | 35FH3S4-PE                                          | 93653512  | 35FA3S4-PE                                                      | 93613514  |
|                                      |                                 | 35FH5S4-PE                                          | 93653520  | 35FA5S4-PE                                                      | 93613522  |
|                                      |                                 | 35FH7S4-PE                                          | 93653529  | 35FA7S4-PE                                                      | 93613534  |
|                                      |                                 | 35FH10S4-PE                                         | 93653538  | 35FA10S4-PE                                                     | 93613542  |
|                                      | Yes                             | 35FH1S4-PECV                                        | 93663505  | 35FA1S4-PE W/ Check Valve                                       | 90653506  |
|                                      |                                 | 35FH1S4-PECV                                        | 93663507  | 35FA1S4-PE W/ Check Valve                                       | 90653508  |
|                                      |                                 | 35FH2S4-PECV                                        | 93663509  | 35FA2S4-PE W/ Check Valve                                       | 90653510  |
|                                      |                                 | 35FH3S4-PECV                                        | 93663512  | 35FA3S4-PE W/ Check Valve                                       | 90653514  |
|                                      |                                 | 35FH5S4-PECV                                        | 93663520  | 35FA5S4-PE W/ Check Valve                                       | 90653522  |
|                                      |                                 | 35FH7S4-PECV                                        | 93663529  | 35FA7S4-PE W/ Check Valve                                       | 90653534  |
|                                      |                                 | 35FH10S4-PECV                                       | 93663538  | 35FA10S4-PE W/ Check Valve                                      | 90653542  |
| 45                                   | No                              | 45FH1S4-PE                                          | 93654505  | 45FA1S4-PE                                                      | 93614506  |
|                                      |                                 | 45FH2S4-PE                                          | 93654507  | 45FA2S4-PE                                                      | 93614508  |
|                                      |                                 | 45FH3S4-PE                                          | 93654510  | 45FA3S4-PE                                                      | 93614511  |
|                                      |                                 | 45FH5S4-PE                                          | 93654516  | 45FA5S4-PE                                                      | 93614518  |
|                                      |                                 | 45FH7S4-PE                                          | 93654523  | 45FA7S4-PE                                                      | 93614526  |
|                                      |                                 | 45FH10S4-PE                                         | 93654531  | 45FA10S4-PE                                                     | 93614531  |
|                                      |                                 | 45FH1S4-PECV                                        | 93664505  | 45FA1S4-PE W/ Check Valve                                       | 90654506  |
|                                      | Yes                             | 45FH2S4-PECV                                        | 93664507  | 45FA2S4-PE W/ Check Valve                                       | 90654508  |
|                                      |                                 | 45FH3S4-PECV                                        | 93664510  | 45FA3S4-PE W/ Check Valve                                       | 90654511  |
|                                      |                                 | 45FH5S4-PECV                                        | 93664516  | 45FA5S4-PE W/ Check Valve                                       | 90654518  |
|                                      |                                 | 45FH7S4-PECV                                        | 93664523  | 45FA7S4-PE W/ Check Valve                                       | 90654526  |
|                                      |                                 | 45FH10S4-PECV                                       | 93664531  | 45FA10S4-PE W/ Check Valve                                      | 90654531  |
| 60                                   | No                              | 60FH2S4-PE                                          | 93656007  | 60FA2S4-PE                                                      | 93616006  |
|                                      |                                 | 60FH3S4-PE                                          | 93656010  | 60FA3S4-PE                                                      | 93616008  |
|                                      |                                 | 60FH5S4-PE                                          | 93656016  | 60FA5S4-PE                                                      | 93616013  |
|                                      |                                 | 60FH7S4-PE                                          | 93656023  | 60FA7S4-PE                                                      | 93616017  |
|                                      |                                 | 60FH10S4-PE                                         | 93656030  | 60FA10S4-PE                                                     | 93616024  |
|                                      |                                 | 60FH2S4-PECV                                        | 93666007  | 60FA2S4-PE W/ Check Valve                                       | 90656006  |
|                                      |                                 | 60FH3S4-PECV                                        | 93666010  | 60FA3S4-PE W/ Check Valve                                       | 90656008  |
|                                      | Yes                             | 60FH5S4-PECV                                        | 93666016  | 60FA5S4-PE W/ Check Valve                                       | 90656013  |
|                                      |                                 | 60FH7S4-PECV                                        | 93666023  | 60FA7S4-PE W/ Check Valve                                       | 90656017  |
|                                      |                                 | 60FH10S4-PECV                                       | 93666030  | 60FA10S4-PE W/ Check Valve                                      | 90656024  |
| 90                                   | No                              | 90FH2S4-PE                                          | 93659006  | 90FA2S4-PE                                                      | 93619005  |
|                                      |                                 | 90FH3S4-PE                                          | 93659008  | 90FA3S4-PE                                                      | 93619007  |
|                                      |                                 | 90FH5S4-PE                                          | 93659013  | 90FA5S4-PE                                                      | 93619012  |
|                                      |                                 | 90FH7S4-PE                                          | 93659019  | 90FA7S4-PE                                                      | 93619019  |
|                                      |                                 | 90FH10S4-PE                                         | 93659025  | 90FA10S4-PE                                                     | 93619020  |
|                                      |                                 | 90FH2S4-PECV                                        | 93669006  | 90FA2S4-PE W/ Check Valve                                       | 90659005  |
|                                      |                                 | 90FH3S4-PECV                                        | 93669008  | 90FA3S4-PE W/ Check Valve                                       | 90659007  |
|                                      | Yes                             | 90FH5S4-PECV                                        | 93669013  | 90FA5S4-PE W/ Check Valve                                       | 90659012  |
|                                      |                                 | 90FH7S4-PECV                                        | 93669019  | 90FA7S4-PE W/ Check Valve                                       | 90659019  |
|                                      |                                 | 90FH10S4-PECV                                       | 93669025  | 90FA10S4-PE W/ Check Valve                                      | 90659020  |

### MODEL CROSS REFERENCE

### DOE COMPLIANT VS ORIGINAL FPS PUMP & MOTOR

| 1 - 1.5 HP Single-Phase Units (2-Wire PMA) |                                 |                                                     |           |                                                                 |           |
|--------------------------------------------|---------------------------------|-----------------------------------------------------|-----------|-----------------------------------------------------------------|-----------|
| GPM                                        | Check Valve in 2" NPT Discharge | Tri-Seal High Capacity, DOE PEL <sub>CL</sub> Rated |           | Original FPS (Discontinued, replaced by Tri-Seal High Capacity) |           |
|                                            |                                 | Model                                               | Order No. | Model                                                           | Order No. |
| 35                                         | No                              | 35FH1S4-2W230                                       | 93673505  | 35FA1S4-2W230                                                   | 93613606  |
|                                            |                                 | 35FH1S4-2W230                                       | 93673507  | 35FA1S4-2W230                                                   | 93613608  |
|                                            | Yes                             | 35FH1S4-2W230-CV                                    | 93693505  | 35FA1S4-2W230 W/ CV                                             | 90653606  |
|                                            |                                 | 35FH1S4-2W230-CV                                    | 93693507  | 35FA1S4-2W230 W/ CV                                             | 90653608  |
| 45                                         | No                              | 45FH1S4-2W230                                       | 93674505  | 45FA1S4-2W230                                                   | 93614606  |
|                                            | Yes                             | 45FH1S4-2W230-CV                                    | 93694505  | 45FA1S4-2W230 W/ CV                                             | 90654606  |
| 1 - 1.5 HP Single-Phase Units (3-Wire PMA) |                                 |                                                     |           |                                                                 |           |
| 35                                         | No                              | 35FH1S4-3W230                                       | 93703505  | 35FA1S4-3W230                                                   | 93613706  |
|                                            |                                 | 35FH1S4-3W230                                       | 93703507  | 35FA1S4-3W230                                                   | 93613708  |
|                                            | Yes                             | 35FH1S4-3W230-CV                                    | 93713505  | 35FA1S4-3W230 W/ CV                                             | 90653706  |
|                                            |                                 | 35FH1S4-3W230-CV                                    | 93713507  | 35FA1S4-3W230 W/ CV                                             | 90653708  |
| 45                                         | No                              | 45FH1S4-3W230                                       | 93704505  | 45FA1S4-3W230                                                   | 93614706  |
|                                            | Yes                             | 45FH1S4-3W230-CV                                    | 93714505  | 45FA1S4-3W230 W/ CV                                             | 90654706  |

# SUBMERSIBLE PUMPS

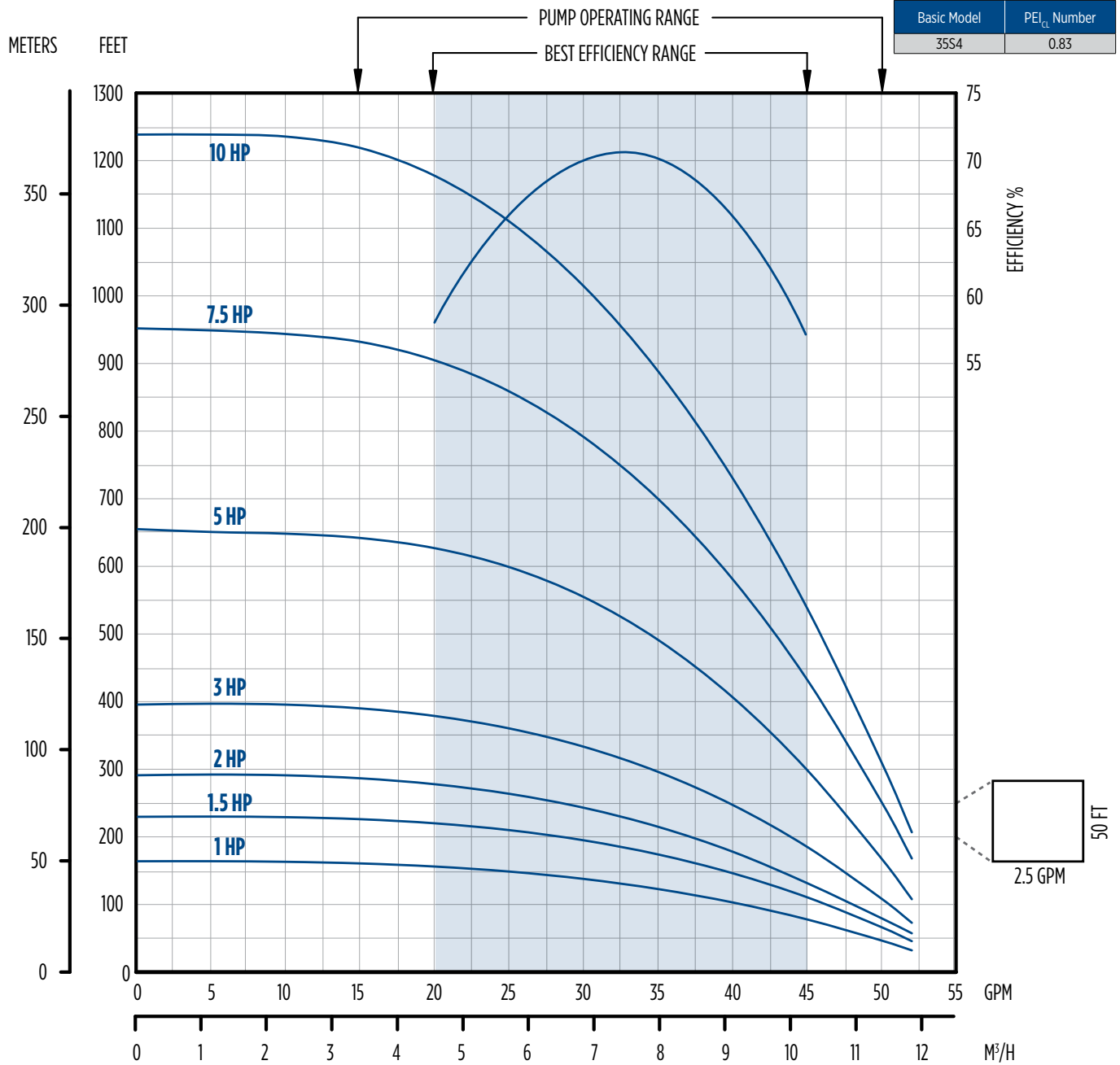
## 4" TRI-SEAL HIGH CAPACITY PUMPS



Franklin Electric

### PERFORMANCE

35 GPM



# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### PERFORMANCE

35 GPM

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|--------------|-----|------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|              |     | 0                                                                                              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | Shut-Off (ft) |
| 1            | 0   |                                                                                                |     |     |     | 44  | 40  | 35  | 28  |     |     |     |     |     |     |     |     |     |     | 161           |
|              | 10  |                                                                                                |     |     | 44  | 39  | 34  | 27  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     | 43  | 39  | 33  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                | 42  | 38  | 32  | 23  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 42                                                                                             | 37  | 31  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 36                                                                                             | 30  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 29                                                                                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 70  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 80  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 70                                                                                             | 61  | 52  | 44  | 35  | 26  | 18  | 9   |     |     |     |     |     |     |     |     |     |     |               |
| 1.5          | 0   |                                                                                                |     |     |     | 46  | 43  | 40  | 37  | 33  | 28  |     |     |     |     |     |     |     | 230 |               |
|              | 10  |                                                                                                |     |     | 45  | 43  | 40  | 36  | 32  | 26  |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     | 45  | 42  | 39  | 35  | 31  | 24  |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                | 44  | 42  | 39  | 35  | 30  | 23  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                | 44  | 41  | 38  | 34  | 29  | 21  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 44                                                                                             | 41  | 38  | 34  | 29  | 21  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 41                                                                                             | 37  | 33  | 28  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 70  | 37                                                                                             | 33  | 27  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 80  | 32                                                                                             | 26  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 100                                                                                            | 91  | 82  | 74  | 65  | 56  | 48  | 39  | 30  | 22  | 13  |     |     |     |     |     |     |     |               |
| 2            | 0   |                                                                                                |     |     |     |     |     | 44  | 42  | 40  | 37  | 30  |     |     |     |     |     |     | 300 |               |
|              | 10  |                                                                                                |     |     |     |     | 44  | 42  | 39  | 36  | 33  | 25  |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     | 46  | 43  | 41  | 39  | 36  | 33  | 29  |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     | 45  | 43  | 41  | 38  | 35  | 32  | 28  | 23  |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     | 45  | 43  | 40  | 38  | 35  | 32  | 27  | 22  |     |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                | 45  | 42  | 40  | 37  | 34  | 31  | 27  | 20  |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 44                                                                                             | 42  | 40  | 37  | 34  | 30  | 26  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 70  | 42                                                                                             | 39  | 37  | 33  | 30  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 80  | 39                                                                                             | 36  | 33  | 29  | 24  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 130                                                                                            | 121 | 113 | 104 | 95  | 87  | 78  | 69  | 61  | 52  | 43  | 26  |     |     |     |     |     |     |               |
| 3            | 0   |                                                                                                |     |     |     |     |     |     | 45  | 43  | 40  | 37  | 30  |     |     |     |     |     | 400 |               |
|              | 10  |                                                                                                |     |     |     |     |     | 45  | 43  | 42  | 38  | 34  | 28  |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     | 45  | 43  | 42  | 40  | 36  | 31  | 23  |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     | 44  | 43  | 41  | 40  | 38  | 33  | 27  |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     |     | 44  | 43  | 41  | 39  | 37  | 35  | 30  |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     | 45  | 44  | 42  | 41  | 39  | 37  | 35  | 32  | 26  |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                | 45  | 44  | 42  | 41  | 39  | 37  | 34  | 32  | 29  |     |     |     |     |     |     |     |     |               |
|              | 70  |                                                                                                | 45  | 44  | 42  | 40  | 38  | 36  | 34  | 31  | 28  | 24  |     |     |     |     |     |     |     |               |
|              | 80  | 45                                                                                             | 43  | 42  | 40  | 38  | 36  | 34  | 31  | 28  | 23  |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 173                                                                                            | 165 | 156 | 147 | 139 | 130 | 121 | 113 | 104 | 95  | 87  | 69  | 52  | 35  | 17  |     |     |     |               |

| HP           | PSI | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 5            | 0   |     |     |     |     |     |     |     | 44  | 42  | 40  | 38  | 36  | 34  | 30  | 24  |     |     |     |     | 650           |
|              | 10  |     |     |     |     |     |     | 45  | 43  | 41  | 39  | 37  | 34  | 32  | 28  | 20  |     |     |     |     |               |
|              | 20  |     |     |     |     |     |     | 44  | 42  | 40  | 38  | 35  | 32  | 30  | 25  |     |     |     |     |     |               |
|              | 30  |     |     |     |     |     | 45  | 43  | 41  | 39  | 36  | 33  | 30  | 28  | 21  |     |     |     |     |     |               |
|              | 40  |     |     |     |     | 45  | 44  | 42  | 40  | 37  | 35  | 32  | 28  | 25  |     |     |     |     |     |     |               |
|              | 50  |     |     |     | 45  | 44  | 42  | 41  | 38  | 36  | 33  | 29  | 25  | 22  |     |     |     |     |     |     |               |
|              | 60  |     |     | 45  | 44  | 43  | 41  | 39  | 37  | 34  | 31  | 27  | 21  |     |     |     |     |     |     |     |               |
|              | 70  |     | 45  | 44  | 43  | 42  | 40  | 38  | 35  | 32  | 29  | 24  |     |     |     |     |     |     |     |     |               |
|              | 80  | 45  | 44  | 43  | 42  | 41  | 39  | 37  | 34  | 30  | 26  |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 229 | 221 | 212 | 203 | 195 | 177 | 160 | 143 | 126 | 108 | 91  | 74  | 65  | 43  | 22  |     |     |     |     |               |

| HP           | PSI | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|---------------|
| 7.5          | 0   |     |     |     |     |     | 45  | 43  | 43  | 41  | 39  | 37  | 35  | 32  | 29  | 25  | 20  |     |      |      |      |      | 950           |
|              | 10  |     |     |     |     |     | 44  | 43  | 42  | 40  | 38  | 36  | 34  | 31  | 28  | 23  |     |     |      |      |      |      |               |
|              | 20  |     |     |     |     | 45  | 43  | 42  | 41  | 39  | 37  | 35  | 33  | 30  | 26  | 21  |     |     |      |      |      |      |               |
|              | 30  |     |     |     | 45  | 44  | 43  | 41  | 40  | 38  | 36  | 34  | 31  | 28  | 24  |     |     |     |      |      |      |      |               |
|              | 40  |     |     | 46  | 44  | 43  | 42  | 40  | 40  | 38  | 35  | 33  | 30  | 26  | 21  |     |     |     |      |      |      |      |               |
|              | 50  |     |     | 45  | 44  | 42  | 41  | 39  | 39  | 37  | 34  | 31  | 28  | 24  |     |     |     |     |      |      |      |      |               |
|              | 60  |     | 45  | 44  | 43  | 42  | 40  | 39  | 38  | 35  | 33  | 30  | 26  | 22  |     |     |     |     |      |      |      |      |               |
|              | 70  |     | 45  | 43  | 42  | 41  | 39  | 38  | 37  | 34  | 32  | 28  | 24  |     |     |     |     |     |      |      |      |      |               |
|              | 80  | 45  | 44  | 43  | 41  | 40  | 38  | 37  | 36  | 33  | 30  | 27  | 22  |     |     |     |     |     |      |      |      |      |               |
| Shut-off PSI |     | 307 | 290 | 273 | 255 | 238 | 221 | 203 | 195 | 173 | 152 | 130 | 108 | 87  | 65  | 43  | 22  |     |      |      |      |      |               |
| 10           | 0   |     |     |     |     |     |     |     |     | 45  | 43  | 42  | 41  | 39  | 38  | 36  | 35  | 33  | 31   | 28   | 25   | 22   | 1250          |
|              | 10  |     |     |     |     |     |     |     |     | 45  | 44  | 43  | 42  | 40  | 39  | 37  | 35  | 34  | 32   | 29   | 27   | 24   |               |
|              | 20  |     |     |     |     |     |     |     | 45  | 45  | 44  | 42  | 41  | 40  | 38  | 36  | 35  | 33  | 31   | 28   | 26   | 22   |               |
|              | 30  |     |     |     |     |     |     |     | 45  | 44  | 43  | 42  | 40  | 39  | 37  | 36  | 34  | 32  | 30   | 27   | 24   | 20   |               |
|              | 40  |     |     |     |     |     | 45  | 44  | 44  | 42  | 41  | 40  | 38  | 37  | 35  | 33  | 31  | 28  | 26   | 22   |      |      |               |
|              | 50  |     |     |     |     | 46  | 45  | 44  | 43  | 42  | 40  | 39  | 37  | 36  | 34  | 32  | 30  | 27  | 24   | 21   |      |      |               |
|              | 60  |     |     |     | 46  | 45  | 44  | 43  | 42  | 41  | 40  | 38  | 37  | 35  | 33  | 31  | 29  | 26  | 23   |      |      |      |               |
|              | 70  |     |     |     | 45  | 44  | 43  | 42  | 42  | 41  | 39  | 38  | 36  | 34  | 32  | 30  | 28  | 25  | 21   |      |      |      |               |
|              | 80  |     |     |     | 46  | 45  | 44  | 43  | 42  | 41  | 40  | 38  | 37  | 35  | 33  | 31  | 29  | 26  | 23   |      |      |      |               |
| Shut-off PSI |     |     |     | 403 | 385 | 368 | 351 | 333 | 325 | 303 | 281 | 260 | 238 | 216 | 195 | 173 | 152 | 130 | 108  | 87   | 65   | 43   |               |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performance shown is based on a pump without check valve.

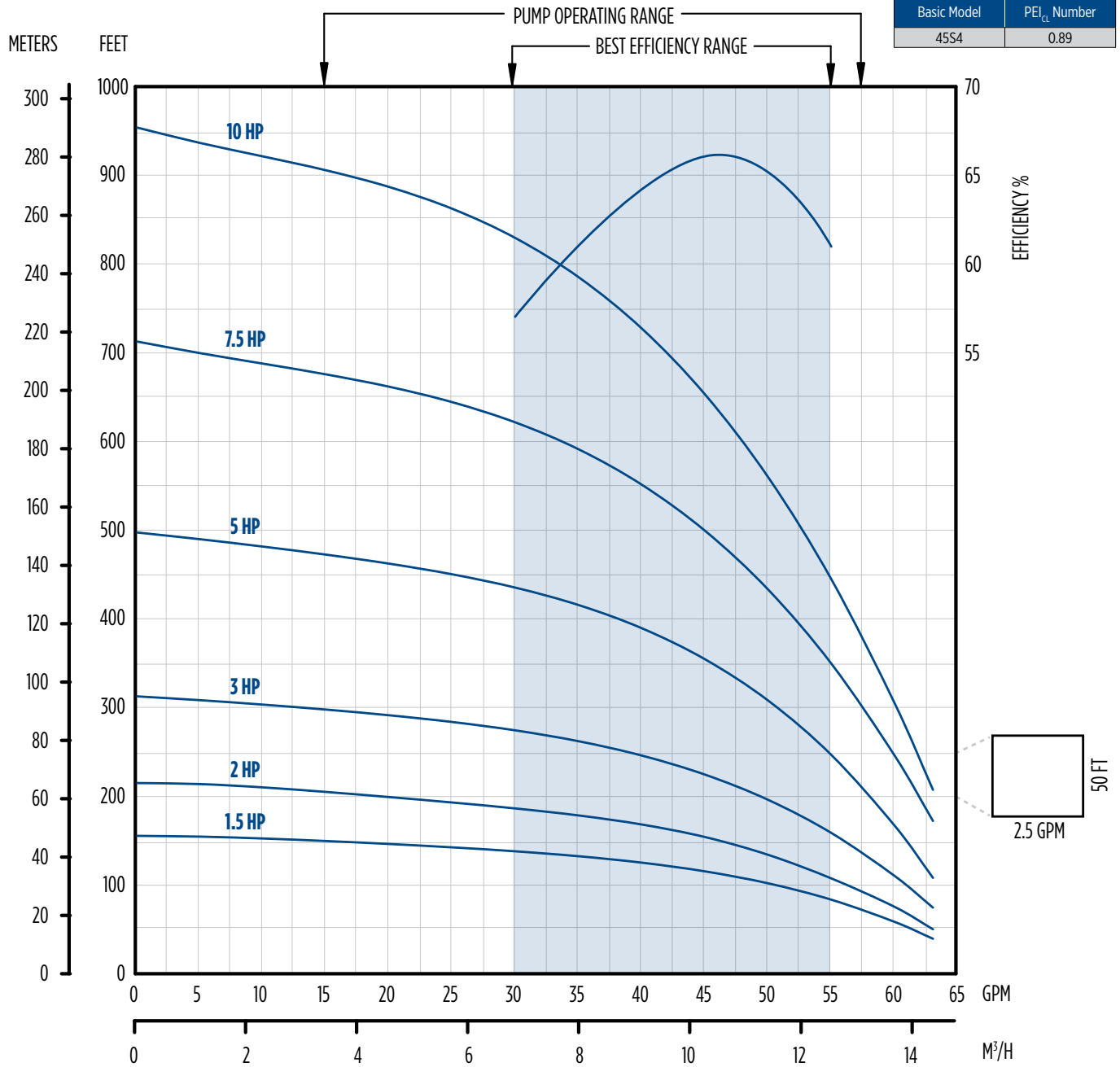
# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### PERFORMANCE

45 GPM



# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### PERFORMANCE

45 GPM

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-Off (ft) |
|--------------|-----|------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|              |     | 0                                                                                              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 |               |
| 1.5          | 0   |                                                                                                |     |     |     | 55  | 50  | 43  |     |     |     |     |     |     |     |     |     |     | 156           |
|              | 10  |                                                                                                |     |     | 54  | 49  | 41  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     | 54  | 48  | 39  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                | 53  | 47  | 38  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 52                                                                                             | 46  | 36  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 44                                                                                             | 33  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 30                                                                                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 68                                                                                             | 59  | 50  | 42  | 33  | 24  | 16  |     |     |     |     |     |     |     |     |     |     |               |
| 2            | 0   |                                                                                                |     |     |     |     | 52  | 48  | 43  | 35  |     |     |     |     |     |     |     |     | 216           |
|              | 10  |                                                                                                |     |     |     | 52  | 47  | 42  | 33  |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     | 55  | 51  | 47  | 41  | 31  |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     | 54  | 51  | 46  | 39  | 29  |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                | 54  | 50  | 45  | 38  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 53                                                                                             | 49  | 44  | 37  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 48                                                                                             | 43  | 35  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 3            | 0   |                                                                                                |     |     |     |     |     |     | 54  | 51  | 48  | 45  | 41  |     |     |     |     |     | 312           |
|              | 10  |                                                                                                |     |     |     |     |     |     | 54  | 51  | 48  | 45  | 40  |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     | 53  | 50  | 47  | 44  | 39  | 32  |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     | 55  | 53  | 50  | 47  | 43  | 38  | 31  |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     | 55  | 52  | 50  | 46  | 42  | 37  |     |     |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                | 55  | 52  | 49  | 46  | 42  | 36  |     |     |     |     |     |     |     |     |     |     |               |
| 5            | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     | 55  | 52  | 48  | 44  | 38  |     | 500           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     | 53  | 50  | 46  | 41  | 33  |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     | 55  | 51  | 48  | 43  | 37  |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     | 56  | 54  | 53  | 49  | 45  | 40  | 32  |     |     |               |
|              | 40  |                                                                                                |     |     |     |     |     |     | 56  | 54  | 53  | 51  | 47  | 42  | 36  |     |     |     |               |
|              | 50  |                                                                                                |     |     |     |     | 55  | 54  | 52  | 50  | 49  | 46  | 42  | 34  |     |     |     |     |               |
|              | 60  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 7.5          | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 707           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     | 55  | 53  | 50  | 47  | 44  | 40  | 38  | 30  |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     | 56  | 54  | 51  | 48  | 45  | 42  | 37  | 35  |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     | 54  | 52  | 50  | 47  | 43  | 39  | 34  | 31  |     |     |     |     |     |     |               |
|              | 60  |                                                                                                |     |     | 53  | 51  | 48  | 45  | 41  | 37  | 30  |     |     |     |     |     |     |     |               |
| 10           | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 950           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 15           | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 156           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 237                                                                                            | 228 | 219 | 202 | 185 | 168 | 150 | 133 | 116 | 98  | 90  | 68  | 46  |     |     |     |     |               |
| 20           | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 216           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 25           | 0   |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 312           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  |                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 307                                                                                            | 290 | 273 | 255 | 238 | 221 | 203 | 195 | 173 | 152 | 130 | 108 | 87  | 65  |     |     |     |               |

| HP           | PSI | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 7.5          | 0   |     |     |     |     |     |     | 54  | 52  | 49  | 46  | 45  | 40  | 34  |     |     |     |     |     |     | 707           |
|              | 10  |     |     |     |     |     | 55  | 53  | 50  | 48  | 44  | 43  | 37  | 30  |     |     |     |     |     |     |               |
|              | 20  |     |     |     |     |     | 54  | 52  | 49  | 46  | 42  | 40  | 34  |     |     |     |     |     |     |     |               |
|              | 30  |     |     |     |     | 55  | 53  | 50  | 47  | 44  | 40  | 38  | 30  |     |     |     |     |     |     |     |               |
|              | 40  |     |     |     | 56  | 54  | 51  | 48  | 45  | 42  | 37  | 35  |     |     |     |     |     |     |     |     |               |
|              | 50  |     |     |     | 54  | 52  | 50  | 47  | 43  | 39  | 34  | 31  |     |     |     |     |     |     |     |     |               |
|              | 60  |     |     | 55  | 53  | 51  | 48  | 45  | 41  | 37  | 30  |     |     |     |     |     |     |     |     |     |               |
|              | 70  |     | 55  | 54  | 52  | 49  | 46  | 43  | 39  | 33  |     |     |     |     |     |     |     |     |     |     |               |
|              | 80  | 55  | 54  | 53  | 50  | 48  | 44  | 41  | 36  |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 237 | 228 | 219 | 202 | 185 | 168 | 150 | 133 | 116 | 98  | 90  | 68  | 46  |     |     |     |     |     |     |               |
| 10           | 0   |     |     |     |     |     |     |     |     | 55  | 53  | 53  | 50  | 48  | 45  | 42  | 38  | 33  |     |     | 950           |
|              | 10  |     |     |     |     |     |     |     | 56  | 54  | 52  | 52  | 49  | 47  | 44  | 40  | 36  | 31  |     |     |               |
|              | 20  |     |     |     |     |     |     |     | 55  | 53  | 51  | 51  | 48  | 45  | 42  | 38  | 34  |     |     |     |               |
|              | 30  |     |     |     |     |     |     | 56  | 54  | 52  | 50  | 49  | 47  | 44  | 40  | 36  | 31  |     |     |     |               |
|              | 40  |     |     |     |     |     | 55  | 53  | 51  | 49  | 48  | 46  | 42  | 39  | 34  |     |     |     |     |     |               |
|              | 50  |     |     |     |     | 55  | 54  | 52  | 50  | 48  | 47  | 44  | 41  | 37  | 31  |     |     |     |     |     |               |
|              | 60  |     |     |     |     | 56  | 54  | 53  | 51  | 49  | 47  | 46  | 43  | 39  | 34  |     |     |     |     |     |               |
|              | 70  |     |     |     |     | 55  | 53  | 52  | 50  | 48  | 46  | 44  | 41  | 37  | 32  |     |     |     |     |     |               |
|              | 80  |     |     |     | 56  | 54  | 52  | 51  | 49  | 47  | 44  | 43  | 39  | 35  |     |     |     |     |     |     |               |
| Shut-off PSI |     |     |     |     | 307 | 290 | 273 | 255 | 238 | 221 | 203 | 195 | 173 | 152 | 130 | 108 | 87  | 65  |     |     |               |

# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS

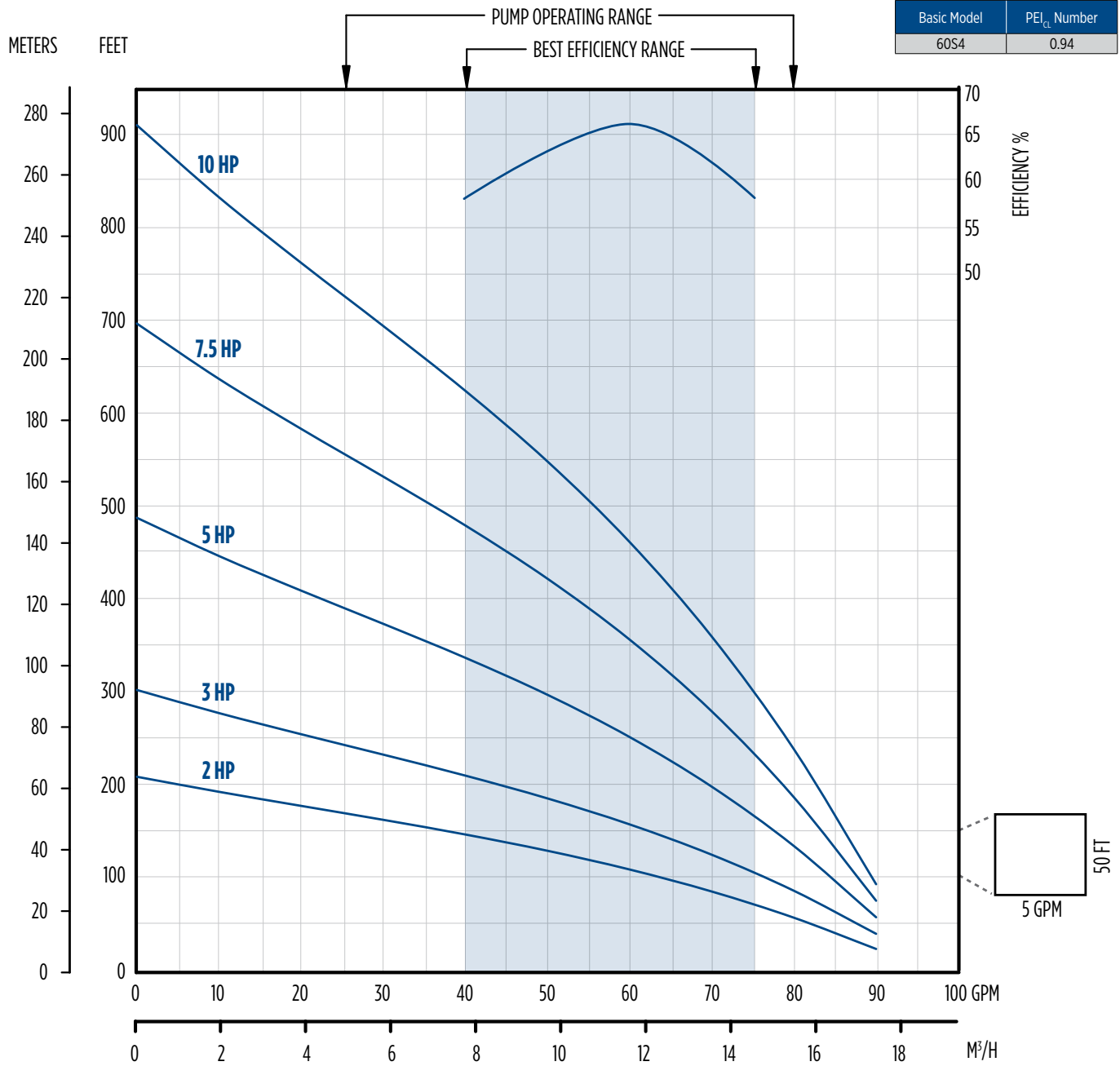


Franklin Electric

### PERFORMANCE

60 GPM

| Basic Model | PEI <sub>CL</sub> Number |
|-------------|--------------------------|
| 60S4        | 0.94                     |



# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



### PERFORMANCE

60 GPM

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | Shut-Off (ft) |
|--------------|-----|------------------------------------------------------------------------------------------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|              |     | 0                                                                                              | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 |               |
| 2            | 0   |                                                                                                |    |    | 79 | 72 | 64  | 55  | 45  |     |     |     |     |     |     |     |     |     | 206           |
|              | 10  |                                                                                                |    | 78 | 71 | 63 | 54  | 43  |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                | 77 | 70 | 62 | 52 | 41  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  | 76                                                                                             | 69 | 60 | 51 |    |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 68                                                                                             | 59 | 49 |    |    |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 57                                                                                             | 47 |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 45                                                                                             |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 89                                                                                             | 81 | 72 | 63 | 55 | 46  | 37  | 29  |     |     |     |     |     |     |     |     |     |               |
| 3            | 0   |                                                                                                |    |    |    | 82 | 77  | 71  | 66  | 59  | 52  | 44  |     |     |     |     |     |     | 300           |
|              | 10  |                                                                                                |    |    | 81 | 76 | 71  | 65  | 58  | 51  | 43  |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |    | 80 | 75 | 70 | 64  | 57  | 50  | 42  |     |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                | 79 | 74 | 69 | 63 | 56  | 49  | 40  |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 79                                                                                             | 74 | 68 | 62 | 55 | 47  | 39  |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 73                                                                                             | 67 | 61 | 54 | 46 | 38  | 29  |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 66                                                                                             | 60 | 53 | 45 |    |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 5            | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 485           |
|              | 10  |                                                                                                |    |    |    | 82 | 79  | 76  | 73  | 69  | 66  | 58  | 49  |     |     |     |     |     |               |
|              | 20  |                                                                                                |    |    |    | 81 | 78  | 75  | 72  | 69  | 65  | 61  | 53  | 43  |     |     |     |     |               |
|              | 30  |                                                                                                |    |    | 81 | 78 | 75  | 72  | 68  | 64  | 60  | 56  | 47  |     |     |     |     |     |               |
|              | 40  |                                                                                                |    | 80 | 77 | 74 | 71  | 68  | 64  | 60  | 56  | 51  | 41  |     |     |     |     |     |               |
|              | 50  |                                                                                                | 80 | 77 | 74 | 71 | 67  | 63  | 59  | 55  | 50  | 45  |     |     |     |     |     |     |               |
|              | 60  | 79                                                                                             | 76 | 73 | 70 | 66 | 63  | 59  | 54  | 50  | 45  | 40  |     |     |     |     |     |     |               |
| 7.5          | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 700           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 79  | 75  | 70  | 65  | 60  | 54  | 47  | 40  |               |
|              | 20  |                                                                                                |    |    |    |    |     |     | 80  | 78  | 76  | 74  | 69  | 64  | 59  | 53  | 46  |     |               |
|              | 30  |                                                                                                |    |    |    |    |     | 80  | 78  | 76  | 74  | 71  | 66  | 61  | 55  | 49  | 42  |     |               |
|              | 40  |                                                                                                |    |    |    |    | 80  | 78  | 75  | 73  | 71  | 69  | 63  | 58  | 52  | 45  |     |     |               |
|              | 50  |                                                                                                |    |    | 81 | 79 | 77  | 75  | 73  | 71  | 68  | 66  | 60  | 54  | 48  | 41  |     |     |               |
|              | 60  |                                                                                                |    | 81 | 79 | 77 | 75  | 72  | 70  | 68  | 65  | 63  | 57  | 51  | 44  |     |     |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |
|              | 60  |                                                                                                |    |    | 80 | 79 | 77  | 75  | 74  | 72  | 68  | 64  | 60  | 56  | 51  | 46  | 41  |     |               |
| 10           | 0   |                                                                                                |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | 905           |
|              | 10  |                                                                                                |    |    |    |    |     |     |     | 81  | 78  | 75  | 72  | 68  | 64  | 60  | 55  | 53  | 47            |
|              | 20  |                                                                                                |    |    |    |    |     |     | 81  | 79  | 76  | 73  | 69  | 66  | 62  | 57  | 53  | 50  | 44            |
|              | 30  |                                                                                                |    |    |    |    |     | 81  | 79  | 78  | 74  | 71  | 67  | 63  | 59  | 55  | 50  | 47  | 41            |
|              | 40  |                                                                                                |    |    |    |    | 81  | 79  | 77  | 76  | 72  | 69  | 65  | 61  | 57  | 52  | 47  | 44  |               |
|              | 50  |                                                                                                |    |    |    | 80 | 79  | 77  | 76  | 74  | 70  | 67  | 63  | 58  | 54  | 49  | 44  | 41  |               |

# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS

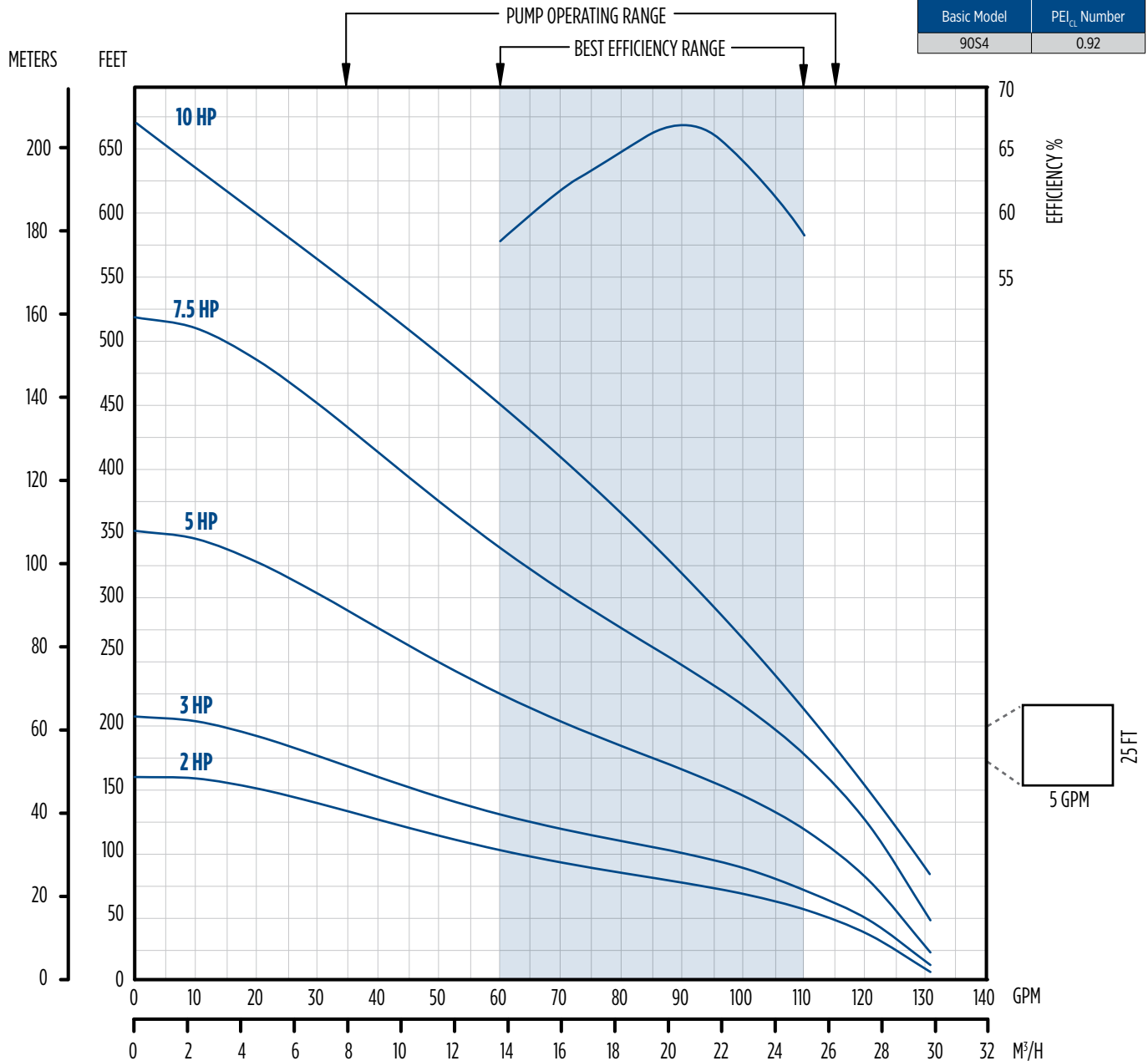


Franklin Electric

### PERFORMANCE

90 GPM

| Basic Model | PEI <sub>CL</sub> Number |
|-------------|--------------------------|
| 90S4        | 0.92                     |



# SUBMERSIBLE PUMPS

## 4" TRI-SEAL HIGH CAPACITY PUMPS



| PERFORMANCE  |     | 90 GPM                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|--------------|-----|------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              |     | 0                                                                                              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | Shut-Off (ft) |
| 2            | 0   |                                                                                                |     |     | 104 | 89  |     |     |     |     |     |     |     |     |     |     |     |     | 170           |
|              | 10  |                                                                                                |     |     | 102 | 86  | 67  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     | 100 | 83  | 64  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  | 97                                                                                             | 80  | 60  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 77                                                                                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 74                                                                                             | 65  | 56  | 48  | 39  |     |     |     |     |     |     |     |     |     |     |     |     |               |
| 3            | 0   |                                                                                                |     |     |     | 103 | 90  | 76  |     |     |     |     |     |     |     |     |     |     | 220           |
|              | 10  |                                                                                                |     |     |     | 101 | 88  | 73  |     |     |     |     |     |     |     |     |     |     |               |
|              | 20  |                                                                                                |     | 110 | 99  | 86  | 71  |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 30  | 109                                                                                            | 97  | 84  | 68  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 40  | 95                                                                                             | 81  | 65  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 50  | 79                                                                                             | 63  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 95                                                                                             | 87  | 78  | 69  | 61  | 52  | 43  |     |     |     |     |     |     |     |     |     |     |               |
| 5            | 0   |                                                                                                |     |     |     |     |     | 106 | 99  | 92  | 84  | 76  |     |     |     |     |     |     | 365           |
|              | 10  |                                                                                                |     |     |     |     |     | 105 | 98  | 91  | 83  | 74  | 65  |     |     |     |     |     |               |
|              | 20  |                                                                                                |     |     | 110 | 104 | 97  | 90  | 82  | 73  | 64  |     |     |     |     |     |     |     |               |
|              | 30  |                                                                                                |     |     | 109 | 103 | 96  | 88  | 80  | 72  | 62  |     |     |     |     |     |     |     |               |
|              | 40  |                                                                                                |     | 108 | 102 | 95  | 87  | 79  | 70  | 61  |     |     |     |     |     |     |     |     |               |
|              | 50  | 107                                                                                            | 101 | 94  | 86  | 78  | 69  | 60  |     |     |     |     |     |     |     |     |     |     |               |
|              | 60  | 100                                                                                            | 92  | 85  | 76  | 67  |     |     |     |     |     |     |     |     |     |     |     |     |               |
|              | 70  | 91                                                                                             | 83  | 75  | 66  |     |     |     |     |     |     |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 158                                                                                            | 149 | 141 | 132 | 123 | 115 | 106 | 97  | 89  | 80  | 71  |     |     |     |     |     |     |               |
| 7.5          | 0   |                                                                                                |     |     |     |     |     |     |     | 111 | 106 | 101 | 91  | 81  | 69  |     |     |     | 535           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     | 110 | 105 | 101 | 96  | 85  | 74  | 62  |     |     |               |
|              | 20  |                                                                                                |     |     |     |     |     |     | 109 | 105 | 100 | 95  | 90  | 79  | 68  |     |     |     |               |
|              | 30  |                                                                                                |     |     |     |     |     | 108 | 104 | 99  | 94  | 89  | 84  | 73  | 60  |     |     |     |               |
|              | 40  |                                                                                                |     |     |     | 108 | 103 | 98  | 93  | 88  | 83  | 77  | 66  |     |     |     |     |     |               |
|              | 50  |                                                                                                |     |     | 107 | 102 | 98  | 93  | 87  | 82  | 76  | 71  |     |     |     |     |     |     |               |
|              | 60  |                                                                                                | 111 | 106 | 102 | 97  | 92  | 87  | 81  | 76  | 70  | 64  |     |     |     |     |     |     |               |
|              | 70  | 110                                                                                            | 106 | 101 | 96  | 91  | 86  | 80  | 75  | 69  | 63  |     |     |     |     |     |     |     |               |
| Shut-off PSI |     | 232                                                                                            | 223 | 214 | 206 | 197 | 188 | 180 | 171 | 162 | 154 | 145 | 128 | 110 | 93  |     |     |     |               |
| 10           | 0   |                                                                                                |     |     |     |     |     |     |     |     |     | 112 | 105 | 98  | 90  | 82  | 74  | 65  | 680           |
|              | 10  |                                                                                                |     |     |     |     |     |     |     |     |     | 112 | 108 | 101 | 93  | 86  | 77  | 69  |               |
|              | 20  |                                                                                                |     |     |     |     |     |     |     |     | 111 | 108 | 104 | 97  | 89  | 81  | 73  | 64  |               |
|              | 30  |                                                                                                |     |     |     |     |     | 114 | 111 | 107 | 103 | 104 | 100 | 92  | 84  | 76  | 68  | 59  |               |
|              | 40  |                                                                                                |     |     |     |     | 114 | 110 | 107 | 103 | 99  | 95  | 88  | 80  | 71  | 62  |     |     |               |
|              | 50  |                                                                                                |     |     |     | 113 | 110 | 106 | 102 | 99  | 95  | 91  | 83  | 75  | 66  |     |     |     |               |
|              | 60  |                                                                                                |     |     | 113 | 109 | 106 | 102 | 98  | 94  | 90  | 86  | 78  | 70  | 61  |     |     |     |               |
|              | 70  |                                                                                                |     | 112 | 109 | 105 | 101 | 98  | 94  | 90  | 86  | 82  | 73  | 65  |     |     |     |     |               |
|              | 80  |                                                                                                | 112 | 108 | 104 | 101 | 97  | 93  | 89  | 85  | 81  | 77  | 69  | 60  |     |     |     |     |               |
| Shut-off PSI |     | 294                                                                                            | 286 | 277 | 268 | 260 | 251 | 242 | 234 | 225 | 216 | 208 | 190 | 173 | 156 | 139 | 121 | 104 |               |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performance shown is based on a pump without check valve.



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