



# SUBMERSIBLE PUMPS

## RESIDENTIAL & LIGHT COMMERCIAL







# SUBMERSIBLE PUMPS

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## MODEL NUMBER NOMENCLATURE

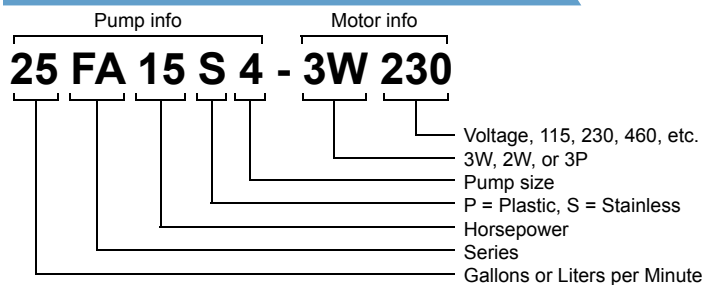
### PUMP & MOTOR BRAND/SERIES CODES

- FR = FPS 3200 Series
- FA = FPS Tri-Seal
- FV = FPS Series V
- FE = FPS Environmental
- FP = FPS Brand

### HORSEPOWER CODES

| HP   | 1/3 | 1/2 | 3/4 | 1 | 1.5 | 2 | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 175 | 200 |
|------|-----|-----|-----|---|-----|---|---|---|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Code | 03  | 05  | 07  | 1 | 15  | 2 | 3 | 5 | 7   | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 175 | 200 |

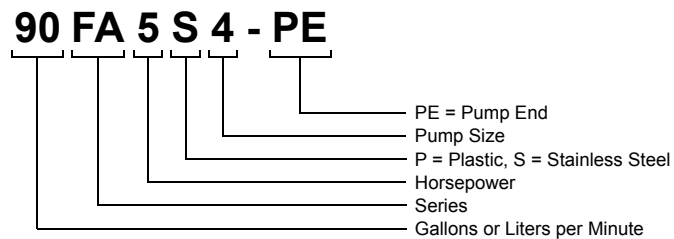
### 4" 5-25 GPM SUBMERSIBLE PUMPS/MOTORS



#### Examples:

- 15FA1S4-2W115 = 15 gpm, FPS 4400 Tri-Seal, Stainless Steel, 1 hp, 115 V, 2-wire Motor
- 10FA15SA-3W230 = 10 gpm, FPS 4400 Tri-Seal, Stainless Steel, 1.5 hp, 230 V, 3-wire Motor

### PUMP END



#### Examples:

- 45FA3S4-PE = 45 gpm, FPS 4400, 3 hp, Stainless Steel, Pump End
- 25FE1P4-PE = 25 lpm, FPS E Series, 1 hp, Plastic, Pump End

## YOUR SUBMERSIBLE PUMP TEAM

Franklin’s technical service hotline is made up of real people, offering real answers, in real time. Serving professional water systems distributors and contractors, our hotline boasts decades of collective industry experience. For answers to your water systems questions, contact our hotline by phone or email.

### CUSTOMER RELATIONS

Please contact us at:

Toll free: 800-269-0063

Fax: 260-827-5800

E-mail: [cleanwater@fele.com](mailto:cleanwater@fele.com)

Franklin Electric Website: [www.franklinwater.com](http://www.franklinwater.com)

E-Link: <http://elink.franklin-electric.com>

Distributor Self-Service: <http://customer.franklin-electric.com>

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### TECHNICAL SERVICE HOTLINE

Please contact us at:

Toll free: 800-348-2420

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Franklin Electric Website: [www.franklinwater.com](http://www.franklinwater.com)

E-Link: <http://elink.franklin-electric.com>

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EXPERIENCE  
SERVICE

## 4" 3200 SERIES PUMPS

The 3200 Series submersible pumps are designed so that all parts of the pump end, including the cable guard, fall within the diameter of Franklin Electric's industry leading submersible 4" motor. This reduced diameter pump end makes it ideal for installations where the well is considered encrusted or tight in comparison to a standard 4" well. The 3200 Series also offers a hydraulic stage design optimized for greater water and pressure output when installed at deeper well depths. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

### FEATURES

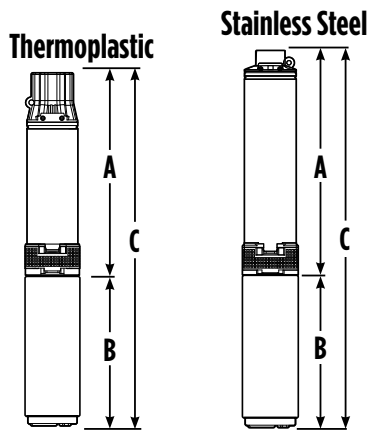
- Pump diameter is smaller than a standard 4" submersible for easier installation in reduced diameter 4" wells
- Hex rubber bearing and ceramic shaft sleeve allows sand and abrasives to pass through, virtually eliminating shaft wear and upper bearing failures
- Improved hydraulic performance for deeper set depths at all horsepower and flow ratings
  - Floating stage design allows for maximum efficiency while minimizing the downthrust load that is transferred to the motor
  - Advanced thermoplastic diffuser and disc with 300 Series stainless steel thrust and eye seal protection for durability and abrasion resistance
  - Scalloped impellers provide high performance to increase pressure output while reducing system losses from friction
- Removable spring-loaded check valve
- Stainless steel pump intake screen and stainless steel cable guard
- Maximum water temperature: 120 °F/49 °C
- Powered by corrosion-resistant Franklin Electric submersible 4" motor with lightning protection



UL 778  
 CSA 108  
 NSF/ANSI 372  
 NSF/ANSI 61 (Pump end only)

## 4" 3200 SERIES PUMPS

### DIMENSIONS



| Plastic with 2-Wire Motors |     |        |      |      |      |        |         |
|----------------------------|-----|--------|------|------|------|--------|---------|
| GPM                        | HP  | Stages | A    | B    | C    | PE Wt. | PMA Wt. |
| 5                          | 1/2 | 13     | 18.4 | 9.5  | 27.9 | 8      | 27      |
|                            | 3/4 | 18     | 22.6 | 10.6 | 33.3 | 10     | 31      |
|                            | 1   | 22     | 26.0 | 11.7 | 37.7 | 11     | 35      |
| 7                          | 1/2 | 10     | 15.9 | 9.5  | 25.4 | 7      | 26      |
|                            | 3/4 | 13     | 18.4 | 10.6 | 29.0 | 9      | 30      |
|                            | 1   | 18     | 22.6 | 11.7 | 34.3 | 11     | 35      |
| 10                         | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 8      | 27      |
|                            | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 8      | 27      |
|                            | 3/4 | 14     | 19.2 | 10.6 | 29.8 | 10     | 31      |
|                            | 1   | 19     | 23.5 | 11.7 | 35.2 | 12     | 36      |

| Plastic with 3-Wire Motors |     |        |      |      |      |        |         |
|----------------------------|-----|--------|------|------|------|--------|---------|
| GPM                        | HP  | Stages | A    | B    | C    | PE Wt. | PMA Wt. |
| 5                          | 1/2 | 13     | 18.4 | 9.5  | 27.9 | 8      | 27      |
|                            | 3/4 | 18     | 22.6 | 10.6 | 33.3 | 10     | 31      |
|                            | 1   | 22     | 26.0 | 11.7 | 37.7 | 11     | 35      |
| 7                          | 1/2 | 10     | 15.9 | 9.5  | 25.4 | 7      | 26      |
|                            | 3/4 | 13     | 18.4 | 10.6 | 29.0 | 9      | 30      |
|                            | 1   | 18     | 22.6 | 11.7 | 34.3 | 11     | 35      |
| 10                         | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 8      | 27      |
|                            | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 8      | 27      |
|                            | 3/4 | 14     | 19.2 | 10.6 | 29.8 | 10     | 31      |
|                            | 1   | 19     | 23.5 | 11.7 | 35.2 | 12     | 36      |

| Stainless Steel with 2-Wire Motors |     |        |      |      |      |        |         |
|------------------------------------|-----|--------|------|------|------|--------|---------|
| GPM                                | HP  | Stages | A    | B    | C    | PE Wt. | PMA Wt. |
| 5                                  | 1/2 | 13     | 18.4 | 9.5  | 27.9 | 10     | 29      |
|                                    | 3/4 | 18     | 22.6 | 10.6 | 33.3 | 12     | 33      |
|                                    | 1   | 22     | 26.0 | 11.7 | 37.7 | 13     | 27      |
|                                    | 1.5 | 30     | 34.1 | 15.1 | 49.2 | 19     | 50      |
| 7                                  | 1/2 | 10     | 15.9 | 9.5  | 25.4 | 9      | 28      |
|                                    | 3/4 | 13     | 18.4 | 10.6 | 29.0 | 11     | 32      |
|                                    | 1   | 18     | 22.6 | 11.7 | 34.3 | 13     | 37      |
|                                    | 1.5 | 23     | 26.8 | 15.1 | 41.9 | 17     | 48      |
| 10                                 | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 10     | 29      |
|                                    | 1/2 | 11     | 16.7 | 9.5  | 26.2 | 10     | 29      |
|                                    | 3/4 | 14     | 19.2 | 10.6 | 29.8 | 12     | 33      |
|                                    | 1   | 19     | 23.5 | 11.7 | 35.2 | 14     | 38      |
|                                    | 1.5 | 24     | 27.7 | 15.1 | 42.8 | 18     | 49      |

| Stainless Steel with 3-Wire Motors |     |        |      |       |      |        |         |
|------------------------------------|-----|--------|------|-------|------|--------|---------|
| GPM                                | HP  | Stages | A    | B     | C    | PE Wt. | PMA Wt. |
| 5                                  | 1/2 | 13     | 18.4 | 9.5   | 27.9 | 10     | 29      |
|                                    | 3/4 | 18     | 22.6 | 10.6  | 33.3 | 12     | 33      |
|                                    | 1   | 22     | 26.0 | 11.7  | 37.7 | 13     | 27      |
|                                    | 1.5 | 30     | 34.1 | 15.6  | 47.7 | 19     | 50      |
|                                    | 2   | 38     | 40.9 | 15.1  | 56.0 | 23     | N/A     |
| 7                                  | 1/2 | 10     | 15.9 | 9.5   | 25.4 | 9      | 28      |
|                                    | 3/4 | 13     | 18.4 | 10.6  | 29.0 | 11     | 32      |
|                                    | 1   | 18     | 22.6 | 11.7  | 34.3 | 13     | 37      |
|                                    | 1.5 | 23     | 26.8 | 13.6  | 40.4 | 17     | 48      |
|                                    | 2   | 30     | 34.1 | 15.1  | 49.2 | 20     | N/A     |
|                                    | 3   | 38     | 40.9 | 19.04 | 59.9 | 23     | N/A     |
| 10                                 | 1/2 | 11     | 16.7 | 9.5   | 26.2 | 10     | 29      |
|                                    | 1/2 | 11     | 16.7 | 9.5   | 26.2 | 10     | 29      |
|                                    | 3/4 | 14     | 19.2 | 10.6  | 29.8 | 12     | 33      |
|                                    | 1   | 19     | 23.5 | 11.7  | 35.2 | 14     | 38      |
|                                    | 1.5 | 24     | 27.7 | 13.6  | 41.3 | 18     | 49      |

**Notes:** All lengths are in inches, all weights are in pounds.  
 PE - Pump end only / PMA - Pump and motor assembly  
 Diameter with cable guard is 3.75"

## 4" 3200 SERIES PUMPS - 5 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire        |          | 3-Wire        |          |             |
|-----|-----|-----|-------|---------------|----------|---------------|----------|-------------|
|     |     |     |       | Model         | Order    | Model         | Order    | Control Box |
| 5   | 1/2 | 13  | 115   | 5FR05P4-2W115 | 96210505 | 5FR05P4-3W115 | 96210530 | 2801044915  |
|     | 1/2 | 13  | 230   | 5FR05P4-2W230 | 96210510 | 5FR05P4-3W230 | 96210535 | 2801054915  |
|     | 3/4 | 18  | 230   | 5FR07P4-2W230 | 96210515 | 5FR07P4-3W230 | 96210540 | 2801074915  |
|     | 1   | 22  | 230   | 5FR1P4-2W230  | 96210520 | 5FR1P4-3W230  | 96210545 | 2801084915  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire        |          | 3-Wire        |          |             |
|-----|-----|-----|-------|---------------|----------|---------------|----------|-------------|
|     |     |     |       | Model         | Order    | Model         | Order    | Control Box |
| 5   | 1/2 | 13  | 115   | 5FR05S4-2W115 | 96310505 | 5FR05S4-3W115 | 96310530 | 2801044915  |
|     | 1/2 | 13  | 230   | 5FR05S4-2W230 | 96310510 | 5FR05S4-3W230 | 96310535 | 2801054915  |
|     | 3/4 | 18  | 230   | 5FR07S4-2W230 | 96310515 | 5FR07S4-3W230 | 96310540 | 2801074915  |
|     | 1   | 22  | 230   | 5FR1S4-2W230  | 96310520 | 5FR1S4-3W230  | 96310545 | 2801084915  |
|     | 1.5 | 30  | 230   | 5FR15S4-2W230 | 96310525 | 5FR15S4-3W230 | 96310550 | 2823008610  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |     |            |          | Plastic - Pump End Only |     |     |            |          |  |
|---------------------------------|-----|-----|------------|----------|-------------------------|-----|-----|------------|----------|--|
| GPM                             | HP  | Stg | Model      | Order    | GPM                     | HP  | Stg | Model      | Order    |  |
| 5                               | 1/2 | 13  | 5FR05S4-PE | 96320500 | 5                       | 1/2 | 13  | 5FR05P4-PE | 96220500 |  |
|                                 | 3/4 | 18  | 5FR07S4-PE | 96320501 |                         | 3/4 | 18  | 5FR07P4-PE | 96220501 |  |
|                                 | 1   | 22  | 5FR1S4-PE  | 96320502 |                         | 1   | 22  | 5FR1P4-PE  | 96220502 |  |
|                                 | 1.5 | 30  | 5FR15S4-PE | 96320503 |                         |     |     |            |          |  |
|                                 | 2   | 38  | 5FR2S4-PE  | 96320504 |                         |     |     |            |          |  |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

### CAPACITIES IN U.S. GALLONS PER MINUTE

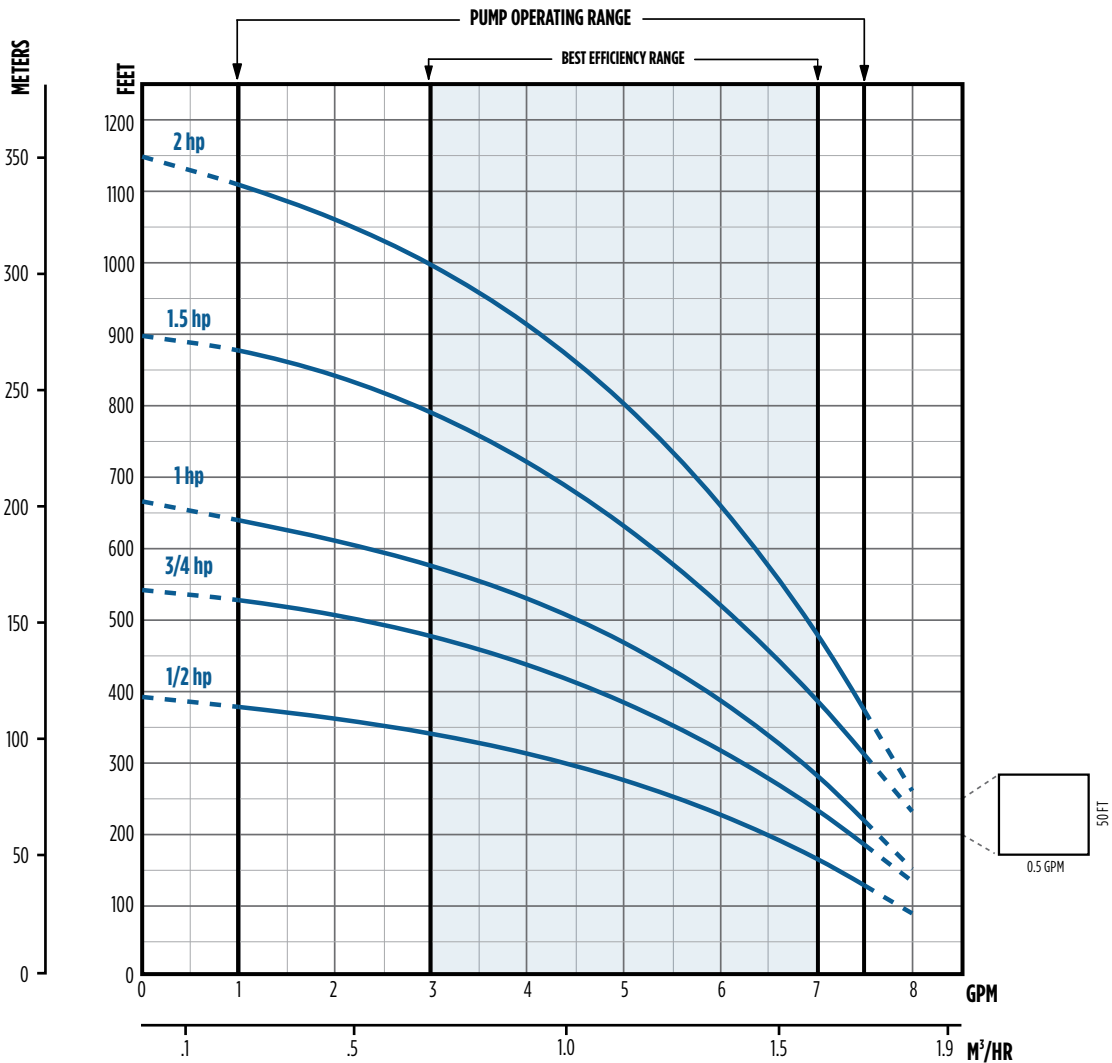
| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |      |                 |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|------|-----------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 |  | 800 | 900 | 1000 |                 |
| 1/2          | 0   |   |     |     | 8   | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |  |     |     |      | Shut-off 390 ft |
|              | 20  |   |     |     | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 4   | 3   |     |     |     |     |  |     |     |      |                 |
|              | 30  | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |  |     |     |      |                 |
|              | 40  | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 3   |     |     |     |     |     |     |     |  |     |     |      |                 |
|              | 50  | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 4   | 2   |     |     |     |     |     |     |     |  |     |     |      |                 |
|              | 80  | 6   | 6   | 6   | 5   | 5   | 4   | 4   | 3   | 2   |     |     |     |     |     |     |     |     |     |  |     |     |      |                 |
| Shut-off PSI |     | 161   | 152 | 143 | 135 | 126 | 117 | 109 | 100 | 91  | 83  | 61  | 39  | 18  |     |     |     |     |     |  |     |     |      |                 |
| 3/4          | 0   |   |     |     |     | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 6   | 5   | 4   | 2   |     |     |  |     |     |      | Shut-off 541 ft |
|              | 20  |   |     |     |     | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 1   |     |     |     |  |     |     |      |                 |
|              | 30  |   |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |  |     |     |      |                 |
|              | 40  |   |     | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |  |     |     |      |                 |
|              | 50  | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   | 2   |     |     |     |     |  |     |     |      |                 |
|              | 80  | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   | 1   |     |     |     |     |     |  |     |     |      |                 |
| Shut-off PSI |     | 226   | 217 | 209 | 200 | 191 | 183 | 174 | 165 | 157 | 148 | 126 | 105 | 83  | 61  | 39  | 18  |     |     |  |     |     |      |                 |
| 1            | 0   |   |     |     |     |     | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 6   | 5   | 5   | 2   |     |     |  |     |     |      | Shut-off 666 ft |
|              | 20  |   |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 1   |     |     |  |     |     |      |                 |
|              | 30  |   |     |     |     | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |  |     |     |      |                 |
|              | 40  |   |     |     | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |  |     |     |      |                 |
|              | 50  |   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 2   |     |     |     |     |  |     |     |      |                 |
|              | 80  | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   | 1   |     |     |     |     |     |  |     |     |      |                 |
| Shut-off PSI |     | 280   | 271 | 263 | 254 | 245 | 237 | 228 | 219 | 211 | 202 | 180 | 159 | 137 | 115 | 94  | 72  | 29  |     |  |     |     |      |                 |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 4" 3200 SERIES PUMPS - 5 GPM

## PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 1.5          | 0   |   |     |     |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 2   |     |     |      |
|              | 30  |   |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 3   | 1   |     |     |      |
|              | 40  |   |     |     |     |     | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   |     |     |     |      |
|              | 50  |   |     |     |     | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   |     |     |     |      |
|              | 60  |   |     |     | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 2   |     |     |     |      |
|              | 80  | 8   | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 4   | 3   | 1   |     |     |     |      |
| Shut-off PSI |     | 381   | 372 | 364 | 355 | 346 | 338 | 329 | 320 | 312 | 303 | 281 | 260 | 238 | 216 | 195 | 173 | 130 | 86  | 43  |     |      |
| 2            | 0   |   |     |     |     |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   |      |
|              | 20  |   |     |     |     |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 5   | 4   | 2   |      |
|              | 30  |   |     |     |     |     |     |     |     |     | 8   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 2   |      |
|              | 40  |   |     |     |     |     |     |     | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 1   |      |
|              | 50  |   |     |     |     |     |     | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 3   | 1   |      |
|              | 60  |   |     |     |     |     | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 5   | 5   | 4   | 2   |     |      |
|              | 80  |   |     |     | 8   | 8   | 8   | 8   | 8   | 8   | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   | 2   |     |      |
| Shut-off PSI |     | 491   | 482 | 473 | 465 | 456 | 447 | 439 | 430 | 421 | 413 | 391 | 369 | 348 | 326 | 304 | 282 | 239 | 195 | 152 | 109 | 66   |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" 3200 SERIES PUMPS - 7 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire        |          | 3-Wire        |          |             |
|-----|-----|-----|-------|---------------|----------|---------------|----------|-------------|
|     |     |     |       | Model         | Order    | Model         | Order    | Control Box |
| 7   | 1/2 | 10  | 115   | 7FR05P4-2W115 | 96210705 | 7FR05P4-3W115 | 96210730 | 2801044915  |
|     | 1/2 | 10  | 230   | 7FR05P4-2W230 | 96210710 | 7FR05P4-3W230 | 96210735 | 2801054915  |
|     | 3/4 | 13  | 230   | 7FR07P4-2W230 | 96210715 | 7FR07P4-3W230 | 96210740 | 2801074915  |
|     | 1   | 18  | 230   | 7FR1P4-2W230  | 96210720 | 7FR1P4-3W230  | 96210745 | 2801084915  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire        |          | 3-Wire        |          |             |
|-----|-----|-----|-------|---------------|----------|---------------|----------|-------------|
|     |     |     |       | Model         | Order    | Model         | Order    | Control Box |
| 7   | 1/2 | 10  | 115   | 7FR05S4-2W115 | 96310705 | 7FR05S4-3W115 | 96310730 | 2801044915  |
|     | 1/2 | 10  | 230   | 7FR05S4-2W230 | 96310710 | 7FR05S4-3W230 | 96310735 | 2801054915  |
|     | 3/4 | 13  | 230   | 7FR07S4-2W230 | 96310715 | 7FR07S4-3W230 | 96310740 | 2801074915  |
|     | 1   | 18  | 230   | 7FR1S4-2W230  | 96310720 | 7FR1S4-3W230  | 96310745 | 2801084915  |
|     | 1.5 | 23  | 230   | 7FR15S4-2W230 | 96310725 | 7FR15S4-3W230 | 96310750 | 2823008610  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |     |            |          | Plastic - Pump End Only |     |     |            |          |
|---------------------------------|-----|-----|------------|----------|-------------------------|-----|-----|------------|----------|
| GPM                             | HP  | Stg | Model      | Order    | GPM                     | HP  | Stg | Model      | Order    |
| 7                               | 1/2 | 10  | 7FR05S4-PE | 96320700 | 7                       | 1/2 | 10  | 7FR05P4-PE | 96220700 |
|                                 | 3/4 | 13  | 7FR07S4-PE | 96320701 |                         | 3/4 | 13  | 7FR07P4-PE | 96220701 |
|                                 | 1   | 18  | 7FR1S4-PE  | 96320702 |                         | 1   | 18  | 7FR1P4-PE  | 96220702 |
|                                 | 1.5 | 23  | 7FR15S4-PE | 96320703 |                         |     |     |            |          |
|                                 | 2   | 30  | 7FR2S4-PE  | 96320704 |                         |     |     |            |          |
|                                 | 3   | 38  | 7FR3S4-PE  | 96320705 |                         |     |     |            |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

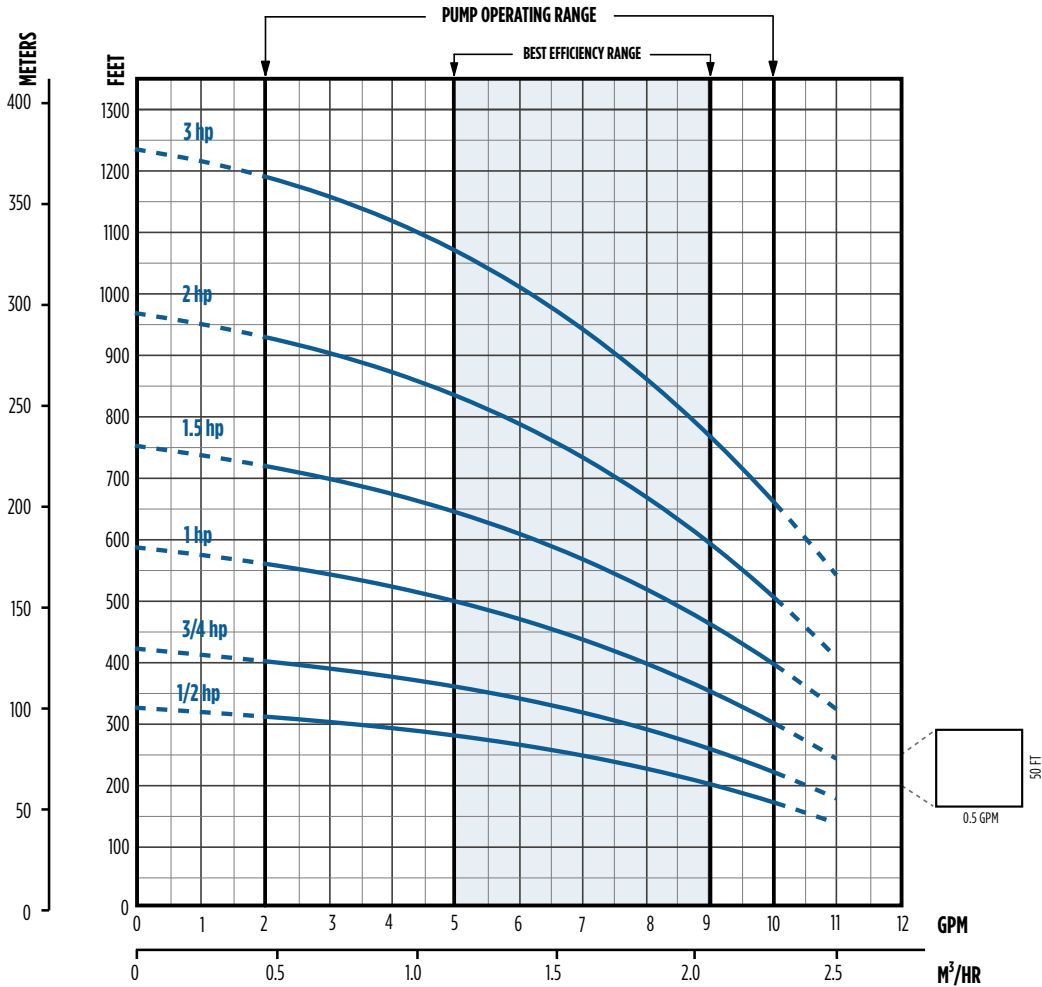
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |                 |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 |  | 1000            |
| 1/2          | 0   |   |     |     |     | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 7   | 3   |     |     |     |     |     |     |     |  | Shut-off 324 ft |
|              | 20  |   |     | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 4   |     |     |     |     |     |     |     |     |  |                 |
|              | 30  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 6   | 1   |     |     |     |     |     |     |     |     |     |  |                 |
|              | 40  | 12  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |  |                 |
|              | 50  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 5   | 4   | 1   |     |     |     |     |     |     |     |     |     |     |  |                 |
|              | 60  | 10  | 10  | 9   | 8   | 7   | 6   | 5   | 3   | 1   |     |     |     |     |     |     |     |     |     |     |     |  |                 |
|              | 80  | 9   | 8   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |                 |
| Shut-off PSI |     | 132   | 123 | 115 | 106 | 97  | 89  | 80  | 71  | 63  | 54  | 32  | 10  |     |     |     |     |     |     |     |     |  |                 |
| 3/4          | 0   |   |     |     |     | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 5   | 2   |     |     |     |     |     |     |     |  | Shut-off 421 ft |
|              | 20  |   |     |     | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 6   | 2   |     |     |     |     |     |     |     |  |                 |
|              | 30  |   |     | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 9   | 7   | 4   |     |     |     |     |     |     |     |     |  |                 |
|              | 40  |   | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 6   | 3   |     |     |     |     |     |     |     |     |  |                 |
|              | 50  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 5   | 1   |     |     |     |     |     |     |     |     |  |                 |
|              | 60  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 3   |     |     |     |     |     |     |     |     |     |  |                 |
|              | 80  | 10  | 10  | 9   | 9   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |  |                 |
| Shut-off PSI |     | 174   | 165 | 156 | 148 | 139 | 130 | 122 | 113 | 104 | 96  | 74  | 52  | 31  | 9   |     |     |     |     |     |     |  |                 |
| 1            | 0   |   |     |     |     |     |     | 12  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 5   |     |     |     |     |     |  | Shut-off 526 ft |
|              | 20  |   |     |     |     | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |  |                 |
|              | 30  |   |     |     |     | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 9   | 7   | 6   | 4   | 1   |     |     |     |     |  |                 |
|              | 40  |   |     |     | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |  |                 |
|              | 50  |   |     | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 6   | 5   | 2   |     |     |     |     |     |  |                 |
|              | 60  |   | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |  |                 |
|              | 80  | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 3   |     |     |     |     |     |     |     |  |                 |
| Shut-off PSI |     | 245   | 237 | 228 | 219 | 211 | 202 | 193 | 185 | 176 | 167 | 146 | 124 | 102 | 81  | 59  | 37  |     |     |     |     |  |                 |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" 3200 SERIES PUMPS - 7 GPM

## PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   |     |     |     |      |
|              | 30  |   |     |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 4   |     |     |      |
|              | 40  |   |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 8   | 6   | 3   |     |     |     |      |
|              | 50  |   |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 6   | 2   |     |     |     |      |
|              | 60  |   |     |     |     | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 5   | 1   |     |     |     |      |
|              | 80  |   | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 5   | 4   |     |     |     |     |     |     |      |
| Shut-off PSI |     | 317   | 309 | 300 | 291 | 283 | 274 | 265 | 257 | 248 | 199 | 218 | 196 | 174 | 153 | 131 | 109 | 66  | 23  |     |     |      |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 3   |     |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     | 12  | 12  | 11  | 11  | 10  | 10  | 8   | 7   | 5   | 1   |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 6   | 4   |      |
|              | 40  |   |     |     |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 6   | 3   |     |      |
|              | 50  |   |     |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 9   | 7   | 5   | 3   |     |      |
|              | 60  |   |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 7   | 5   | 2   |     |      |
|              | 80  |   |     |     |     |     | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 8   | 6   | 4   |     |     |      |
| Shut-off PSI |     | 411   | 403 | 394 | 385 | 376 | 368 | 359 | 350 | 342 | 333 | 312 | 290 | 268 | 247 | 225 | 203 | 160 | 117 | 73  | 30  |      |
| 3            | 0   |   |     |     | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 4   | 2   |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |     |      |
|              | 30  |   |     |     | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |      |
|              | 40  |   |     |     | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 5   | 2   |     |     |     |     |     |     |     |     |      |
|              | 50  |   |     |     | 12  | 11  | 10  | 10  | 9   | 7   | 6   | 4   | 1   |     |     |     |     |     |     |     |     |      |
|              | 60  |   |     |     | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 4   |     |     |     |     |     |     |     |     |     |      |
|              | 80  |   | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 5   | 2   |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 493   | 450 | 406 | 363 | 319 | 276 | 233 | 189 | 146 | 103 | 59  | 16  |     |     |     |     |     |     |     |     |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" 3200 SERIES PUMPS - 10 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire          |          | 3-Wire          |          |             |
|-----|-----|-----|-------|-----------------|----------|-----------------|----------|-------------|
|     |     |     |       | Model           | Order    | Model           | Order    | Control Box |
| 10  | 1/2 | 11  | 115   | 10FRD05P4-2W115 | 96211005 | 10FRD05P4-3W115 | 96211030 | 2801044915  |
|     | 1/2 | 11  | 230   | 10FRD05P4-2W230 | 96211010 | 10FRD05P4-3W230 | 96211035 | 2801054915  |
|     | 3/4 | 14  | 230   | 10FRD07P4-2W230 | 96211015 | 10FRD07P4-3W230 | 96211040 | 2801074915  |
|     | 1   | 19  | 230   | 10FRD1P4-2W230  | 96211020 | 10FRD1P4-3W230  | 96211045 | 2801084915  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg | Volts | 2-Wire          |          | 3-Wire          |          |             |
|-----|-----|-----|-------|-----------------|----------|-----------------|----------|-------------|
|     |     |     |       | Model           | Order    | Model           | Order    | Control Box |
| 10  | 1/2 | 11  | 115   | 10FRD05S4-2W115 | 96310705 | 10FRD05S4-3W115 | 96311030 | 2801044915  |
|     | 1/2 | 11  | 230   | 10FRD05S4-2W230 | 96310710 | 10FRD05S4-3W230 | 96311035 | 2801054915  |
|     | 3/4 | 14  | 230   | 10FRD07S4-2W230 | 96310715 | 10FRD07S4-3W230 | 96311040 | 2801074915  |
|     | 1   | 19  | 230   | 10FRD1S4-2W230  | 96310720 | 10FRD1S4-3W230  | 96311045 | 2801084915  |
|     | 1.5 | 24  | 230   | 10FRD15S4-2W230 | 96310725 | 10FRD15S4-3W230 | 96311050 | 2823008610  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |     |              |          | Plastic - Pump End Only |     |     |              |          |
|---------------------------------|-----|-----|--------------|----------|-------------------------|-----|-----|--------------|----------|
| GPM                             | HP  | Stg | Model        | Order    | GPM                     | HP  | Stg | Model        | Order    |
| 10                              | 1/2 | 11  | 10FRD05S4-PE | 96221000 | 10                      | 1/2 | 11  | 10FRD05P4-PE | 96321000 |
|                                 | 3/4 | 14  | 10FRD07S4-PE | 96221001 |                         | 3/4 | 14  | 10FRD07P4-PE | 96321001 |
|                                 | 1   | 19  | 10FRD1S4-PE  | 96221002 |                         | 1   | 19  | 10FRD1P4-PE  | 96321002 |
|                                 | 1.5 | 24  | 10FRD15S4-PE | 96221003 |                         |     |     |              |          |

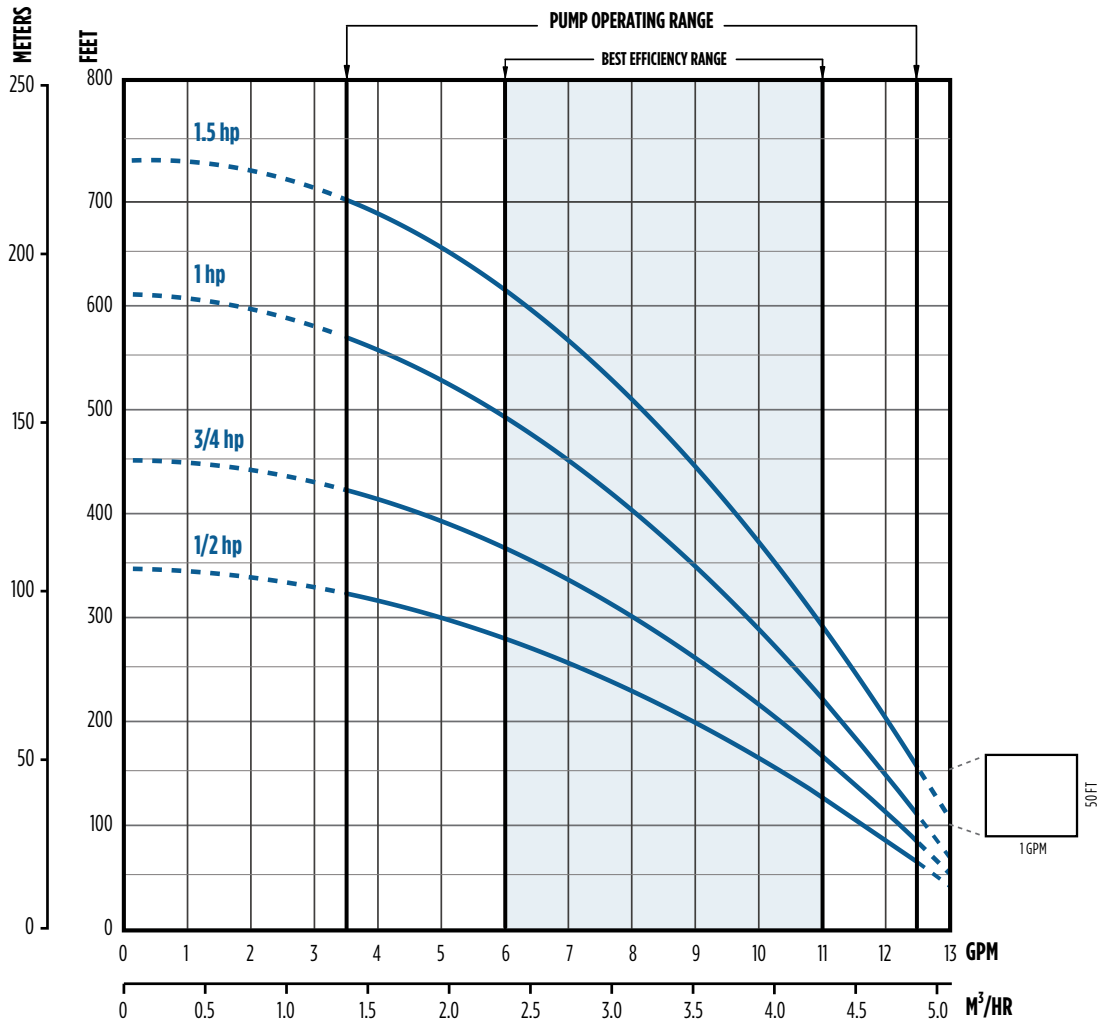
### CAPACITIES IN U.S. GALLONS PER MINUTE

| 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 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |  |  |  |
| 1/2 | 0            | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 6   | 4   | 0   |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 10           | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 5   | 1   | 0   |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 20           | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 6   | 3   | 0   |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 30           | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 4   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 40           | 12  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 5   | 3   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 50           | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5   | 4   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 60           | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5   | 4   | 2   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 70           | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5   | 4   | 2   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 80           | 9   | 9   | 8   | 7   | 7   | 6   | 5   | 3   | 1   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | Shut-off PSI | 153   | 144 | 135 | 127 | 118 | 110 | 101 | 92  | 84  | 75  | 66  | 49  | 32  | 14  | 0   |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 3/4 | 0            | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 7   | 6   | 5   | 2   | 0   |     |     |     |     |     |     |     |  |  |  |
|     | 10           | 13  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 5   | 3   | 0   |     |     |     |     |     |     |     |     |  |  |  |
|     | 20           | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 6   | 4   | 1   | 0   |     |     |     |     |     |     |     |     |  |  |  |
|     | 30           | 13  | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 5   | 3   | 0   |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 40           | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 4   | 0   |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 50           | 12  | 12  | 11  | 11  | 10  | 10  | 10  | 9   | 9   | 8   | 8   | 6   | 5   | 3   | 0   |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 60           | 12  | 11  | 11  | 10  | 10  | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 4   | 0   |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 70           | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 2   | 0   |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | 80           | 11  | 10  | 10  | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 3   | 0   |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|     | Shut-off PSI | 197   | 188 | 180 | 171 | 162 | 154 | 145 | 136 | 128 | 119 | 110 | 93  | 76  | 58  | 41  | 24  | 6   | 0   |     |     |     |     |     |     |     |  |  |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" 3200 SERIES PUMPS - 10 GPM

### PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level, Lift, in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off PSI |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|
|              |     | 0   | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 |              | 600 | 650 | 700 | 750 | 800 |
| 1            | 0   | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 6   | 4   | 2            | 0   |     |     |     |     |
|              | 10  | 14  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5   | 3   | 0            |     |     |     |     |     |
|              | 20  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 9   | 9   | 8   | 7   | 6   | 5   | 4   | 2   | 0            |     |     |     |     |     |
|              | 30  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 7   | 6   | 4   | 4   | 0   |              |     |     |     |     |     |
|              | 40  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 7   | 6   | 5   | 3   | 2   | 0   |              |     |     |     |     |     |
|              | 50  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 7   | 6   | 5   | 4   | 2   | 0   |     |              |     |     |     |     |     |
|              | 60  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5   | 3   | 0   |     |              |     |     |     |     |     |
|              | 70  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 5   | 4   | 2   | 0   |     |              |     |     |     |     |     |
| 80           | 12  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 7   | 6   | 4   | 3   | 0   |     |     |     |     |              |     |     |     |     |     |
| Shut-off PSI |     | 268   | 259 | 250 | 242 | 233 | 224 | 216 | 207 | 198 | 190 | 181 | 164 | 146 | 129 | 112 | 94  | 77  | 60  | 51  | 29  | 8            | 0   |     |     |     |     |
| 1.5          | 0   | 14  | 14  | 14  | 14  | 14  | 13  | 13  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 10  | 9   | 9   | 9   | 8   | 7            | 6   | 4   | 2   | 0   |     |
|              | 10  | 14  | 14  | 14  | 14  | 13  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6            | 5   | 4   | 0   |     |     |
|              | 20  | 14  | 14  | 13  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 5            | 3   | 0   |     |     |     |
|              | 30  | 14  | 13  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 7   | 5            | 4   | 0   |     |     |     |
|              | 40  | 13  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 7   | 6   | 5   | 3            | 0   |     |     |     |     |
|              | 50  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 7   | 5   | 4   | 0            |     |     |     |     |     |
|              | 60  | 13  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 7   | 7   | 6   | 5   | 3   | 0            |     |     |     |     |     |
|              | 70  | 13  | 13  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 6   | 6   | 4   | 0   |              |     |     |     |     |     |
| 80           | 12  | 12  | 12  | 12  | 12  | 11  | 11  | 11  | 11  | 10  | 10  | 10  | 9   | 8   | 7   | 6   | 5   | 3   | 0   |     |     |              |     |     |     |     |     |
| Shut-off PSI |     | 331   | 323 | 314 | 305 | 297 | 288 | 279 | 271 | 262 | 253 | 245 | 227 | 210 | 193 | 175 | 158 | 141 | 123 | 115 | 93  | 71           | 50  | 28  | 6   | 0   |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS

The standard FPS Tri-Seal 4" submersible pump features the Tri-Seal floating stage system. This stage system further improves efficiency and protects against wear when pumping abrasives (sand). For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

### FEATURES

- 300 Series stainless steel hub floats with the impeller maintaining a positive seal
- Phenolic washer provides downthrust protection
- Scalloped impellers provide high efficiency performance and abrasion resistance
- Advanced thermoplastic diffuser and disc - proven abrasion-resistant material
- Floating stage design allows impeller to float independently
- Removable, spring-loaded check valve
- Maximum water temperature: 120 °F/49 °C
- Ceramic shaft sleeve and rubber discharge bearing protect shaft and eliminate sand wear
- Powered by Franklin Electric corrosion-resistant super stainless 4" submersible motors with lightning protection
- Patented impeller hub seal system seals radially and axially to prevent fluid recirculation, providing high performance in the harshest conditions

### Tri-Seal™ Floating Stage System

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



UL 778  
CSA 108  
NSF/ANSI 372  
NSF/ANSI 61 (Pump end only)



## 4" TRI-SEAL PUMPS - 5 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 5   | 1/2 | 8    | 115   | 5FA05P4-2W115 | 93780505 | 2445049004S | 5FA05P4-3W115 | 93780530 | 2145049004S | 2801044915  |
|     | 1/2 | 8    | 230   | 5FA05P4-2W230 | 93780510 | 2445059004S | 5FA05P4-3W230 | 93780535 | 2145059004S | 2801054915  |
|     | 3/4 | 12   | 230   | 5FA07P4-2W230 | 93780515 | 2445079004S | 5FA07P4-3W230 | 93780540 | 2145079004S | 2801074915  |
|     | 1   | 15   | 230   | 5FA1P4-2W230  | 93780520 | 2445089003S | 5FA1P4-3W230  | 93780545 | 2145089003S | 2801084915  |
|     | 1.5 | 21   | 230   | 5FA15P4-2W230 | 93780525 | 2443099004S | 5FA15P4-3W230 | 93780550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 5   | 1/2 | 8    | 115   | 5FA05S4-2W115 | 93810505 | 2445049004S | 5FA05S4-3W115 | 93810530 | 2145049004S | 2801044915  |
|     | 1/2 | 8    | 230   | 5FA05S4-2W230 | 93810510 | 2445059004S | 5FA05S4-3W230 | 93810535 | 2145059004S | 2801054915  |
|     | 3/4 | 12   | 230   | 5FA07S4-2W230 | 93810515 | 2445079004S | 5FA07S4-3W230 | 93810540 | 2145079004S | 2801074915  |
|     | 1   | 15   | 230   | 5FA1S4-2W230  | 93810520 | 2445089003S | 5FA1S4-3W230  | 93810545 | 2145089003S | 2801084915  |
|     | 1.5 | 21   | 230   | 5FA15S4-2W230 | 93810525 | 2443099004S | 5FA15S4-3W230 | 93810550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |            |          | Plastic - Pump End Only |     |      |            |          |
|---------------------------------|-----|------|------------|----------|-------------------------|-----|------|------------|----------|
| GPM                             | HP  | Stg. | Model      | Order    | GPM                     | HP  | Stg. | Model      | Order    |
| 5                               | 1/2 | 8    | 5FA05S4-PE | 93820505 | 5                       | 1/2 | 8    | 5FA05P4-PE | 93790505 |
|                                 | 3/4 | 12   | 5FA07S4-PE | 93820510 |                         | 3/4 | 12   | 5FA07P4-PE | 93790510 |
|                                 | 1   | 15   | 5FA1S4-PE  | 93820515 |                         | 1   | 15   | 5FA1P4-PE  | 93790515 |
|                                 | 1.5 | 21   | 5FA15S4-PE | 93820520 |                         | 1.5 | 21   | 5FA15P4-PE | 93790520 |
|                                 | 2   | 26   | 5FA2S4-PE  | 93820525 |                         |     |      |            |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

### CAPACITIES IN U.S. GALLONS PER MINUTE

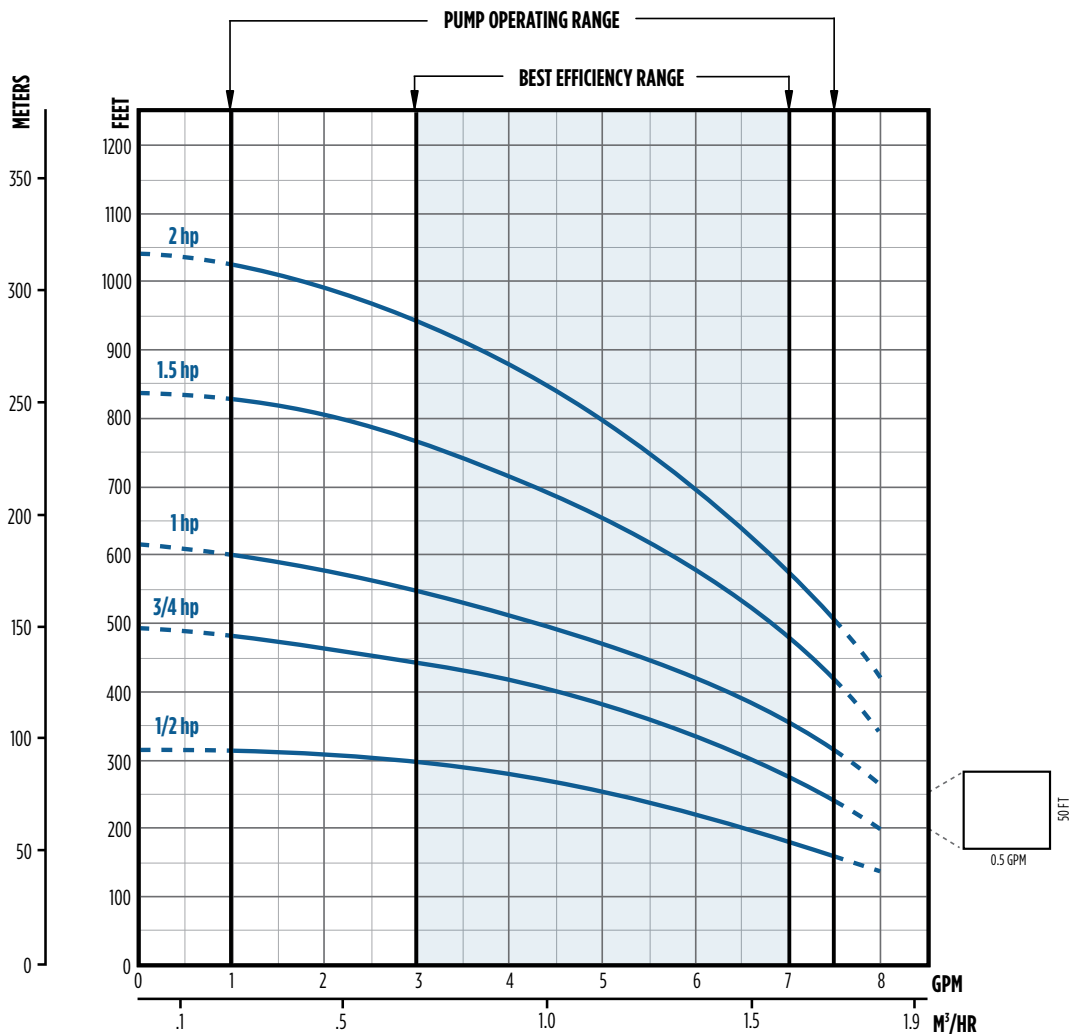
| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----------------|-----------------|-----------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 |  | 800 | 900             | 1000            |                 |
| 1/2          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 | Shut-off 315 ft |
|              | 20  |   |     |     |     | 8   | 7   | 6   | 6   | 5   | 5   | 3   | 2   |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 30  |   |     |     | 7   | 7   | 6   | 6   | 5   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 40  |   |     | 7   | 7   | 6   | 6   | 5   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 50  |   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 60  | 7   | 7   | 6   | 6   | 5   | 4   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 80  | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
| Shut-off PSI | 127 | 119   | 110 | 101 | 93  | 84  | 75  | 67  | 58  | 49  | 32  | 23  |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
| 3/4          | 0   |   |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |  |     |                 | Shut-off 505 ft |                 |
|              | 20  |   |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |  |     |                 |                 |                 |
|              | 30  |   |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |  |     |                 |                 |                 |
|              | 40  |   |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 2   |     |     |     |     |     |  |     |                 |                 |                 |
|              | 50  |   |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 60  |   |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 3   |     |     |     |     |     |     |     |  |     |                 |                 |                 |
|              | 80  | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 3   | 3   |     |     |     |     |     |     |     |     |     |  |     |                 |                 |                 |
| Shut-off PSI | 205 | 196   | 188 | 179 | 171 | 162 | 153 | 145 | 136 | 127 | 110 | 101 | 84  | 58  | 41  | 23  |     |     |     |     |     |  |     |                 |                 |                 |
| 1            | 0   |   |     |     |     |     |     |     |     |     |     |     | 8   | 7   | 6   | 6   | 5   | 4   | 4   |     |     |  |     | Shut-off 615 ft |                 |                 |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |  |     |                 |                 |                 |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 3   | 2   |     |     |  |     |                 |                 |                 |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |  |     |                 |                 |                 |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 4   | 3   |     |     |  |     |                 |                 |                 |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 5   | 4   |     |     |  |     |                 |                 |                 |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   |     |     |     |  |     |                 |                 |                 |
| Shut-off PSI | 257 | 248   | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93  | 75  | 58  | 49  |     |     |     |  |     |                 |                 |                 |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 4" TRI-SEAL PUMPS - 5 GPM

## PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |  |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 2   |     |      |  |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |     |      |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 4   | 3   |     |     |     |      |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 2   |     |     |     |      |  |
|              | 50  |   |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 3   |     |     |     |     |      |  |
|              | 60  |   |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 5   | 5   | 5   | 3   |     |     |     |     |      |  |
|              | 80  |   |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 4   | 4   | 2   |     |     |     |     |      |  |
| Shut-off PSI |     | 352   | 344 | 335 | 326 | 318 | 309 | 300 | 292 | 283 | 274 | 257 | 249 | 231 | 205 | 188 | 171 | 153 | 145 | 101 | 58  | 15  |     |      |  |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |      |  |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 2   |     |      |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 3   |     |     |      |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 3   |     |     |      |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |     |      |  |
|              | 60  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |     |      |  |
|              | 80  |   |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 5   | 3   |     |     |     |      |  |
| Shut-off PSI |     | 441   | 432 | 424 | 415 | 406 | 398 | 389 | 381 | 372 | 363 | 346 | 337 | 320 | 294 | 277 | 259 | 242 | 233 | 190 | 147 | 104 | 60  |      |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS - 7 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 7   | 1/2 | 7    | 115   | 7FA05P4-2W115 | 93780705 | 2445049004S | 7FA05P4-3W115 | 93780730 | 2145049004S | 2801044915  |
|     | 1/2 | 7    | 230   | 7FA05P4-2W230 | 93780710 | 2445059004S | 7FA05P4-3W230 | 93780735 | 2145059004S | 2801054915  |
|     | 3/4 | 10   | 230   | 7FA07P4-2W230 | 93780715 | 2445079004S | 7FA07P4-3W230 | 93780740 | 2145079004S | 2801074915  |
|     | 1   | 13   | 230   | 7FA1P4-2W230  | 93780720 | 2445089003S | 7FA1P4-3W230  | 93780745 | 2145089003S | 2801084915  |
|     | 1.5 | 18   | 230   | 7FA15P4-2W230 | 93780725 | 2443099004S | 7FA15P4-3W230 | 93780750 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 7   | 1/2 | 7    | 115   | 7FA05S4-2W115 | 93810705 | 2445049004S | 7FA05S4-3W115 | 93810730 | 2145049004S | 2801044915  |
|     | 1/2 | 7    | 230   | 7FA05S4-2W230 | 93810710 | 2445059004S | 7FA05S4-3W230 | 93810735 | 2145059004S | 2801054915  |
|     | 3/4 | 10   | 230   | 7FA07S4-2W230 | 93810715 | 2445079004S | 7FA07S4-3W230 | 93810740 | 2145079004S | 2801074915  |
|     | 1   | 13   | 230   | 7FA1S4-2W230  | 93810720 | 2445089003S | 7FA1S4-3W230  | 93810745 | 2145089003S | 2801084915  |
|     | 1.5 | 18   | 230   | 7FA15S4-2W230 | 93810725 | 2443099004S | 7FA15S4-3W230 | 93810750 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |            |          | Plastic - Pump End Only |     |      |            |          |
|---------------------------------|-----|------|------------|----------|-------------------------|-----|------|------------|----------|
| GPM                             | HP  | Stg. | Model      | Order    | GPM                     | HP  | Stg. | Model      | Order    |
| 7                               | 1/2 | 7    | 7FA05S4-PE | 93820705 | 7                       | 1/2 | 7    | 7FA05P4-PE | 93790705 |
|                                 | 3/4 | 10   | 7FA07S4-PE | 93820710 |                         | 3/4 | 10   | 7FA07P4-PE | 93790710 |
|                                 | 1   | 13   | 7FA1S4-PE  | 93820715 |                         | 1   | 13   | 7FA1P4-PE  | 93790715 |
|                                 | 1.5 | 18   | 7FA15S4-PE | 93820720 |                         | 1.5 | 18   | 7FA15P4-PE | 93790720 |
|                                 | 2   | 24   | 7FA2S4-PE  | 93820725 |                         |     |      |            |          |
|                                 | 3   | 32   | 7FA3S4-PE  | 93820730 |                         |     |      |            |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

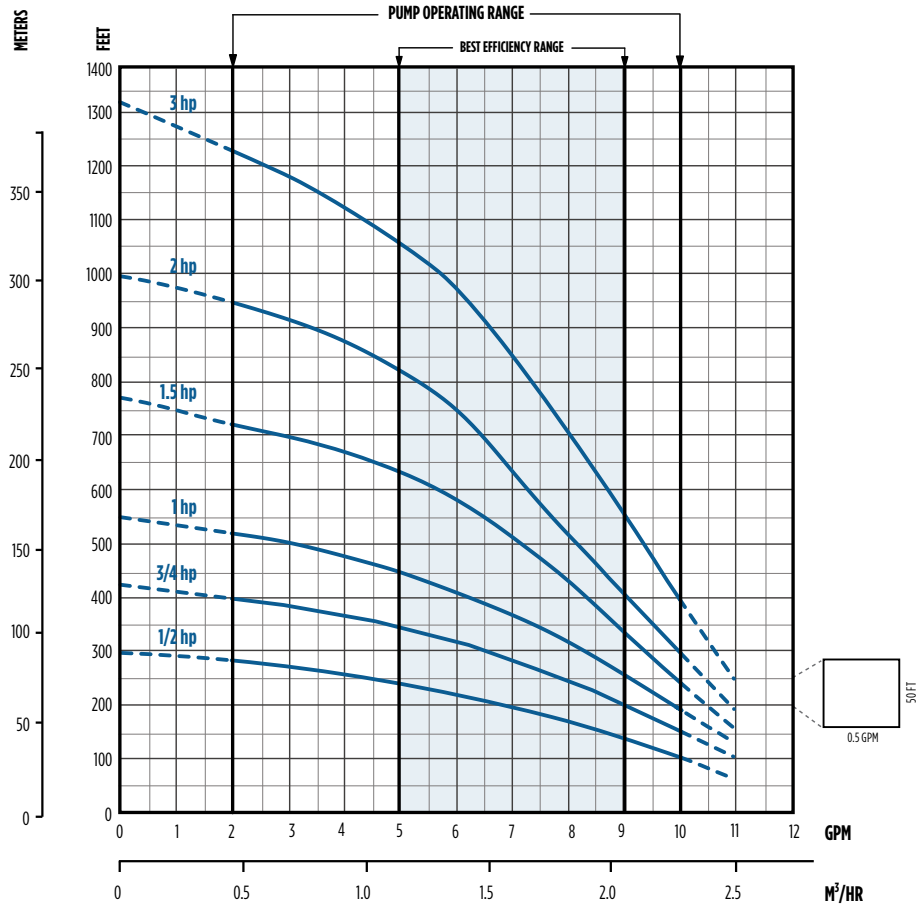
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |  |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| Shut-off PSI |     | 322   | 313 | 305 | 296 | 287 | 279 | 270 | 261 | 253 | 244 | 227 | 218 | 201 | 175 | 158 | 140 | 123 | 114 | 71  | 28  |     |     |      |  |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| Shut-off PSI |     | 421   | 412 | 404 | 395 | 386 | 378 | 369 | 360 | 352 | 343 | 326 | 317 | 300 | 274 | 257 | 239 | 222 | 213 | 170 | 127 | 84  | 40  |      |  |
| 1            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| Shut-off PSI |     | 226   | 218 | 209 | 200 | 192 | 183 | 174 | 166 | 157 | 148 | 131 | 123 | 105 | 79  | 62  | 45  | 27  | 18  |     |     |     |     |      |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" TRI-SEAL PUMPS - 7 GPM

## PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |                 |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |     | 600 | 700 | 800 | 900              | 1000            |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  | Shut-off 765 ft |
|              | 20  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 7   | 6   | 6   | 5   | 2   |                  |                 |
|              | 30  |   |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 6   | 6   | 5   |     |     |                  |                 |
|              | 40  |   |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 6   | 5   | 5   | 3   |     |     |                  |                 |
|              | 50  |   | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 6   | 5   | 5   |     |     |     |     |                  |                 |
|              | 60  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |                  |                 |
|              | 80  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |                  |                 |
| Shut-off PSI |     | 322   | 313 | 305 | 296 | 287 | 279 | 270 | 261 | 253 | 244 | 227 | 218 | 201 | 175 | 158 | 140 | 123 | 114 | 71  | 28  |     |     |                  |                 |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off 995 ft  |                 |
|              | 20  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 6   | 4   |                  |                 |
|              | 30  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |                  |                 |
|              | 40  |   |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 3   |     |                  |                 |
|              | 50  |   |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 3   |     |     |                  |                 |
|              | 60  |   |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 7   | 6   | 4   |     |     |     |     |                  |                 |
|              | 80  | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |     |     |     |                  |                 |
| Shut-off PSI |     | 421   | 412 | 404 | 395 | 386 | 378 | 369 | 360 | 352 | 343 | 326 | 317 | 300 | 274 | 257 | 239 | 222 | 213 | 170 | 127 | 84  | 40  |                  |                 |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off 1310 ft |                 |
|              | 20  |   |     | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |                  |                 |
|              | 30  |   |     | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 6   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |                  |                 |
|              | 40  |   |     | 10  | 9   | 9   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |     |                  |                 |
|              | 50  |   | 10  | 10  | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |     |                  |                 |
|              | 60  | 10  | 10  | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |                  |                 |
|              | 80  | 10  | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |                  |                 |
| Shut-off PSI |     | 523   | 480 | 437 | 394 | 350 | 307 | 264 | 221 | 177 | 134 | 91  | 48  |     |     |     |     |     |     |     |     |     |     |                  |                 |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS - 10 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 10  | 1/2 | 6    | 115   | 10FA05P4-2W115 | 93781005 | 2445049004S | 10FA05P4-3W115 | 93781030 | 2145049004S | 2801044915  |
|     | 1/2 | 6    | 230   | 10FA05P4-2W230 | 93780710 | 2445059004S | 10FA05P4-3W230 | 93781035 | 2145059004S | 2801054915  |
|     | 3/4 | 8    | 230   | 10FA07P4-2W230 | 93781015 | 2445079004S | 10FA07P4-3W230 | 93781040 | 2145079004S | 2801074915  |
|     | 1   | 11   | 230   | 10FA1P4-2W230  | 93781020 | 2445089003S | 10FA1P4-3W230  | 93781045 | 2145089003S | 2801084915  |
|     | 1.5 | 15   | 230   | 10FA15P4-2W230 | 93781025 | 2443099004S | 10FA15P4-3W230 | 93781050 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 10  | 1/2 | 6    | 115   | 10FA05S4-2W115 | 93811005 | 2445049004S | 10FA05S4-3W115 | 93811030 | 2145049004S | 2801044915  |
|     | 1/2 | 6    | 230   | 10FA05S4-2W230 | 93811010 | 2445059004S | 10FA05S4-3W230 | 93811035 | 2145059004S | 2801054915  |
|     | 3/4 | 8    | 230   | 10FA07S4-2W230 | 93811015 | 2445079004S | 10FA07S4-3W230 | 93811040 | 2145079004S | 2801074915  |
|     | 1   | 11   | 230   | 10FA1S4-2W230  | 93811020 | 2445089003S | 10FA1S4-3W230  | 93811045 | 2145089003S | 2801084915  |
|     | 1.5 | 15   | 230   | 10FA15S4-2W230 | 93811025 | 2443099004S | 10FA15S4-3W230 | 93811050 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg. | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 10                              | 1/2 | 6    | 10FA05S4-PE | 93821005 | 10                      | 1/2 | 6    | 10FA05P4-PE | 93791005 |
|                                 | 3/4 | 8    | 10FA07S4-PE | 93821010 |                         | 3/4 | 8    | 10FA07P4-PE | 93791010 |
|                                 | 1   | 11   | 10FA1S4-PE  | 93821015 |                         | 1   | 11   | 10FA1P4-PE  | 93791015 |
|                                 | 1.5 | 15   | 10FA15S4-PE | 93821020 |                         | 1.5 | 15   | 10FA15P4-PE | 93791020 |
|                                 | 2   | 18   | 10FA2S4-PE  | 93821025 |                         |     |      |             |          |
|                                 | 3   | 24   | 10FA3S4-PE  | 93821030 |                         |     |      |             |          |
|                                 | 5   | 39   | 10FA5S4-PE  | 93821035 |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

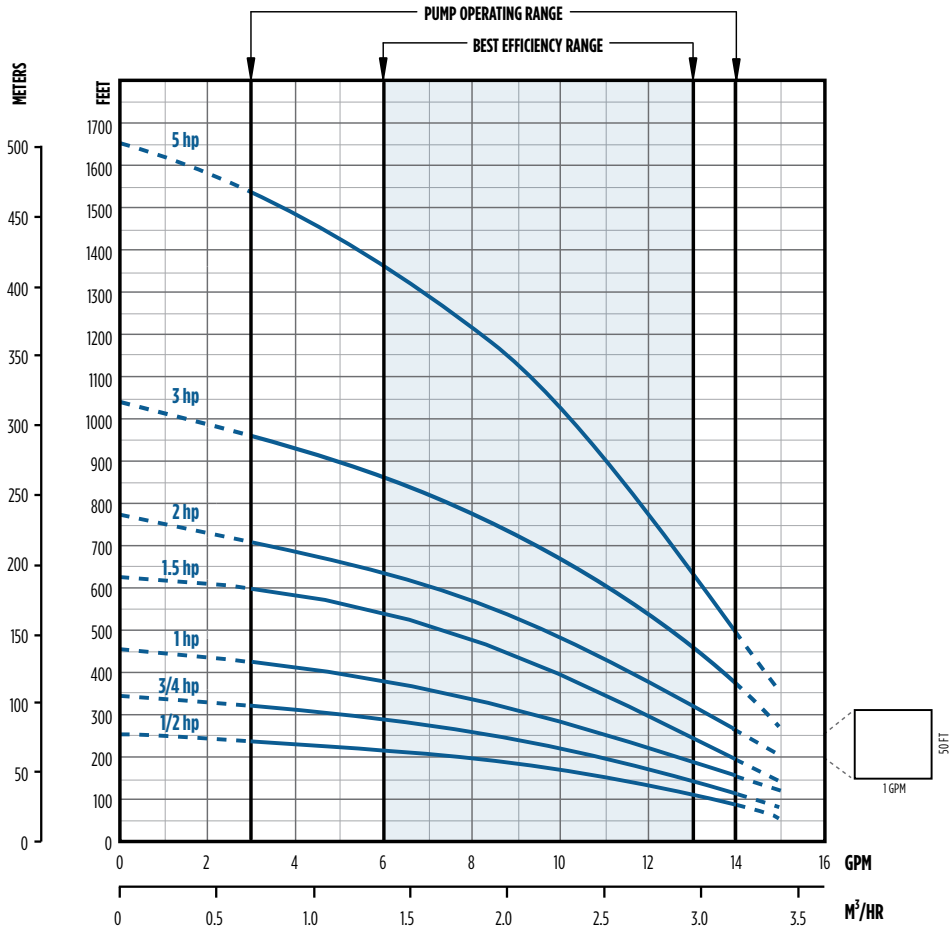
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 1/2          | 0   |   |     |     | 14  | 13  | 12  | 11  | 10  | 9   | 7   |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  | 14  | 13  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 30  | 13  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 40  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 50  | 12  | 11  | 9   | 8   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 60  | 11  | 10  | 7   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 80  | 8   | 6   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 97  | 88  | 80  | 71  | 62  | 54  | 45  | 36  | 28  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3/4          | 0   |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 7   | 8   | 4   |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   | 14  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 6   | 4   |     |     |     |     |     |     |     |     |     |     |      |
|              | 30  | 14  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 3   |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 40  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 50  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 60  | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 80  | 11  | 10  | 9   | 8   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 137   | 129 | 120 | 111 | 103 | 94  | 85  | 77  | 68  | 59  | 42  | 34  | 16  |     |     |     |     |     |     |     |     |     |      |
| 1            | 0   |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 7   | 4   |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     | 14  | 13  | 12  | 11  | 11  | 9   | 9   | 7   | 3   |     |     |     |     |     |     |     |     |     |     |      |
|              | 30  |   |     |     | 14  | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 6   |     |     |     |     |     |     |     |     |     |      |
|              | 40  |   |     | 14  | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   |     |     |     |     |     |     |     |     |     |      |
|              | 50  |   | 14  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |     |     |     |     |      |
|              | 60  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |      |
|              | 80  | 12  | 12  | 11  | 10  | 10  | 9   | 8   | 7   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 183   | 174 | 157 | 148 | 140 | 131 | 123 | 114 | 105 | 97  | 79  | 71  | 53  | 27  | 10  |     |     |     |     |     |     |     |      |
| 1.5          | 0   |   |     |     |     |     | 14  | 13  | 13  | 13  | 12  | 12  | 10  | 9   | 9   | 8   | 7   |     |     |     |     |     |     |      |
|              | 20  |   |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 9   | 8   | 7   | 6   | 5   |     |     |     |     |     |      |
|              | 30  |   |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 8   | 8   | 6   | 5   | 4   |     |     |     |      |
|              | 40  |   |     |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 10  | 10  | 8   | 7   | 6   | 4   |     |     |     |     |     |      |
|              | 50  |   |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 10  | 10  | 9   | 8   | 6   | 5   | 3   |     |     |     |     |     |      |
|              | 60  |   | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 7   | 6   | 4   |     |     |     |     |     |     |     |      |
|              | 80  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 9   | 8   | 6   | 3   |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 257   | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93  | 75  | 41  | 32  |     |     |     |     |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" TRI-SEAL PUMPS - 10 GPM

## PERFORMANCE



| HP | PSI          | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |     |     |     |
| 2  | 0            |   |     |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 10  | 9   | 6   |     |     |     |
|    | 20           |   |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 9   | 8   | 5   |     |     |     |
|    | 30           |   |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 10  | 10  | 9   | 8   | 8   | 4   |     |     |     |
|    | 40           |   |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 9   | 9   | 8   | 7   | 3   |     |     |     |
|    | 50           |   |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |
|    | 60           |   |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   | 5   |     |     |     |     |
|    | 80           |   | 14  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 4   | 4   |     |     |     |     |     |
|    | Shut-off PSI | 324   | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125 | 117 | 73  |     |     |
| 3  | 0            |   |     |     |     |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 9   | 7   | 5   |     |
|    | 20           |   |     |     |     |     |     |     |     |     |     | 14  | 13  | 12  | 12  | 12  | 11  | 10  | 8   | 6   | 3   |     |
|    | 30           |   |     |     |     |     |     |     |     |     | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 8   | 5   |     |     |
|    | 40           |   |     |     |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 9   | 7   | 4   |     |
|    | 50           |   |     |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 9   | 7   | 4   |     |
|    | 60           |   |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 6   | 3   |     |
|    | 80           |   |     |     | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   |     |     |     |
|    | Shut-off PSI | 438   | 430 | 421 | 413 | 404 | 395 | 387 | 378 | 369 | 361 | 343 | 335 | 317 | 291 | 274 | 257 | 240 | 231 | 188 | 144 | 101 |
| 5  | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|    | 20           |   |     |     | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 4   |     |     |     |     |     |     |     |
|    | 30           |   |     |     | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 4   |     |     |     |     |     |     |     |
|    | 40           |   |     |     | 14  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |
|    | 50           |   |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 9   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |
|    | 60           |   |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 4   |     |     |     |     |     |     |     |     |
|    | 80           |   | 14  | 14  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |
|    | Shut-off PSI | 670   | 626 | 583 | 540 | 497 | 453 | 410 | 367 | 324 | 280 | 237 | 194 | 151 | 107 |     |     |     |     |     |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS - 15 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 15  | 1/2 | 4    | 115   | 15FA05P4-2W115 | 93781505 | 2445049004S | 15FA05P4-3W115 | 93781530 | 2145049004S | 2801044915  |
|     | 1/2 | 4    | 230   | 15FA05P4-2W230 | 93781510 | 2445059004S | 15FA05P4-3W230 | 93781535 | 2145059004S | 2801054915  |
|     | 3/4 | 6    | 230   | 15FA07P4-2W230 | 93781515 | 2445079004S | 15FA07P4-3W230 | 93781540 | 2145079004S | 2801074915  |
|     | 1   | 8    | 230   | 15FA1P4-2W230  | 93781520 | 2445089003S | 15FA1P4-3W230  | 93781545 | 2145089003S | 2801084915  |
|     | 1.5 | 11   | 230   | 15FA15P4-2W230 | 93781525 | 2443099004S | 15FA15P4-3W230 | 93781550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 15  | 1/2 | 4    | 115   | 15FA05S4-2W115 | 93811505 | 2445049004S | 15FA05S4-3W115 | 93811530 | 2145049004S | 2801044915  |
|     | 1/2 | 4    | 230   | 15FA05S4-2W230 | 93811510 | 2445059004S | 15FA05S4-3W230 | 93811535 | 2145059004S | 2801054915  |
|     | 3/4 | 6    | 230   | 15FA07S4-2W230 | 93811515 | 2445079004S | 15FA07S4-3W230 | 93811540 | 2145079004S | 2801074915  |
|     | 1   | 8    | 230   | 15FA1S4-2W230  | 93811520 | 2445089003S | 15FA1S4-3W230  | 93811545 | 2145089003S | 2801084915  |
|     | 1.5 | 11   | 230   | 15FA15S4-2W230 | 93811525 | 2443099004S | 15FA15S4-3W230 | 93811550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg. | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 15                              | 1/2 | 4    | 15FA05S4-PE | 93821505 | 15                      | 1/2 | 4    | 15FA05P4-PE | 93791505 |
|                                 | 3/4 | 6    | 15FA07S4-PE | 93821510 |                         | 3/4 | 6    | 15FA07P4-PE | 93791510 |
|                                 | 1   | 8    | 15FA1S4-PE  | 93821515 |                         | 1   | 8    | 15FA1P4-PE  | 93791515 |
|                                 | 1.5 | 11   | 15FA15S4-PE | 93821520 |                         | 1.5 | 11   | 15FA15P4-PE | 93791520 |
|                                 | 2   | 14   | 15FA2S4-PE  | 93821525 |                         |     |      |             |          |
|                                 | 3   | 19   | 15FA3S4-PE  | 93821530 |                         |     |      |             |          |
|                                 | 5   | 31   | 15FA5S4-PE  | 93821535 |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

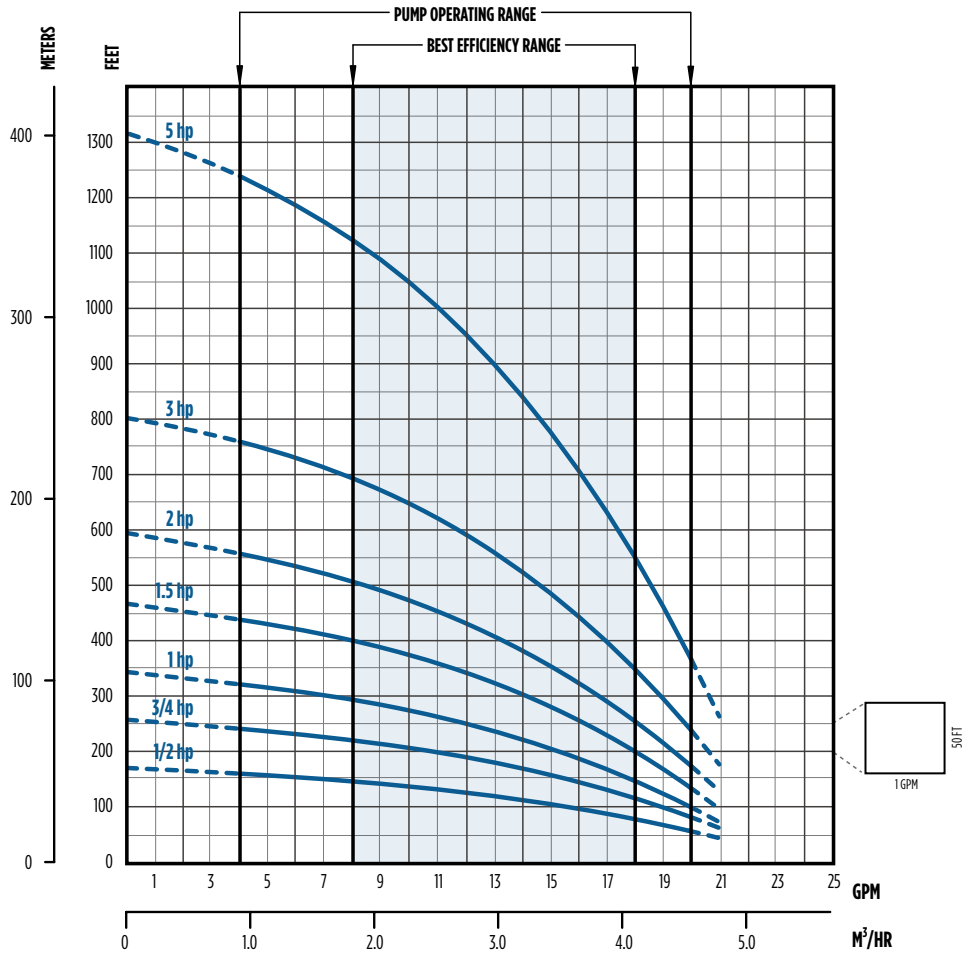
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP  | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |  |
| 1/2 | 0            |   |     |     | 20  | 18  | 16  | 13  | 9   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 20           | 19  | 17  | 15  | 12  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 30           | 17  | 14  | 11  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 40           | 14  | 11  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 50           | 10  | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 60           | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | Shut-off PSI | 65  | 56  | 48  | 39  | 30  | 22  | 13  | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 3/4 | 0            |   |     |     | 20  | 19  | 18  | 16  | 15  | 13  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 20           |   | 20  | 19  | 17  | 16  | 14  | 12  | 10  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 30           | 20  | 18  | 17  | 16  | 14  | 12  | 10  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 40           | 18  | 17  | 15  | 14  | 12  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 50           | 17  | 15  | 13  | 11  | 9   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 60           | 15  | 13  | 11  | 8   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 80           | 10  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | Shut-off PSI | 103   | 94  | 85  | 77  | 68  | 59  | 51  | 42  | 33  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 1   | 0            |   |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 13  | 11  | 7   |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 20           |   |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 9   | 6   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 30           | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 10  | 6   |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 40           | 19  | 19  | 18  | 17  | 16  | 15  | 13  | 12  | 10  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 50           | 18  | 18  | 17  | 16  | 14  | 13  | 12  | 10  | 8   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 60           | 17  | 16  | 15  | 14  | 13  | 11  | 10  | 7   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 80           | 15  | 14  | 12  | 11  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | Shut-off PSI | 140   | 131 | 123 | 114 | 105 | 97  | 88  | 79  | 71  | 62  | 45  | 36  | 19  |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 1.5 | 0            |   |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 11  | 8   | 4   |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 20           |   |     |     | 20  | 19  | 18  | 18  | 17  | 16  | 15  | 14  | 12  | 7   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 30           |   |     |     | 20  | 20  | 19  | 18  | 18  | 17  | 16  | 15  | 14  | 13  | 10  | 5   |     |     |     |     |     |     |     |      |      |      |  |
|     | 40           |   |     | 20  | 20  | 19  | 18  | 18  | 17  | 16  | 15  | 15  | 13  | 11  | 9   |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 50           | 20  | 19  | 19  | 18  | 17  | 17  | 16  | 15  | 14  | 13  | 11  | 10  | 7   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 60           | 19  | 19  | 18  | 17  | 17  | 16  | 15  | 14  | 13  | 12  | 10  | 8   | 4   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | 80           | 18  | 17  | 16  | 16  | 15  | 14  | 13  | 12  | 11  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|     | Shut-off PSI | 193   | 185 | 176 | 167 | 159 | 150 | 141 | 133 | 124 | 115 | 98  | 89  | 72  | 46  | 29  | 11  |     |     |     |     |     |     |      |      |      |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" TRI-SEAL PUMPS - 15 GPM

## PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off PSI |     |     |     |     |     |     |      |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|------|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 |              | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |      |      |
|              | 20  |   |     |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 10  | 9            | 8   | 6   |     |     |     |     |      |      |
|              | 30  |   |     |     |     |     |     |     |     |     | 14  | 13  | 12  | 11  | 10  | 9   | 8   | 7            | 5   |     |     |     |     |     |      |      |
|              | 40  |   |     |     |     |     |     |     | 14  |     | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6            | 4   |     |     |     |     |     |      |      |
|              | 50  |   |     |     |     |     |     | 14  | 13  |     | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5            | 3   |     |     |     |     |     |      |      |
|              | 60  |   |     |     |     | 14  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   | 3   |              |     |     |     |     |     |     |      |      |
|              | 80  |   |     |     | 14  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   | 3   |     |              |     |     |     |     |     |     |      |      |
| Shut-off PSI |     | 324   | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125          | 117 | 73  |     |     |     |     |      |      |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |      |      |
|              | 20  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13           | 10  | 8   |     |     |     |     |      |      |
|              | 30  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13           | 9   | 5   |     |     |     |     |      |      |
|              | 40  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13           | 12  | 8   |     |     |     |     |      |      |
|              | 50  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13           | 11  | 7   |     |     |     |     |      |      |
|              | 60  |   |     |     |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 12  | 11  | 10  | 5            |     |     |     |     |     |     |      |      |
|              | 80  | 20  | 20  | 20  | 20  | 19  | 19  | 18  | 17  | 16  | 15  | 13  | 12  | 11  | 9   | 8   |     |              |     |     |     |     |     |     |      |      |
| Shut-off PSI |     | 339   | 330 | 321 | 313 | 304 | 295 | 287 | 278 | 269 | 261 | 243 | 235 | 217 | 191 | 174 | 157 | 139          | 131 | 87  | 44  |     |     |     |      |      |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |      |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 19  | 19  | 18           | 17  | 16  | 15  | 14  | 12  | 10  | 7    | 4    |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 19  | 19  | 18           | 17  | 16  | 15  | 14  | 12  | 9   | 7    |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 20  | 19  | 18           | 17  | 16  | 15  | 14  | 13  | 11  | 9    | 6    |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 20  | 19  | 18           | 17  | 16  | 15  | 14  | 13  | 11  | 8    | 5    |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 20  | 19  | 18           | 17  | 16  | 15  | 14  | 12  | 10  | 8    | 4    |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     | 20  | 20  | 20  | 19  | 18           | 17  | 16  | 15  | 13  | 11  | 9   | 6    |      |
| Shut-off PSI |     | 561   | 553 | 544 | 535 | 527 | 518 | 509 | 501 | 492 | 483 | 466 | 457 | 440 | 414 | 397 | 379 | 362          | 353 | 310 | 267 | 224 | 180 | 137 | 94   | 50   |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS - 20 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 20  | 3/4 | 5    | 230   | 20FA07P4-2W230 | 93782015 | 2445079004S | 20FA07P4-3W230 | 93782040 | 2145079004S | 2801074915  |
|     | 1   | 7    | 230   | 20FA1P4-2W230  | 93782020 | 2445089003S | 20FA1P4-3W230  | 93782045 | 2145089003S | 2801084915  |
|     | 1.5 | 10   | 230   | 20FA15P4-2W230 | 93782025 | 2443099004S | 20FA15P4-3W230 | 93782050 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 20  | 3/4 | 5    | 230   | 20FA07S4-2W230 | 93812015 | 2445079004S | 20FA07S4-3W230 | 93812040 | 2145079004S | 2801074915  |
|     | 1   | 7    | 230   | 20FA1S4-2W230  | 93812020 | 2445089003S | 20FA1S4-3W230  | 93812045 | 2145089003S | 2801084915  |
|     | 1.5 | 10   | 230   | 20FA15S4-2W230 | 93812025 | 2443099004S | 20FA15S4-3W230 | 93812050 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |             |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|-------------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg.        | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 20                              | 3/4 | 5           | 20FA07S4-PE | 93822010 | 20                      | 3/4 | 5    | 20FA07P4-PE | 93792010 |
|                                 | 1   | 7           | 20FA1S4-PE  | 93822015 |                         | 1   | 7    | 20FA1P4-PE  | 93792015 |
|                                 | 1.5 | 10          | 20FA15S4-PE | 93822020 |                         | 1.5 | 10   | 20FA15P4-PE | 93792020 |
|                                 | 2   | 12          | 20FA2S4-PE  | 93822025 |                         |     |      |             |          |
|                                 | 3   | 16          | 20FA3S4-PE  | 93822030 |                         |     |      |             |          |
|                                 | 5   | 26          | 20FA5S4-PE  | 93822035 |                         |     |      |             |          |
|                                 | 7.5 | 39          | 20FA7S4-PE  | 93822040 |                         |     |      |             |          |
| 10                              | 52  | 20FA10S4-PE | 93822045    |          |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

### CAPACITIES IN U.S. GALLONS PER MINUTE

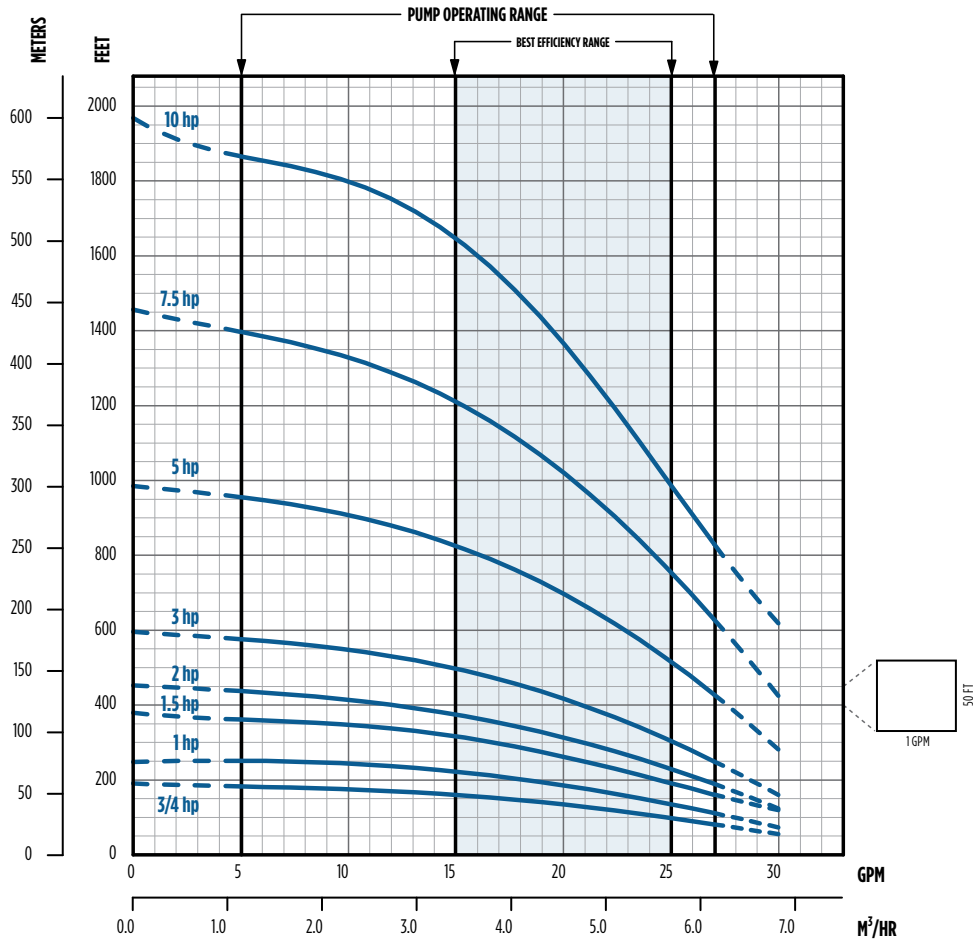
| HP  | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off |     |     |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 |          | 800 | 900 |
| 3/4 | 0            |   |     |     | 24  | 22  | 21  | 18  | 14  |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 20           |   | 23  | 21  | 19  | 17  | 12  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 30           | 23  | 21  | 19  | 17  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 40           | 21  | 19  | 17  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 50           | 19  | 16  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 60           | 14  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | Shut-off PSI | 74  | 65  | 56  | 48  | 39  | 30  | 22  | 13  |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
| 1   | 0            |   |     |     | 26  | 25  | 23  | 20  | 18  | 11  |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 20           |   |     | 27  | 26  | 24  | 22  | 20  | 18  | 15  | 8   |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 30           |   | 27  | 26  | 24  | 22  | 19  | 17  | 14  | 7   |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 40           | 27  | 25  | 23  | 21  | 19  | 17  | 13  |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 50           | 25  | 23  | 21  | 19  | 16  | 12  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 60           | 23  | 21  | 18  | 16  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | Shut-off PSI | 100   | 91  | 83  | 74  | 66  | 57  | 48  | 40  | 31  | 22  | 5   |     |     |     |     |     |     |     |     |     |          |     |     |
| 1.5 | 0            |   |     |     |     | 27  | 26  | 24  | 22  | 20  | 17  | 6   |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 20           |   |     |     |     | 27  | 25  | 24  | 22  | 21  | 18  | 16  | 10  |     |     |     |     |     |     |     |     |          |     |     |
|     | 30           |   |     |     |     | 26  | 25  | 24  | 22  | 21  | 20  | 16  | 13  |     |     |     |     |     |     |     |     |          |     |     |
|     | 40           |   |     |     | 26  | 25  | 23  | 22  | 21  | 19  | 18  | 13  | 8   |     |     |     |     |     |     |     |     |          |     |     |
|     | 50           |   | 27  | 26  | 25  | 23  | 22  | 21  | 19  | 17  | 15  | 7   |     |     |     |     |     |     |     |     |     |          |     |     |
|     | 60           | 27  | 26  | 24  | 23  | 22  | 20  | 19  | 17  | 15  | 11  |     |     |     |     |     |     |     |     |     |     |          |     |     |
|     | Shut-off PSI | 156   | 147 | 138 | 130 | 121 | 112 | 104 | 95  | 86  | 78  | 60  | 52  | 34  | 8   |     |     |     |     |     |     |          |     |     |
| 2   | 0            |   |     |     |     |     |     |     |     | 24  | 23  | 20  | 16  | 12  |     |     |     |     |     |     |     |          |     |     |
|     | 20           |   |     |     |     |     |     |     |     | 24  | 21  | 20  | 17  | 12  |     |     |     |     |     |     |     |          |     |     |
|     | 30           |   |     |     |     |     |     |     | 24  | 23  | 22  | 20  | 19  | 16  |     |     |     |     |     |     |     |          |     |     |
|     | 40           |   |     |     |     |     |     | 24  | 23  | 22  | 21  | 19  | 17  | 14  |     |     |     |     |     |     |     |          |     |     |
|     | 50           |   |     |     |     |     | 24  | 23  | 22  | 20  | 19  | 16  | 14  | 10  |     |     |     |     |     |     |     |          |     |     |
|     | 60           |   |     |     |     | 24  | 23  | 22  | 20  | 19  | 18  | 14  | 12  |     |     |     |     |     |     |     |     |          |     |     |
|     | Shut-off PSI | 187   | 179 | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 110 | 92  | 84  | 66  | 40  | 23  |     |     |     |     |     |          |     |     |
| 3   | 0            |   |     |     |     |     |     |     |     |     | 24  | 22  | 20  | 18  | 16  | 14  |     |     |     |     |     |          |     |     |
|     | 20           |   |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 17  | 15  | 12  | 10  |     |     |     |     |          |     |     |
|     | 30           |   |     |     |     |     |     |     |     |     | 24  | 23  | 21  | 18  | 16  | 13  | 10  |     |     |     |     |          |     |     |
|     | 40           |   |     |     |     |     |     |     |     |     | 24  | 23  | 22  | 20  | 17  | 14  | 11  |     |     |     |     |          |     |     |
|     | 50           |   |     |     |     |     |     |     |     | 24  | 24  | 22  | 21  | 19  | 16  | 13  |     |     |     |     |     |          |     |     |
|     | 60           |   |     |     |     |     |     |     | 24  | 24  | 23  | 21  | 20  | 18  | 14  | 10  |     |     |     |     |     |          |     |     |
|     | Shut-off PSI | 251   | 242 | 234 | 225 | 216 | 208 | 199 | 190 | 182 | 173 | 156 | 147 | 130 | 104 | 87  | 69  | 52  | 43  |     |     |          |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 4" TRI-SEAL PUMPS - 20 GPM

## PERFORMANCE



| HP  | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 5   | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 16  |     |      |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 24  | 21  | 18  |     |      |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 17  |     |     |      |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 22  | 22  | 17  | 15  |     |      |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 21  | 18  | 14  |     |      |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 22  | 21  | 20  | 16  | 10  |      |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 22  | 21  | 20  | 16  | 10   |
|     | Shut-off PSI | 416   | 408 | 399 | 390 | 382 | 373 | 364 | 356 | 347 | 339 | 321 | 313 | 295 | 269 | 252 | 235 | 217 | 209 | 165 | 122 | 79  |     |      |
| 7.5 | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 80           | 27  | 27  | 26  | 24  | 23  | 21  | 19  | 16  | 12  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | Shut-off PSI | 440   | 423 | 414 | 371 | 327 | 284 | 241 | 197 | 154 | 111 | 68  | 24  |     |     |     |     |     |     |     |     |     |     |      |
| 10  | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|     | Shut-off PSI | 662   | 644 | 636 | 592 | 549 | 506 | 462 | 419 | 376 | 333 | 289 | 246 | 203 | 159 | 116 | 73  |     |     |     |     |     |     |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" TRI-SEAL PUMPS - 25 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 25  | 1   | 6    | 230   | 25FA1P4-2W230  | 93782520 | 2445089003S | 25FA1P4-3W230  | 93782545 | 2145089003S | 2801084915  |
|     | 1.5 | 8    | 230   | 25FA15P4-2W230 | 93782525 | 2443099004S | 25FA15P4-3W230 | 93782550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 25  | 1   | 6    | 230   | 25FA1S4-2W230  | 93812520 | 2445089003S | 25FA1S4-3W230  | 93812545 | 2145089003S | 2801084915  |
|     | 1.5 | 8    | 230   | 25FA15S4-2W230 | 93812525 | 2443099004S | 25FA15S4-3W230 | 93812550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |             |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|-------------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg.        | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 25                              | 1   | 6           | 25FA1S4-PE  | 93822515 | 25                      | 1   | 6    | 25FA1P4-PE  | 93792515 |
|                                 | 1.5 | 8           | 25FA15S4-PE | 93822520 |                         | 1.5 | 8    | 25FA15P4-PE | 93792520 |
|                                 | 2   | 10          | 25FA2S4-PE  | 93822525 |                         |     |      |             |          |
|                                 | 3   | 14          | 25FA3S4-PE  | 93822530 |                         |     |      |             |          |
|                                 | 5   | 23          | 25FA5S4-PE  | 93822535 |                         |     |      |             |          |
|                                 | 7.5 | 35          | 25FA7S4-PE  | 93822540 |                         |     |      |             |          |
| 10                              | 44  | 25FA10S4-PE | 93822545    |          |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

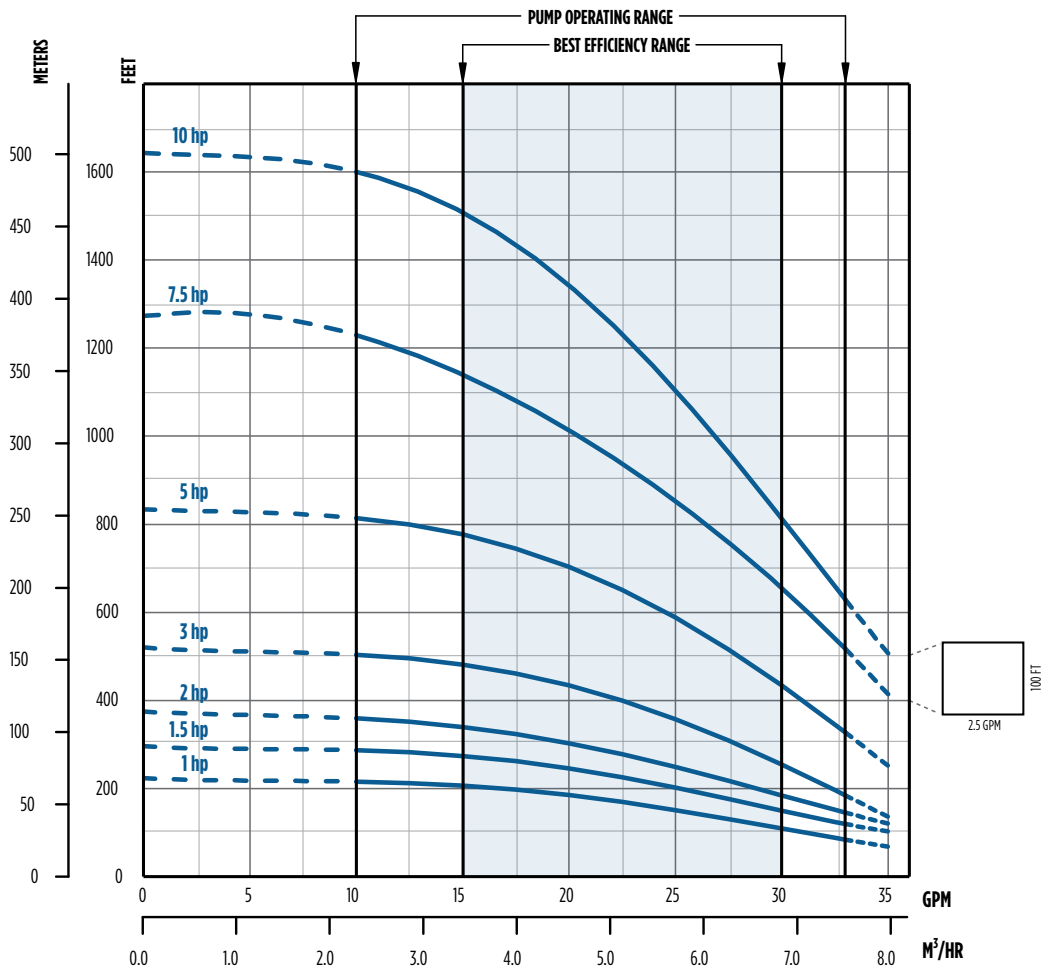
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|--------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|------------------|------------------|
|              |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 |  | 800 | 900              | 1000             |
| 1            | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  | Shut-off 222 ft. |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30           | 32  | 29  | 27  | 25  | 22  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40           | 29  | 27  | 25  | 22  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50           | 26  | 24  | 21  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60           | 24  | 21  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | Shut-off PSI | 87  | 79  | 70  | 61  | 53  | 44  | 35  | 27  | 18  | 10  |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 1.5          | 0            |   |     |     |     |     | 33  | 31  | 29  | 27  | 25  | 21  | 19  |     |     |     |     |     |     |     |     |  |     | Shut-off 297 ft. |                  |
|              | 20           |   |     |     |     |     | 30  | 28  | 26  | 24  | 22  | 19  |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30           |   |     |     | 32  | 30  | 28  | 26  | 24  | 22  | 19  | 16  |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40           | 33  | 32  | 29  | 27  | 25  | 23  | 21  | 19  | 15  |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50           | 32  | 29  | 27  | 25  | 23  | 21  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60           | 29  | 27  | 25  | 23  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 80           | 24  | 22  | 20  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI | 120          | 111   | 103 | 94  | 85  | 77  | 68  | 59  | 51  | 42  | 25  | 16  |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 2            | 0            |   |     |     |     |     |     | 33  | 32  | 30  | 28  | 25  | 24  | 20  |     |     |     |     |     |     |     |  |     | Shut-off 375 ft. |                  |
|              | 20           |   |     |     |     |     | 31  | 29  | 28  | 26  | 25  | 21  | 20  |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30           |   |     |     | 34  | 33  | 31  | 29  | 28  | 26  | 24  | 23  | 19  | 17  |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40           |   |     | 34  | 33  | 31  | 29  | 28  | 26  | 24  | 23  | 21  | 17  |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50           | 33  | 32  | 30  | 29  | 27  | 26  | 24  | 22  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60           | 32  | 30  | 28  | 27  | 26  | 24  | 22  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 80           | 28  | 26  | 25  | 23  | 21  | 20  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI | 154          | 145   | 136 | 128 | 119 | 110 | 102 | 93  | 84  | 76  | 58  | 50  | 32  |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 3            | 0            |   |     |     |     |     |     |     | 33  | 32  | 30  | 29  | 28  | 24  | 22  | 19  | 15  |     |     |     |     |  |     | Shut-off 539 ft. |                  |
|              | 20           |   |     |     |     |     | 33  | 32  | 31  | 30  | 28  | 27  | 25  | 22  | 19  |     |     |     |     |     |     |  |     |                  |                  |
|              | 30           |   |     |     |     | 33  | 32  | 31  | 30  | 29  | 27  | 26  | 24  | 20  |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40           |   |     |     | 33  | 32  | 31  | 30  | 29  | 28  | 26  | 25  | 22  | 18  |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50           |   |     | 33  | 32  | 31  | 31  | 30  | 29  | 28  | 27  | 24  | 23  | 21  | 15  |     |     |     |     |     |     |  |     |                  |                  |
|              | 60           |   | 33  | 32  | 31  | 31  | 30  | 29  | 28  | 26  | 25  | 23  | 22  | 19  |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 80           | 32  | 31  | 30  | 29  | 28  | 27  | 26  | 25  | 24  | 23  | 20  | 19  | 15  |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI | 216          | 207   | 199 | 190 | 181 | 173 | 164 | 155 | 147 | 138 | 121 | 112 | 95  | 69  | 52  | 34  | 17  |     |     |     |     |  |     |                  |                  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" TRI-SEAL PUMPS - 25 GPM

## PERFORMANCE



| HP           | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|--------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|
|              |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |    |
| 5            | 0            |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 32  | 31  | 30  | 28  | 28  | 24  | 20  |     |     |      |    |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     | 33  | 32  | 30  | 30  | 28  | 27  | 26  | 22  | 17  |     |     |      |    |
|              | 30           |   |     |     |     |     |     |     |     |     |     | 33  | 33  | 31  | 30  | 28  | 27  | 26  | 25  | 21  | 15  |     |     |      |    |
|              | 40           |   |     |     |     |     |     |     |     |     | 33  | 32  | 32  | 31  | 29  | 28  | 27  | 25  | 24  | 20  |     |     |     |      |    |
|              | 50           |   |     |     |     |     |     |     | 33  | 33  | 32  | 31  | 30  | 28  | 27  | 25  | 24  | 23  | 19  |     |     |     |     |      |    |
|              | 60           |   |     |     |     |     | 33  | 33  | 32  | 31  | 31  | 30  | 28  | 26  | 25  | 23  | 22  | 18  |     |     |     |     |     |      |    |
|              | 80           |   |     |     |     | 33  | 33  | 31  | 31  | 30  | 29  | 28  | 26  | 25  | 23  | 21  | 20  |     |     |     |     |     |     |      |    |
|              | Shut-off PSI | 352   | 343 | 326 | 317 | 309 | 300 | 291 | 283 | 274 | 257 | 248 | 231 | 205 | 187 | 170 | 153 | 144 | 101 | 58  |     |     |     |      |    |
|              | 7.5          | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
| 20           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 32  | 31  | 28  | 25  | 22  | 19  |     |     |     |      |    |
| 30           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 33  | 31  | 30  | 28  | 27  | 26  | 25  | 21  |     |      |    |
| 40           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 32  | 32  | 31  | 29  | 27  | 24  | 21  | 17  |     |      |    |
| 50           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 33  | 32  | 31  | 29  | 27  | 24  | 21  | 17  |     |      |    |
| 60           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 33  | 32  | 31  | 29  | 26  | 23  | 20  | 17  |     |      |    |
| 80           |              |   |     |     |     |     |     |     |     |     |     |     |     | 33  | 32  | 32  | 31  | 30  | 28  | 26  | 25  | 23  | 21  | 20   | 16 |
| Shut-off PSI |              | 425   | 399 | 382 | 364 | 347 | 338 | 295 | 252 | 208 | 165 | 122 | 78  | 35  |     |     |     |     |     |     |     |     |     |      |    |
| 10           |              | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |
|              | Shut-off PSI | 581   | 555 | 538 | 520 | 503 | 494 | 451 | 408 | 365 | 321 | 278 | 235 | 191 | 148 | 105 | 61  | 18  |     |     |     |     |     |      |    |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS

The standard FPS Series Five submersible pump features unique hydraulics that improve efficiency and minimize wear even when pumping abrasives. Discharge and motor brackets are available in thermoplastic or stainless steel with a removable check valve system. Available in 5, 7, 10, 15, 20, and 25 gpm, 1/2 - 5 horsepower. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

### FEATURES

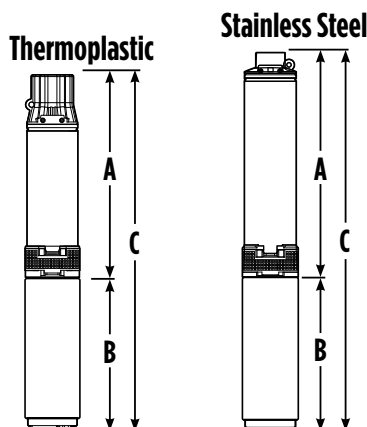
- 6 performance ranges: 5, 7, 10, 15, 20, and 25 gpm
- Horsepower ranges: 1/2 - 5
- Discharge head and motor bracket produced with industry proven, engineered materials. Available in 300 Series stainless steel or high quality thermoplastic resins.
- Large wrench flat area on the discharge head for ease of installation
- Dry run designed top bearing positively supports the 300 Series stainless steel 7/16" hex shaft
- Removable internal check valve
- Powered by Franklin Electric corrosion-resistant super stainless 4" submersible motors with lightning protection
- Maximum water temperature with proper flow is 120 °F/49 °C. Consult factory for details



UL 778  
 CSA 108  
 NSF/ANSI 372  
 NSF/ANSI 61 (Pump end only)

## 4" SERIES V PUMPS

### DIMENSIONS



| Plastic with 2-Wire Motors |     |        |       |       |       |        |         |
|----------------------------|-----|--------|-------|-------|-------|--------|---------|
| GPM                        | HP  | Stages | A     | B     | C     | PE Wt. | PMA Wt. |
| 5                          | 1/2 | 8      | 14.12 | 9.51  | 23.63 | 8      | 26      |
|                            | 3/4 | 12     | 17.41 | 10.64 | 28.05 | 9      | 30      |
|                            | 1   | 15     | 19.87 | 11.73 | 31.60 | 10     | 34      |
|                            | 1.5 | 21     | 24.81 | 15.10 | 39.91 | 12     | 43      |

|   |     |    |       |       |       |    |    |
|---|-----|----|-------|-------|-------|----|----|
| 7 | 1/2 | 7  | 13.30 | 9.51  | 22.81 | 7  | 25 |
|   | 3/4 | 10 | 15.76 | 10.64 | 26.40 | 8  | 29 |
|   | 1   | 13 | 18.23 | 11.73 | 29.96 | 10 | 34 |
|   | 1.5 | 18 | 22.34 | 15.10 | 37.44 | 11 | 42 |

|    |     |    |       |       |       |    |    |
|----|-----|----|-------|-------|-------|----|----|
| 10 | 1/2 | 6  | 12.97 | 9.51  | 22.48 | 7  | 25 |
|    | 3/4 | 8  | 14.69 | 10.64 | 25.33 | 8  | 29 |
|    | 1   | 11 | 17.44 | 11.73 | 29.17 | 9  | 33 |
|    | 1.5 | 15 | 21.06 | 15.10 | 36.16 | 10 | 41 |

|    |     |    |       |       |       |   |    |
|----|-----|----|-------|-------|-------|---|----|
| 15 | 1/2 | 4  | 11.45 | 9.51  | 20.96 | 6 | 24 |
|    | 3/4 | 6  | 12.97 | 10.64 | 23.61 | 7 | 28 |
|    | 1   | 8  | 14.69 | 11.73 | 26.42 | 8 | 32 |
|    | 1.5 | 11 | 17.44 | 15.10 | 32.54 | 9 | 40 |

|    |     |    |       |       |       |   |    |
|----|-----|----|-------|-------|-------|---|----|
| 20 | 3/4 | 5  | 13.65 | 10.64 | 24.29 | 6 | 28 |
|    | 1   | 7  | 16.10 | 11.73 | 26.42 | 8 | 32 |
|    | 1.5 | 10 | 19.77 | 15.10 | 34.87 | 8 | 39 |

|    |     |   |       |       |       |   |    |
|----|-----|---|-------|-------|-------|---|----|
| 25 | 1   | 6 | 14.88 | 11.73 | 26.61 | 7 | 31 |
|    | 1.5 | 8 | 17.32 | 15.10 | 32.42 | 8 | 39 |

| Plastic with 3-Wire Motors |     |        |       |       |       |        |         |
|----------------------------|-----|--------|-------|-------|-------|--------|---------|
| GPM                        | HP  | Stages | A     | B     | C     | PE Wt. | PMA Wt. |
| 5                          | 1/2 | 8      | 14.12 | 9.51  | 23.63 | 8      | 26      |
|                            | 3/4 | 12     | 17.41 | 10.64 | 28.05 | 9      | 30      |
|                            | 1   | 15     | 19.87 | 11.73 | 31.60 | 10     | 34      |
|                            | 1.5 | 21     | 24.81 | 13.60 | 38.41 | 12     | 40      |

|   |     |    |       |       |       |    |    |
|---|-----|----|-------|-------|-------|----|----|
| 7 | 1/2 | 7  | 13.30 | 9.51  | 22.81 | 7  | 26 |
|   | 3/4 | 10 | 15.76 | 10.64 | 26.40 | 8  | 29 |
|   | 1   | 13 | 18.23 | 11.73 | 29.96 | 10 | 34 |
|   | 1.5 | 18 | 22.34 | 13.60 | 35.94 | 11 | 39 |

|    |     |    |       |       |       |    |    |
|----|-----|----|-------|-------|-------|----|----|
| 10 | 1/2 | 6  | 12.97 | 9.51  | 22.48 | 7  | 26 |
|    | 3/4 | 8  | 14.69 | 10.64 | 25.33 | 8  | 29 |
|    | 1   | 11 | 17.44 | 11.73 | 29.17 | 9  | 33 |
|    | 1.5 | 15 | 21.06 | 13.60 | 34.66 | 10 | 38 |

|    |     |    |       |       |       |   |    |
|----|-----|----|-------|-------|-------|---|----|
| 15 | 1/2 | 4  | 11.45 | 9.51  | 20.96 | 6 | 25 |
|    | 3/4 | 6  | 12.97 | 10.64 | 23.61 | 7 | 28 |
|    | 1   | 8  | 14.69 | 11.73 | 26.42 | 8 | 32 |
|    | 1.5 | 11 | 17.44 | 13.60 | 31.04 | 9 | 37 |

|    |     |    |       |       |       |   |    |
|----|-----|----|-------|-------|-------|---|----|
| 20 | 3/4 | 5  | 13.65 | 10.64 | 24.29 | 6 | 28 |
|    | 1   | 7  | 16.10 | 11.73 | 27.83 | 7 | 31 |
|    | 1.5 | 10 | 19.77 | 13.60 | 33.37 | 8 | 36 |

|    |     |   |       |       |       |   |    |
|----|-----|---|-------|-------|-------|---|----|
| 25 | 1   | 6 | 14.88 | 11.73 | 26.61 | 7 | 31 |
|    | 1.5 | 8 | 17.32 | 15.10 | 30.92 | 8 | 36 |

Notes: All lengths are in inches, all weights are in pounds. Maximum diameter with cable guard is 3.90"  
PE - Pump end only / PMA - Pump and motor assembly

| Stainless Steel with 2-Wire Motors |     |        |       |       |       |        |         |
|------------------------------------|-----|--------|-------|-------|-------|--------|---------|
| GPM                                | HP  | Stages | A     | B     | C     | PE Wt. | PMA Wt. |
| 5                                  | 1/2 | 8      | 13.57 | 9.51  | 23.08 | 10     | 28      |
|                                    | 3/4 | 12     | 16.86 | 10.64 | 27.50 | 12     | 33      |
|                                    | 1   | 15     | 19.33 | 11.73 | 31.06 | 14     | 38      |
|                                    | 1.5 | 21     | 24.26 | 15.10 | 39.36 | 17     | 48      |
| 7                                  | 1/2 | 7      | 12.75 | 9.51  | 22.26 | 9      | 27      |
|                                    | 3/4 | 10     | 15.22 | 10.64 | 25.86 | 11     | 32      |
|                                    | 1   | 13     | 17.68 | 11.73 | 29.41 | 13     | 37      |
|                                    | 1.5 | 18     | 21.80 | 15.10 | 36.90 | 15     | 46      |
| 10                                 | 1/2 | 6      | 12.39 | 9.51  | 21.90 | 7      | 25      |
|                                    | 3/4 | 8      | 14.14 | 10.64 | 24.78 | 10     | 31      |
|                                    | 1   | 11     | 16.85 | 11.73 | 28.58 | 11     | 35      |
|                                    | 1.5 | 15     | 20.48 | 15.10 | 35.58 | 14     | 45      |
| 15                                 | 1/2 | 4      | 10.64 | 9.51  | 20.15 | 7      | 25      |
|                                    | 3/4 | 6      | 12.39 | 10.64 | 23.03 | 9      | 30      |
|                                    | 1   | 8      | 14.14 | 11.73 | 25.87 | 10     | 34      |
|                                    | 1.5 | 11     | 16.85 | 15.10 | 31.95 | 11     | 42      |
| 20                                 | 3/4 | 5      | 13.10 | 10.64 | 23.74 | 8      | 29      |
|                                    | 1   | 7      | 15.55 | 11.73 | 27.28 | 9      | 33      |
|                                    | 1.5 | 10     | 19.22 | 15.10 | 34.32 | 11     | 42      |
| 25                                 | 1   | 6      | 14.33 | 11.73 | 26.06 | 9      | 33      |
|                                    | 1.5 | 8      | 16.77 | 15.10 | 31.87 | 10     | 41      |

| Stainless Steel with 3-Wire Motors |     |        |       |       |       |        |         |
|------------------------------------|-----|--------|-------|-------|-------|--------|---------|
| GPM                                | HP  | Stages | A     | B     | C     | PE Wt. | PMA Wt. |
| 5                                  | 1/2 | 8      | 13.57 | 9.51  | 23.08 | 10     | 29      |
|                                    | 3/4 | 12     | 16.86 | 10.64 | 27.50 | 12     | 33      |
|                                    | 1   | 15     | 19.33 | 11.73 | 31.06 | 14     | 38      |
|                                    | 1.5 | 21     | 24.26 | 13.60 | 37.86 | 17     | 45      |
|                                    | 2   | 26     | 30.46 | 15.10 | 45.56 | 20     | N/A     |
| 7                                  | 1/2 | 7      | 12.75 | 9.51  | 22.26 | 9      | 28      |
|                                    | 3/4 | 10     | 15.22 | 10.64 | 25.86 | 11     | 32      |
|                                    | 1   | 13     | 17.68 | 11.73 | 29.41 | 13     | 37      |
|                                    | 1.5 | 18     | 21.80 | 13.60 | 35.40 | 15     | 43      |
|                                    | 2   | 24     | 26.73 | 15.10 | 41.83 | 19     | N/A     |
| 3                                  | 32  | 35.39  | 19.04 | 54.43 | 23    | N/A    |         |
| 10                                 | 1/2 | 6      | 12.39 | 9.51  | 21.90 | 9      | 28      |
|                                    | 3/4 | 8      | 14.14 | 10.64 | 24.78 | 10     | 31      |
|                                    | 1   | 11     | 16.85 | 11.73 | 28.58 | 11     | 35      |
|                                    | 1.5 | 15     | 20.48 | 13.60 | 34.08 | 14     | 42      |
|                                    | 2   | 18     | 25.26 | 15.10 | 40.36 | 15     | N/A     |
|                                    | 3   | 19     | 26.17 | 19.04 | 45.21 | 16     | N/A     |
| 5                                  | 31  | 37.00  | 29.19 | 66.19 | 23    | N/A    |         |

|    |     |       |       |       |       |     |     |
|----|-----|-------|-------|-------|-------|-----|-----|
| 15 | 1/2 | 4     | 10.64 | 9.51  | 20.15 | 7   | 26  |
|    | 3/4 | 6     | 12.39 | 10.64 | 23.03 | 9   | 30  |
|    | 1   | 8     | 14.14 | 11.73 | 25.87 | 10  | 34  |
|    | 1.5 | 11    | 16.85 | 13.60 | 30.45 | 11  | 39  |
|    | 2   | 14    | 19.57 | 15.10 | 34.67 | 13  | N/A |
| 3  | 19  | 26.17 | 19.04 | 45.21 | 16    | N/A |     |
| 5  | 31  | 37.00 | 29.19 | 66.19 | 23    | N/A |     |

|     |     |       |       |        |       |     |     |
|-----|-----|-------|-------|--------|-------|-----|-----|
| 20  | 3/4 | 5     | 13.10 | 10.64  | 23.74 | 8   | 29  |
|     | 1   | 7     | 15.55 | 11.73  | 27.28 | 9   | 33  |
|     | 1.5 | 10    | 19.22 | 13.60  | 32.82 | 11  | 39  |
|     | 2   | 12    | 21.66 | 15.10  | 36.76 | 12  | N/A |
|     | 3   | 16    | 26.55 | 19.04  | 45.59 | 14  | N/A |
|     | 5   | 26    | 40.86 | 29.19  | 70.05 | 20  | N/A |
| 7.5 | 39  | 60.77 | 29.60 | 90.37  | 27    | N/A |     |
| 10  | 52  | 76.66 | 32.60 | 109.26 | 35    | N/A |     |

|    |     |       |       |       |       |     |     |
|----|-----|-------|-------|-------|-------|-----|-----|
| 25 | 1   | 6     | 14.33 | 11.73 | 26.06 | 9   | 33  |
|    | 1.5 | 8     | 16.77 | 13.60 | 30.37 | 10  | 38  |
|    | 2   | 10    | 19.22 | 15.10 | 34.32 | 11  | N/A |
|    | 3   | 14    | 24.11 | 19.04 | 43.15 | 13  | N/A |
|    | 5   | 23    | 37.19 | 28.19 | 66.38 | 18  | N/A |
|    | 7.5 | 35    | 55.88 | 29.60 | 85.48 | 25  | N/A |
| 10 | 44  | 66.88 | 32.60 | 99.48 | 30    | N/A |     |

## 4" SERIES V PUMPS - 5 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 5   | 1/2 | 8    | 115   | 5FV05P4-2W115 | 95400505 | 2445049004S | 5FV05P4-3W115 | 95400530 | 2145049004S | 2801044915  |
|     | 1/2 | 8    | 230   | 5FV05P4-2W230 | 95400510 | 2445059004S | 5FV05P4-3W230 | 95400535 | 2145059004S | 2801054915  |
|     | 3/4 | 12   | 230   | 5FV07P4-2W230 | 95400515 | 2445079004S | 5FV07P4-3W230 | 95400540 | 2145079004S | 2801074915  |
|     | 1   | 15   | 230   | 5FV1P4-2W230  | 95400520 | 2445089003S | 5FV1P4-3W230  | 95400545 | 2145089003S | 2801084915  |
|     | 1.5 | 21   | 230   | 5FV15P4-2W230 | 95400525 | 2443099004S | 5FV15P4-3W230 | 95400550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 5   | 1/2 | 8    | 115   | 5FV05S4-2W115 | 95420505 | 2445049004S | 5FV05S4-3W115 | 95420530 | 2145049004S | 2801044915  |
|     | 1/2 | 8    | 230   | 5FV05S4-2W230 | 95420510 | 2445059004S | 5FV05S4-3W230 | 95420535 | 2145059004S | 2801054915  |
|     | 3/4 | 12   | 230   | 5FV07S4-2W230 | 95420515 | 2445079004S | 5FV07S4-3W230 | 95420540 | 2145079004S | 2801074915  |
|     | 1   | 15   | 230   | 5FV1S4-2W230  | 95420520 | 2445089003S | 5FV1S4-3W230  | 95420545 | 2145089003S | 2801084915  |
|     | 1.5 | 21   | 230   | 5FV15S4-2W230 | 95420525 | 2443099004S | 5FV15S4-3W230 | 95420550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |            |          | Plastic - Pump End Only |     |      |            |          |
|---------------------------------|-----|------|------------|----------|-------------------------|-----|------|------------|----------|
| GPM                             | HP  | Stg. | Model      | Order    | GPM                     | HP  | Stg. | Model      | Order    |
| 5                               | 1/2 | 8    | 5FV05S4-PE | 95430500 | 5                       | 1/2 | 8    | 5FV05P4-PE | 95410500 |
|                                 | 3/4 | 12   | 5FV07S4-PE | 95430501 |                         | 3/4 | 12   | 5FV07P4-PE | 95410501 |
|                                 | 1   | 15   | 5FV1S4-PE  | 95430502 |                         | 1   | 15   | 5FV1P4-PE  | 95410502 |
|                                 | 1.5 | 21   | 5FV15S4-PE | 95430503 |                         | 1.5 | 21   | 5FV15P4-PE | 95410503 |
|                                 | 2   | 26   | 5FV2S4-PE  | 95430504 |                         |     |      |            |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

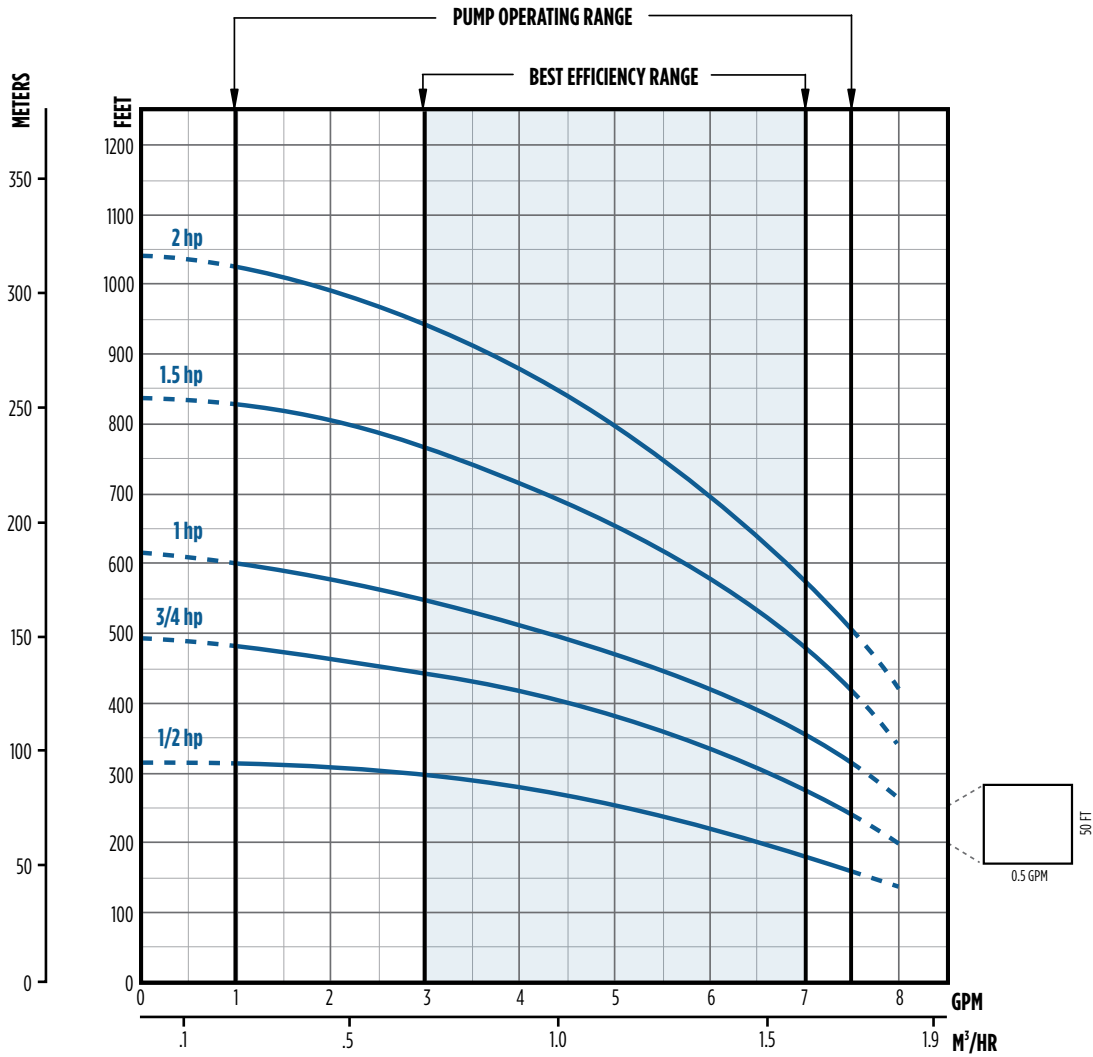
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 1/2          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     |     | 8   | 7   | 6   | 6   | 5   | 3   | 2   |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 30  |   |     |     | 7   | 7   | 6   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 40  |   |     | 7   | 7   | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 50  |   | 7   | 6   | 6   | 5   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 60  | 7   | 7   | 6   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 80  | 6   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 127   | 119 | 110 | 101 | 93  | 84  | 75  | 67  | 58  | 49  | 32  | 23  |     |     |     |     |     |     |     |     |     |     |      |
| 3/4          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |      |
|              | 30  |   |     |     |     |     |     |     | 7   | 7   | 6   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |      |
|              | 40  |   |     |     |     |     |     | 7   | 7   | 6   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |      |
|              | 50  |   |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   |     |     |     |     |     |     |     |     |     |      |
|              | 60  |   |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 5   | 5   | 4   | 3   |     |     |     |     |     |     |     |     |      |
|              | 80  |   | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 3   | 3   |     |     |     |     |     |     |     |     |     |     |      |
| Shut-off PSI |     | 205   | 196 | 188 | 179 | 171 | 162 | 153 | 145 | 136 | 127 | 110 | 101 | 84  | 58  | 41  | 23  |     |     |     |     |     |     |      |
| 1            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 3   | 2   |     |     |     |     |     |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |      |
|              | 50  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 4   | 3   |     |     |     |     |     |      |
|              | 60  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 5   | 4   |     |     |     |     |     |      |
|              | 80  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 6   | 6   | 5   | 5   | 4   |     |     |     |     |     |      |
| Shut-off PSI |     | 257   | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93  | 75  | 58  | 49  |     |     |     |     |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" SERIES V PUMPS - 5 GPM

## PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 2   |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 5   | 3   |     |     |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 4   | 3   |     |     |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 5   | 4   | 2   |     |     |      |
|              | 50  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 3   |     |     |     |      |
|              | 60  |   |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 5   | 3   |     |     |     |      |
|              | 80  |   |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 5   | 4   | 4   | 2   |     |     |     |      |
| Shut-off PSI |     | 352   | 344 | 335 | 326 | 318 | 309 | 300 | 292 | 283 | 274 | 257 | 249 | 231 | 205 | 188 | 171 | 153 | 145 | 101 | 58  | 15  |     |      |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 5   | 4   | 3   |     |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 5   | 4   | 2   |     |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 5   | 3   |     |     |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 5   | 3   |     |     |      |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 5   | 4   | 3   |     |      |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 6   | 6   | 6   | 5   | 4   | 3   |     |      |
|              | 80  |   |     |     |     |     |     |     |     |     | 7   | 7   | 7   | 7   | 6   | 6   | 6   | 6   | 5   | 3   |     |     |     |      |
| Shut-off PSI |     | 441   | 432 | 424 | 415 | 406 | 398 | 389 | 381 | 372 | 363 | 346 | 337 | 320 | 294 | 277 | 259 | 242 | 233 | 190 | 147 | 104 | 60  |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 7 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 7   | 1/2 | 7    | 115   | 7FV05P4-2W115 | 95400705 | 2445049004S | 7FV05P4-3W115 | 95400730 | 2145049004S | 2801044915  |
|     | 1/2 | 7    | 230   | 7FV05P4-2W230 | 95400710 | 2445059004S | 7FV05P4-3W230 | 95400735 | 2145059004S | 2801054915  |
|     | 3/4 | 10   | 230   | 7FV07P4-2W230 | 95400715 | 2445079004S | 7FV07P4-3W230 | 95400740 | 2145079004S | 2801074915  |
|     | 1   | 13   | 230   | 7FV1P4-2W230  | 95400720 | 2445089003S | 7FV1P4-3W230  | 95400745 | 2145089003S | 2801084915  |
|     | 1.5 | 18   | 230   | 7FV15P4-2W230 | 95400725 | 2443099004S | 7FV15P4-3W230 | 95400750 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 7   | 1/2 | 7    | 115   | 7FV05S4-2W115 | 95420705 | 2445049004S | 7FV05S4-3W115 | 95420730 | 2145049004S | 2801044915  |
|     | 1/2 | 7    | 230   | 7FV05S4-2W230 | 95420710 | 2445059004S | 7FV05S4-3W230 | 95420735 | 2145059004S | 2801054915  |
|     | 3/4 | 10   | 230   | 7FV07S4-2W230 | 95420715 | 2445079004S | 7FV07S4-3W230 | 95420740 | 2145079004S | 2801074915  |
|     | 1   | 13   | 230   | 7FV1S4-2W230  | 95420720 | 2445089003S | 7FV1S4-3W230  | 95420745 | 2145089003S | 2801084915  |
|     | 1.5 | 18   | 230   | 7FV15S4-2W230 | 95420725 | 2443099004S | 7FV15S4-3W230 | 95420750 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |            |          | Plastic - Pump End Only |     |      |            |          |  |
|---------------------------------|-----|------|------------|----------|-------------------------|-----|------|------------|----------|--|
| GPM                             | HP  | Stg. | Model      | Order    | GPM                     | HP  | Stg. | Model      | Order    |  |
| 7                               | 1/2 | 7    | 7FV05S4-PE | 95430700 | 7                       | 1/2 | 7    | 7FV05P4-PE | 95410700 |  |
|                                 | 3/4 | 10   | 7FV07S4-PE | 95430701 |                         | 3/4 | 10   | 7FV07P4-PE | 95410701 |  |
|                                 | 1   | 13   | 7FV1S4-PE  | 95430702 |                         | 1   | 13   | 7FV1P4-PE  | 95410702 |  |
|                                 | 1.5 | 18   | 7FV15S4-PE | 95430703 |                         | 1.5 | 18   | 7FV15P4-PE | 95410703 |  |
|                                 | 2   | 24   | 7FV2S4-PE  | 95430704 |                         |     |      |            |          |  |
|                                 | 3   | 32   | 7FV3S4-PE  | 95430705 |                         |     |      |            |          |  |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

### CAPACITIES IN U.S. GALLONS PER MINUTE

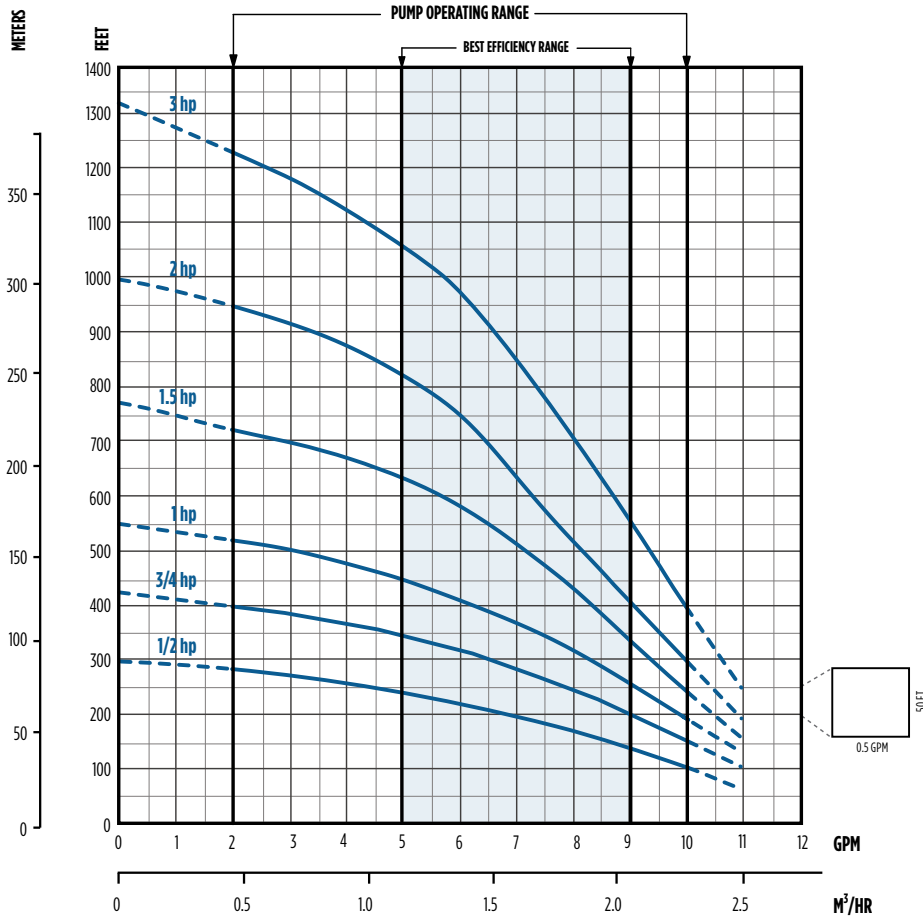
| HP  | PSI          | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------------------|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 |     | 700 | 800 | 900 | 1000 |                   |
| 1.5 | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Shut-off 7.65 ft. |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | Shut-off PSI | 322   | 313 | 305 | 296 | 287 | 279 | 270 | 261 | 253 | 244 | 227 | 218 | 201 | 175 | 158 | 140 | 123 | 114 | 71  | 28  |     |     |     |      |                   |
| 2   | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Shut-off 9.95 ft. |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | Shut-off PSI | 421   | 412 | 404 | 395 | 386 | 378 | 369 | 360 | 352 | 343 | 326 | 317 | 300 | 274 | 257 | 239 | 222 | 213 | 170 | 127 | 84  | 40  |     |      |                   |
| 1   | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Shut-off 5.4 ft.  |
|     | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |                   |
|     | Shut-off PSI | 226   | 218 | 209 | 200 | 192 | 183 | 174 | 166 | 157 | 148 | 131 | 123 | 105 | 79  | 62  | 45  | 27  | 18  |     |     |     |     |     |      |                   |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 4" SERIES V PUMPS - 7 GPM

## PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|------------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |     | 600 | 700 | 800 | 900               | 1000             |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | Shut-off 7.6 ft. |
|              | 20  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 7   | 6   | 5   | 2   |     |                   |                  |
|              | 30  |   |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 6   | 6   | 3   |     |     |                   |                  |
|              | 40  |   |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 7   | 7   | 6   | 6   | 5   | 3   |     |     |     |                   |                  |
|              | 50  |   | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 6   | 6   | 5   | 5   |     |     |     |     |                   |                  |
|              | 60  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |                   |                  |
|              | 80  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   | 3   |     |     |     |     |     |     |                   |                  |
| Shut-off PSI |     | 322   | 313 | 305 | 296 | 287 | 279 | 270 | 261 | 253 | 244 | 227 | 218 | 201 | 175 | 158 | 140 | 123 | 114 | 71  | 28  |     |     |                   |                  |
| 2            | 0   |   |     |     |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 6   | 5   | 3   | Shut-off 9.5 ft.  |                  |
|              | 20  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 4   |     |                   |                  |
|              | 30  |   |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |                   |                  |
|              | 40  |   |     |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |                   |                  |
|              | 50  |   |     |     | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |                   |                  |
|              | 60  |   | 10  | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |                   |                  |
|              | 80  | 10  | 10  | 10  | 10  | 10  | 9   | 9   | 9   | 9   | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |     |     |                   |                  |
| Shut-off PSI |     | 421   | 412 | 404 | 395 | 386 | 378 | 369 | 360 | 352 | 343 | 326 | 317 | 300 | 274 | 257 | 239 | 222 | 213 | 170 | 127 | 84  | 40  |                   |                  |
| 3            | 0   |   |     |     |     |     |     |     | 10  | 9   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |     |     | Shut-off 13.0 ft. |                  |
|              | 20  |   |     | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |                   |                  |
|              | 30  |   |     | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 6   | 4   | 3   |     |     |     |     |     |     |     |     |     |     |                   |                  |
|              | 40  |   |     | 10  | 9   | 9   | 8   | 8   | 7   | 6   | 6   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |                   |                  |
|              | 50  |   | 10  | 10  | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 4   |     |     |     |     |     |     |     |     |     |     |                   |                  |
|              | 60  | 10  | 10  | 9   | 8   | 8   | 8   | 7   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |                   |                  |
|              | 80  | 10  | 9   | 8   | 8   | 7   | 7   | 6   | 5   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |                   |                  |
| Shut-off PSI |     | 523   | 480 | 437 | 394 | 350 | 307 | 264 | 221 | 177 | 134 | 91  | 48  |     |     |     |     |     |     |     |     |     |     |                   |                  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 10 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 10  | 1/2 | 6    | 115   | 10FV05P4-2W115 | 95401005 | 2445049004S | 10FV05P4-3W115 | 95401030 | 2145049004S | 2801044915  |
|     | 1/2 | 6    | 230   | 10FV05P4-2W230 | 95401010 | 2445059004S | 10FV05P4-3W230 | 95401035 | 2145059004S | 2801054915  |
|     | 3/4 | 8    | 230   | 10FV07P4-2W230 | 95401015 | 2445079004S | 10FV07P4-3W230 | 95401040 | 2145079004S | 2801074915  |
|     | 1   | 11   | 230   | 10FVIP4-2W230  | 95401020 | 2445089003S | 10FVIP4-3W230  | 95401045 | 2145089003S | 2801084915  |
|     | 1.5 | 15   | 230   | 10FV15P4-2W230 | 95401025 | 2443099004S | 10FV15P4-3W230 | 95401050 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 10  | 1/2 | 6    | 115   | 10FV05S4-2W115 | 95421005 | 2445049004S | 10FV05S4-3W115 | 95421030 | 2145049004S | 2801044915  |
|     | 1/2 | 6    | 230   | 10FV05S4-2W230 | 95421010 | 2445059004S | 10FV05S4-3W230 | 95421035 | 2145059004S | 2801054915  |
|     | 3/4 | 8    | 230   | 10FV07S4-2W230 | 95421015 | 2445079004S | 10FV07S4-3W230 | 95421040 | 2145079004S | 2801074915  |
|     | 1   | 11   | 230   | 10FVIS4-2W230  | 95421020 | 2445089003S | 10FVIS4-3W230  | 95421045 | 2145089003S | 2801084915  |
|     | 1.5 | 15   | 230   | 10FVIS4-2W230  | 95421025 | 2443099004S | 10FVIS4-3W230  | 95421050 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg. | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 10                              | 1/2 | 6    | 10FV05S4-PE | 95431000 | 10                      | 1/2 | 6    | 10FV05P4-PE | 95411000 |
|                                 | 3/4 | 8    | 10FV07S4-PE | 95431001 |                         | 3/4 | 8    | 10FV07P4-PE | 95411001 |
|                                 | 1   | 11   | 10FVIS4-PE  | 95431002 |                         | 1   | 11   | 10FVIP4-PE  | 95411002 |
|                                 | 1.5 | 15   | 10FV15S4-PE | 95431003 |                         | 1.5 | 15   | 10FV15P4-PE | 95411003 |
|                                 | 2   | 18   | 10FV2S4-PE  | 95431004 |                         |     |      |             |          |
|                                 | 3   | 24   | 10FV3S4-PE  | 95431005 |                         |     |      |             |          |
|                                 | 5   | 39   | 10FV5S4-PE  | 95431006 |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

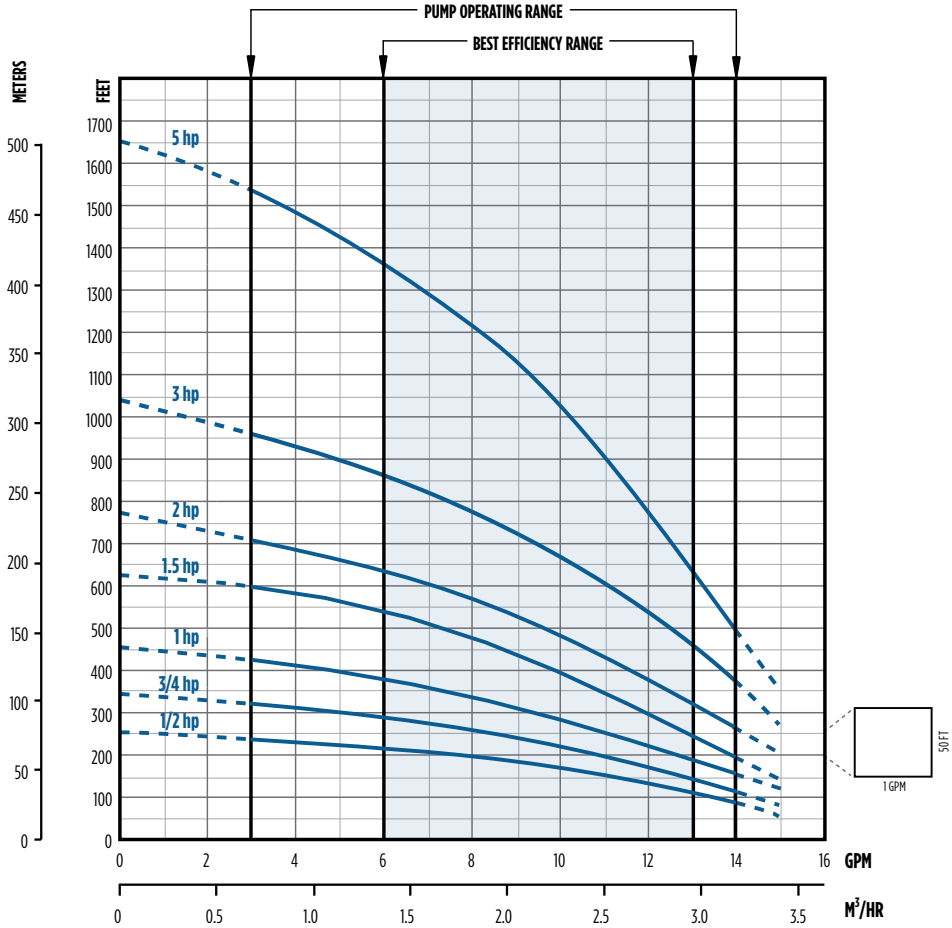
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|------------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |   | 700 | 800 | 900 | 1000             |
| 1/2          | 0   |   |     |     | 14  | 13  | 12  | 11  | 10  | 9   | 7   |     |     |     |     |     |     |     |     |   |     |     |     | Shut-off 244 ft. |
|              | 20  | 14  | 13  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 30  | 13  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 40  | 13  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 50  | 12  | 11  | 9   | 8   | 5   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 60  | 11  | 10  | 7   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 80  | 8   | 6   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
| Shut-off PSI |     | 97  | 88  | 80  | 71  | 62  | 54  | 45  | 36  | 28  | 19  |     |     |     |     |     |     |     |     |   |     |     |     |                  |
| 3/4          | 0   |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 7   | 8   | 4   |     |     |     |     |     |     |   |     |     |     | Shut-off 338 ft. |
|              | 20  |   | 14  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 6   | 4   |     |     |     |     |     |     |   |     |     |     |                  |
|              | 30  | 14  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 3   |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 40  | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 50  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 60  | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
|              | 80  | 11  | 10  | 9   | 8   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |                  |
| Shut-off PSI |     | 137   | 129 | 120 | 111 | 103 | 94  | 85  | 77  | 68  | 59  | 42  | 34  | 16  |     |     |     |     |     |   |     |     |     |                  |
| 1            | 0   |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 7   | 4   |     |     |     |     |     |     |   |     |     |     | Shut-off 444 ft. |
|              | 20  |   |     |     | 14  | 13  | 13  | 12  | 11  | 11  | 9   | 9   | 7   | 3   |     |     |     |     |     |   |     |     |     |                  |
|              | 30  |   |     |     | 14  | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 6   |     |     |     |     |     |   |     |     |     |                  |
|              | 40  |   |     | 14  | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   |     |     |     |     |     |   |     |     |     |                  |
|              | 50  |   | 14  | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |   |     |     |     |                  |
|              | 60  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 8   | 8   | 5   | 4   |     |     |     |     |     |     |   |     |     |     |                  |
|              | 80  | 12  | 12  | 11  | 10  | 10  | 9   | 8   | 7   | 6   | 5   |     |     |     |     |     |     |     |     |   |     |     |     |                  |
| Shut-off PSI |     | 183   | 174 | 157 | 148 | 140 | 131 | 123 | 114 | 105 | 97  | 79  | 71  | 53  | 27  | 10  |     |     |     |   |     |     |     |                  |
| 1.5          | 0   |   |     |     |     |     | 14  | 13  | 13  | 13  | 12  | 12  | 10  | 9   | 9   | 8   | 7   |     |     |   |     |     |     | Shut-off 615 ft. |
|              | 20  |   |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 9   | 8   | 7   | 6   | 5   |     |   |     |     |     |                  |
|              | 30  |   |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 8   | 8   | 6   | 5   | 4 |     |     |     |                  |
|              | 40  |   |     |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 10  | 10  | 8   | 7   | 6   | 4   |     |   |     |     |     |                  |
|              | 50  |   |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 10  | 10  | 9   | 8   | 6   | 5   | 3   |     |   |     |     |     |                  |
|              | 60  |   | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 7   | 6   | 4   |     |     |     |   |     |     |     |                  |
|              | 80  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 10  | 10  | 9   | 8   | 6   | 3   |     |     |     |     |   |     |     |     |                  |
| Shut-off PSI |     | 257   | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93  | 75  | 41  | 32  |   |     |     |     |                  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" SERIES V PUMPS - 10 GPM

## PERFORMANCE



| HP           | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |     | 600 | 700 | 800 | 900 |
| 2            | 0   |   |     |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 10  | 9   | 6   |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 9   | 8   | 5   |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 10  | 9   | 8   | 4   |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 3   |     |     |     |     |     |
|              | 50  |   |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |     |
|              | 60  |   |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   | 5   |     |     |     |     |     |     |
|              | 80  |   |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 4   | 4   |     |     |     |     |     |     |     |
| Shut-off PSI |     | 324   | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125 | 117 | 73  |     |     |     |     |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     | 14  | 13  | 13  | 12  | 12  | 11  | 9   | 7   | 5   |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     | 14  | 13  | 12  | 12  | 11  | 10  | 8   | 6   | 3   |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 8   | 5   |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 9   | 7   | 4   |     |     |
|              | 50  |   |     |     |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 11  | 9   | 7   | 4   |     |     |
|              | 60  |   |     |     |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 8   | 6   | 3   |     |     |
|              | 80  |   |     |     |     |     | 14  | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 8   | 5   |     |     |     |     |
| Shut-off PSI |     | 438   | 430 | 421 | 413 | 404 | 395 | 387 | 378 | 369 | 361 | 343 | 335 | 317 | 291 | 274 | 257 | 240 | 231 | 188 | 144 | 101 | 58  |     |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     | 14  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 6   | 4   |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     | 14  | 13  | 12  | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 4   |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     | 14  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 7   | 6   | 5   | 3   |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 4   |     |     |     |     |     |     |     |     |     |
|              | 80  |   |     | 14  | 14  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 670   | 626 | 583 | 540 | 497 | 453 | 410 | 367 | 324 | 280 | 237 | 194 | 151 | 107 |     |     |     |     |     |     |     |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 15 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 15  | 1/2 | 4    | 115   | 15FV05P4-2W115 | 95401505 | 2445049004S | 15FV05P4-3W115 | 95401530 | 2145049004S | 2801044915  |
|     | 1/2 | 4    | 230   | 15FV05P4-2W230 | 95401510 | 2445059004S | 15FV05P4-3W230 | 95401535 | 2145059004S | 2801054915  |
|     | 3/4 | 6    | 230   | 15FV07P4-2W230 | 95401515 | 2445079004S | 15FV07P4-3W230 | 95401540 | 2145079004S | 2801074915  |
|     | 1   | 8    | 230   | 15FVIP4-2W230  | 95401520 | 2445089003S | 15FVIP4-3W230  | 95401545 | 2145089003S | 2801084915  |
|     | 1.5 | 11   | 230   | 15FV15P4-2W230 | 95401525 | 2443099004S | 15FV15P4-3W230 | 95401550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 15  | 1/2 | 4    | 115   | 15FV05S4-2W115 | 95421505 | 2445049004S | 15FV05S4-3W115 | 95421530 | 2145049004S | 2801044915  |
|     | 1/2 | 4    | 230   | 15FV05S4-2W230 | 95421510 | 2445059004S | 15FV05S4-3W230 | 95421535 | 2145059004S | 2801054915  |
|     | 3/4 | 6    | 230   | 15FV07S4-2W230 | 95421515 | 2445079004S | 15FV07S4-3W230 | 95421540 | 2145079004S | 2801074915  |
|     | 1   | 8    | 230   | 15FVIS4-2W230  | 95421520 | 2445089003S | 15FVIS4-3W230  | 95421545 | 2145089003S | 2801084915  |
|     | 1.5 | 11   | 230   | 15FVIS4-2W230  | 95421525 | 2443099004S | 15FVIS4-3W230  | 95421550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg. | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 15                              | 1/2 | 4    | 15FV05S4-PE | 95431500 | 15                      | 1/2 | 4    | 15FV05P4-PE | 95411500 |
|                                 | 3/4 | 6    | 15FV07S4-PE | 95431501 |                         | 3/4 | 6    | 15FV07P4-PE | 95411501 |
|                                 | 1   | 8    | 15FVIS4-PE  | 95431502 |                         | 1   | 8    | 15FVIP4-PE  | 95411502 |
|                                 | 1.5 | 11   | 15FV15S4-PE | 95431503 |                         | 1.5 | 11   | 15FV15P4-PE | 95411503 |
|                                 | 2   | 14   | 15FV2S4-PE  | 95431504 |                         |     |      |             |          |
|                                 | 3   | 19   | 15FV3S4-PE  | 95431505 |                         |     |      |             |          |
|                                 | 5   | 31   | 15FV5S4-PE  | 95431506 |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

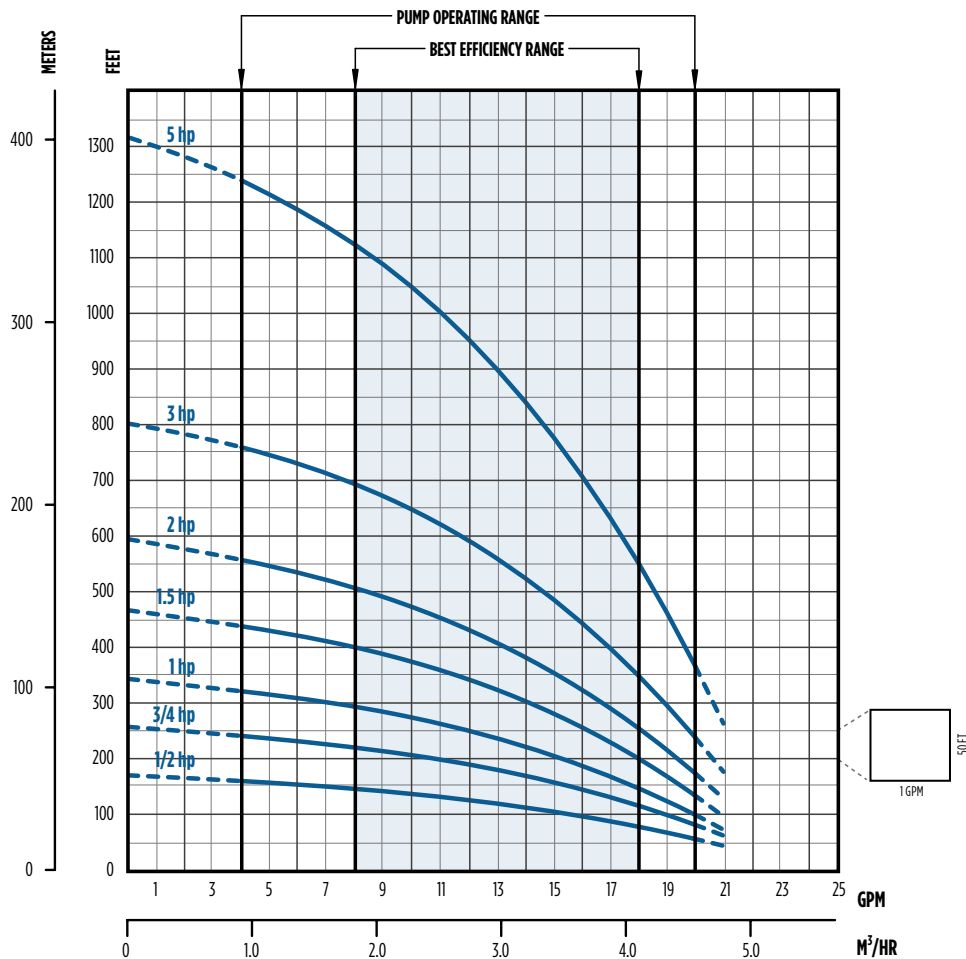
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |  |
| 1/2          | 0   |   |     |     | 20  | 18  | 16  | 15  | 13  | 9   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 20  | 19  | 17  | 15  | 12  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 30  | 17  | 14  | 11  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 40  | 14  | 11  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 50  | 10  | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 60  | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 80           |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| Shut-off PSI |     | 65  | 56  | 48  | 39  | 30  | 22  | 13  | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 3/4          | 0   |   |     |     | 20  | 19  | 18  | 16  | 15  | 13  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 20  |   | 20  | 19  | 17  | 16  | 14  | 12  | 10  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 30  | 20  | 18  | 17  | 16  | 14  | 12  | 10  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 40  | 18  | 17  | 15  | 14  | 12  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 50  | 17  | 15  | 13  | 11  | 9   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 60  | 15  | 13  | 11  | 8   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 80           | 10  | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| Shut-off PSI |     | 103   | 94  | 85  | 77  | 68  | 59  | 51  | 42  | 33  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 1            | 0   |   |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 13  | 11  | 7   |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 20  |   |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 9   | 6   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 30  | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 10  | 6   |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 40  | 19  | 19  | 18  | 17  | 16  | 15  | 13  | 12  | 10  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 50  | 18  | 18  | 17  | 16  | 14  | 13  | 12  | 10  | 8   | 5   |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 60  | 17  | 16  | 15  | 14  | 13  | 11  | 10  | 7   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 80           | 15  | 14  | 12  | 11  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| Shut-off PSI |     | 140   | 131 | 123 | 114 | 105 | 97  | 88  | 79  | 71  | 62  | 45  | 36  | 19  |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 1.5          | 0   |   |     |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 11  | 8   | 4   |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 20  |   |     |     | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 7   |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 30  |   |     | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 10  | 5   |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 40  |   | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 11  | 9   |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 50  | 20  | 19  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 11  | 10  | 7   |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
|              | 60  | 19  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 12  | 10  | 8   | 4   |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| 80           | 18  | 17  | 16  | 15  | 14  | 13  | 12  | 11  | 9   | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |
| Shut-off PSI |     | 193   | 185 | 176 | 167 | 159 | 150 | 141 | 133 | 124 | 115 | 98  | 89  | 72  | 46  | 29  | 11  |     |     |     |     |     |     |      |      |      |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 15 GPM

### PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     | Shut-off PSI |     |     |     |     |     |     |     |     |     |     |      |      |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 |              | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |      |      |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     | 14  | 13  | 13           | 12  | 11  | 10  | 9   | 8   | 6   |     |     |     |     |      |      |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     | 13  | 13  | 12           | 11  | 10  | 9   | 8   | 5   |     |     |     |     |     |      |      |      |
|              | 40  |   |     |     |     |     |     |     |     | 14  |     | 13  | 13  | 12           | 11  | 10  | 9   | 8   | 7   | 3   |     |     |     |     |      |      |      |
|              | 50  |   |     |     |     |     |     |     | 14  | 13  |     | 13  | 12  | 11           | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |      |      |      |
|              | 60  |   |     |     |     | 14  | 13  |     | 13  | 12  | 11  | 11  | 10  | 9            | 8   | 7   | 6   | 5   |     |     |     |     |     |     |      |      |      |
|              | 80  |   |     |     | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 9            | 8   | 6   | 4   | 4   |     |     |     |     |     |     |      |      |      |
| Shut-off PSI |     | 324   | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203          | 177 | 160 | 143 | 125 | 117 | 73  |     |     |     |     |      |      |      |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |      |      |      |
|              | 20  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17           | 16  | 15  | 14  | 13  | 10  | 8   |     |     |     |     |      |      |      |
|              | 30  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17           | 16  | 15  | 14  | 13  | 9   | 5   |     |     |     |     |      |      |      |
|              | 40  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17           | 16  | 15  | 14  | 13  | 12  | 8   |     |     |     |     |      |      |      |
|              | 50  |   |     |     |     |     |     |     |     | 20  | 20  | 19  | 18  | 17           | 16  | 15  | 14  | 13  | 12  | 7   |     |     |     |     |      |      |      |
|              | 60  |   |     |     |     | 20  | 20  |     | 19  | 19  | 18  | 17  | 17  | 16           | 15  | 14  | 12  | 11  | 10  | 5   |     |     |     |     |      |      |      |
|              | 80  | 20  | 20  | 20  | 20  | 19  | 19  | 19  | 18  | 18  | 17  | 16  | 16  | 15           | 13  | 12  | 11  | 9   | 8   |     |     |     |     |     |      |      |      |
| Shut-off PSI |     | 339   | 330 | 321 | 313 | 304 | 295 | 287 | 278 | 269 | 261 | 243 | 235 | 217          | 191 | 174 | 157 | 139 | 131 | 87  | 44  |     |     |     |      |      |      |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |      |      |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |              | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 10  | 7    | 4    |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |              | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 12  | 9   | 7    |      |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |              | 20  | 20  | 20  | 19  | 18  | 17  | 16  | 15  | 13  | 11  | 9    | 6    |      |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |              | 20  | 20  | 20  | 19  | 18  | 17  | 16  | 14  | 13  | 11  | 8    | 5    |      |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |              | 20  | 20  | 20  | 19  | 18  | 17  | 16  | 14  | 12  | 10  | 8    | 4    |      |
|              | 80  |   |     |     |     |     |     |     | 20  | 20  | 20  | 20  | 19  | 19           | 19  | 18  | 17  | 17  | 16  | 15  | 13  | 11  | 9   | 6   |      |      |      |
| Shut-off PSI |     | 561   | 553 | 544 | 535 | 527 | 518 | 509 | 501 | 492 | 483 | 466 | 457 | 440          | 414 | 397 | 379 | 362 | 353 | 310 | 267 | 224 | 180 | 137 | 94   | 50   |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 20 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 20  | 3/4 | 5    | 230   | 20FV07P4-2W230 | 95402015 | 2445079004S | 20FV07P4-3W230 | 95402040 | 2145079004S | 2801074915  |
|     | 1   | 7    | 230   | 20FVIP4-2W230  | 95402020 | 2445089003S | 20FVIP4-3W230  | 95402045 | 2145089003S | 2801084915  |
|     | 1.5 | 10   | 230   | 20FV15P4-2W230 | 95402025 | 2443099004S | 20FV15P4-3W230 | 95402050 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 20  | 3/4 | 5    | 230   | 20FV07S4-2W230 | 95422015 | 2445079004S | 20FV07S4-3W230 | 95422040 | 2145079004S | 2801074915  |
|     | 1   | 7    | 230   | 20FVIS4-2W230  | 95422020 | 2445089003S | 20FVIS4-3W230  | 95422045 | 2145089003S | 2801084915  |
|     | 1.5 | 10   | 230   | 20FV15S4-2W230 | 95422025 | 2443099004S | 20FV15S4-3W230 | 95422050 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |             |          | Plastic - Pump End Only |     |      |             |          |
|---------------------------------|-----|------|-------------|----------|-------------------------|-----|------|-------------|----------|
| GPM                             | HP  | Stg. | Model       | Order    | GPM                     | HP  | Stg. | Model       | Order    |
| 20                              | 3/4 | 5    | 20FV07S4-PE | 95432001 | 20                      | 3/4 | 5    | 20FV07P4-PE | 95412001 |
|                                 | 1   | 7    | 20FVIS4-PE  | 95432002 |                         | 1   | 7    | 20FVIP4-PE  | 95412002 |
|                                 | 1.5 | 10   | 20FV15S4-PE | 95432003 |                         | 1.5 | 10   | 20FV15P4-PE | 95412003 |
|                                 | 2   | 12   | 20FV2S4-PE  | 95432004 |                         |     |      |             |          |
|                                 | 3   | 16   | 20FV3S4-PE  | 95432005 |                         |     |      |             |          |
|                                 | 5   | 26   | 20FV5S4-PE  | 95432006 |                         |     |      |             |          |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

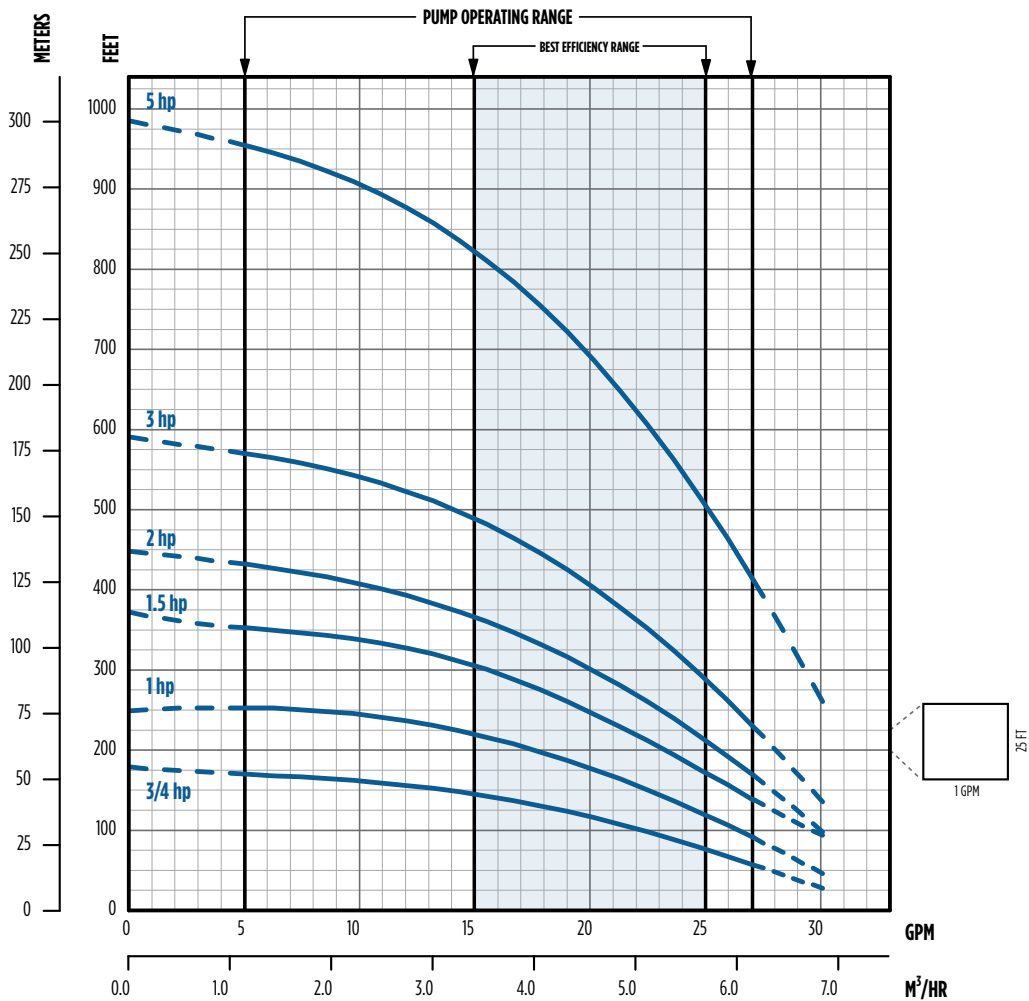
## CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|------------------|------------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 |  | 800 | 900              | 1000             |
| 3/4          | 0   |   |     |     | 24  | 22  | 21  | 18  | 14  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  | Shut-off 190 ft. |
|              | 20  |   | 23  | 21  | 19  | 17  | 12  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30  | 23  | 21  | 19  | 17  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40  | 21  | 19  | 17  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50  | 19  | 16  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60  | 14  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI |     | 74  | 65  | 56  | 48  | 39  | 30  | 22  | 13  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 1            | 0   |   |     |     |     | 26  | 25  | 23  | 20  | 18  | 11  |     |     |     |     |     |     |     |     |     |     |  |     | Shut-off 251 ft. |                  |
|              | 20  |   |     | 27  | 26  | 24  | 22  | 20  | 18  | 15  | 8   |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30  |   | 27  | 26  | 24  | 22  | 19  | 17  | 14  | 7   |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40  | 27  | 25  | 23  | 21  | 19  | 17  | 13  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50  | 25  | 23  | 21  | 19  | 16  | 12  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60  | 23  | 21  | 18  | 16  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 70           | 20  | 18  | 15  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 80           | 18  | 15  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI |     | 100   | 91  | 83  | 74  | 66  | 57  | 48  | 40  | 31  | 22  | 5   |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 1.5          | 0   |   |     |     |     |     | 27  | 26  | 24  | 22  | 20  | 17  | 6   |     |     |     |     |     |     |     |     |  |     | Shut-off 319 ft. |                  |
|              | 20  |   |     |     |     | 27  | 25  | 24  | 23  | 21  | 18  | 16  | 10  |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 30  |   |     |     |     | 26  | 25  | 24  | 22  | 21  | 20  | 16  | 13  |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 40  |   |     |     | 26  | 25  | 23  | 22  | 21  | 19  | 18  | 13  | 8   |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 50  |   | 27  | 26  | 25  | 23  | 22  | 21  | 19  | 17  | 15  | 7   |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
|              | 60  | 27  | 26  | 24  | 23  | 22  | 20  | 19  | 17  | 15  | 11  |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 70           | 26  | 24  | 23  | 21  | 20  | 19  | 17  | 14  | 11  | 5   |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| 80           | 24  | 23  | 21  | 20  | 18  | 16  | 14  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |                  |                  |
| Shut-off PSI |     | 156   | 147 | 138 | 130 | 121 | 112 | 104 | 95  | 86  | 78  | 60  | 52  | 34  | 8   |     |     |     |     |     |     |  |     |                  |                  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" SERIES V PUMPS - 20 GPM

## PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off |     |     |     |      |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 |          | 700 | 800 | 900 | 1000 |
| 2            | 0   |   |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 17  | 12  |     |     |     |     |     |          |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     | 24  | 21  | 20  | 17  | 12  |     |     |     |     |     |     |          |     |     |     |      |
|              | 30  |   |     |     |     |     |     |     | 24  | 23  | 22  | 20  | 19  | 16  |     |     |     |     |     |     |          |     |     |     |      |
|              | 40  |   |     |     |     |     | 24  | 23  | 22  | 20  | 19  | 17  | 14  |     |     |     |     |     |     |     |          |     |     |     |      |
|              | 50  |   |     |     |     | 24  | 23  | 22  | 20  | 19  | 16  | 14  | 10  |     |     |     |     |     |     |     |          |     |     |     |      |
|              | 60  |   |     |     | 24  | 23  | 21  | 20  | 19  | 18  | 14  | 12  |     |     |     |     |     |     |     |     |          |     |     |     |      |
|              | 80  |   |     | 24  | 23  | 21  | 20  | 19  | 18  | 16  | 14  |     |     |     |     |     |     |     |     |     |          |     |     |     |      |
| Shut-off PSI | 187 | 179   | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 110 | 92  | 84  | 66  | 40  | 23  |     |     |     |     |     |          |     |     |     |      |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     | 24  | 22  | 20  | 18  | 16  | 14  |     |     |          |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 17  | 15  | 12  | 10  |     |     |          |     |     |     |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     | 24  | 23  | 21  | 18  | 16  | 13  | 10  |     |     |          |     |     |     |      |
|              | 40  |   |     |     |     |     |     |     |     |     | 24  | 23  | 22  | 20  | 17  | 14  | 11  |     |     |     |          |     |     |     |      |
|              | 50  |   |     |     |     |     |     |     |     | 24  | 24  | 22  | 21  | 19  | 16  | 13  |     |     |     |     |          |     |     |     |      |
|              | 60  |   |     |     |     |     |     | 24  | 24  | 23  | 21  | 20  | 18  | 14  | 10  |     |     |     |     |     |          |     |     |     |      |
|              | 80  |   |     |     |     |     |     | 24  | 23  | 22  | 20  | 18  | 17  | 15  | 10  |     |     |     |     |     |          |     |     |     |      |
| Shut-off PSI | 251 | 242   | 234 | 225 | 216 | 208 | 199 | 190 | 182 | 173 | 156 | 147 | 130 | 104 | 87  | 69  | 52  | 43  |     |     |          |     |     |     |      |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 16       |     |     |     |      |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 21  | 18       | 13  |     |     |      |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 20  | 17       | 11  |     |     |      |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 23  | 20       | 16  | 10  |     |      |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 22  | 22  | 17       | 15  |     |     |      |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 23  | 22  | 21       | 18  | 14  |     |      |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24  | 22  | 21  | 20       | 16  | 10  |     |      |
| Shut-off PSI | 416 | 408   | 399 | 390 | 382 | 373 | 364 | 356 | 347 | 339 | 321 | 313 | 295 | 269 | 252 | 235 | 217 | 209 | 165 | 122 | 79       |     |     |     |      |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" SERIES V PUMPS - 25 GPM

### PLASTIC ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire         |          |             | 3-Wire         |          |             |             |
|-----|-----|------|-------|----------------|----------|-------------|----------------|----------|-------------|-------------|
|     |     |      |       | Model          | Order    | Motor       | Model          | Order    | Motor       | Control Box |
| 25  | 1   | 6    | 230   | 25FVIP4-2W230  | 95402520 | 2445089003S | 25FVIP4-3W230  | 95402545 | 2145089003S | 2801084915  |
|     | 1.5 | 8    | 230   | 25FV15P4-2W230 | 95402525 | 2443099004S | 25FV15P4-3W230 | 95402550 | 2243009203S | 2823008110  |

### STAINLESS STEEL ORDERING INFORMATION

| GPM | HP  | Stg. | Volts | 2-Wire        |          |             | 3-Wire        |          |             |             |
|-----|-----|------|-------|---------------|----------|-------------|---------------|----------|-------------|-------------|
|     |     |      |       | Model         | Order    | Motor       | Model         | Order    | Motor       | Control Box |
| 25  | 1   | 6    | 230   | 25FVIS4-2W230 | 95422520 | 2445089003S | 25FVIS4-3W230 | 95422545 | 2145089003S | 2801084915  |
|     | 1.5 | 8    | 230   | 25FVIS4-2W230 | 95422525 | 2443099004S | 25FVIS4-3W230 | 95422550 | 2243009203S | 2823008110  |

### PUMP END ONLY ORDERING INFORMATION

| Stainless Steel - Pump End Only |     |      |            |          | Plastic - Pump End Only |    |      |            |            |
|---------------------------------|-----|------|------------|----------|-------------------------|----|------|------------|------------|
| GPM                             | HP  | Stg. | Model      | Order    | GPM                     | HP | Stg. | Model      | Order      |
| 25                              | 1   | 6    | 25FVIS4-PE | 95432501 | 25                      | 1  | 6    | 25FVIP4-PE | 95412501   |
|                                 | 1.5 | 8    | 25FVIS4-PE | 95432502 |                         | 25 | 1.5  | 8          | 25FVIP4-PE |
|                                 | 2   | 10   | 25FV2S4-PE | 95432503 |                         |    |      |            |            |
|                                 | 3   | 14   | 25FV3S4-PE | 95432504 |                         |    |      |            |            |
|                                 | 5   | 23   | 25FV5S4-PE | 95432505 |                         |    |      |            |            |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

### CAPACITIES IN U.S. GALLONS PER MINUTE

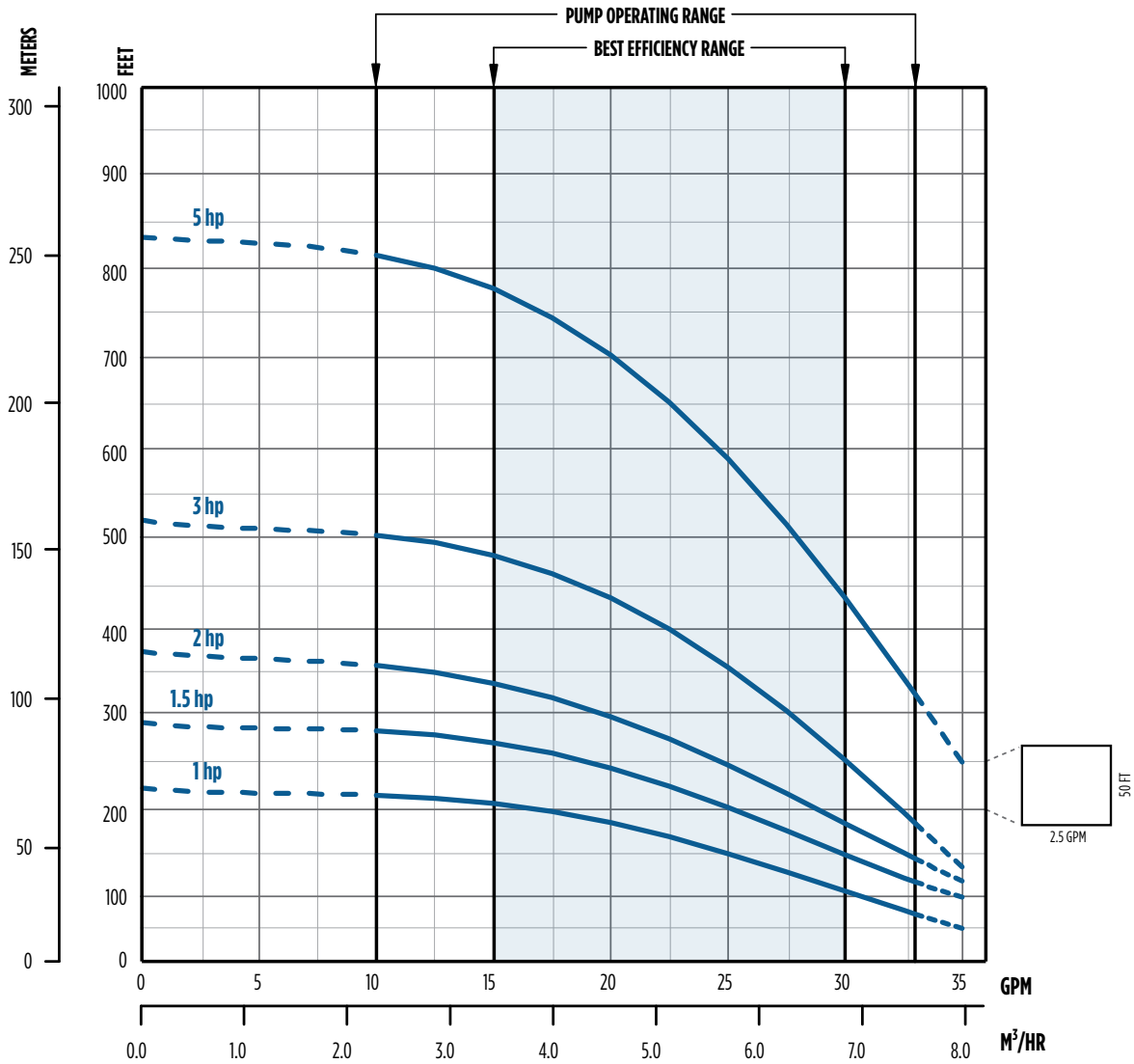
| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|------------------|------------------|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 |  | 800 | 900 | 1000             |                  |
| 1            | 0   |   |     | 35  | 33  | 31  | 28  | 26  | 24  | 21  | 17  |     |     |     |     |     |     |     |     |     |     |  |     |     |                  | Shut-off 222 ft. |
|              | 20  |   | 32  | 30  | 28  | 25  | 22  | 18  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 30  | 32  | 29  | 27  | 25  | 22  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 40  | 29  | 27  | 25  | 22  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 50  | 26  | 24  | 21  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 60  | 24  | 21  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
| Shut-off PSI |     | 87  | 79  | 70  | 61  | 53  | 44  | 35  | 27  | 18  | 10  |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
| 1.5          | 0   |   |     |     |     | 33  | 31  | 29  | 27  | 25  | 21  | 19  |     |     |     |     |     |     |     |     |     |  |     |     | Shut-off 297 ft. |                  |
|              | 20  |   |     |     | 32  | 30  | 28  | 26  | 24  | 22  | 19  |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 30  |   |     | 32  | 30  | 28  | 26  | 24  | 22  | 19  | 16  |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 40  | 33  | 32  | 29  | 27  | 25  | 23  | 21  | 19  | 15  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 50  | 32  | 29  | 27  | 25  | 23  | 21  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 60  | 29  | 27  | 25  | 23  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
| Shut-off PSI |     | 120   | 111 | 103 | 94  | 85  | 77  | 68  | 59  | 51  | 42  | 25  | 16  |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
| 2            | 0   |   |     |     |     |     | 33  | 32  | 30  | 28  | 25  | 24  | 20  |     |     |     |     |     |     |     |     |  |     |     | Shut-off 375 ft. |                  |
|              | 20  |   |     |     | 34  | 33  | 31  | 29  | 28  | 26  | 25  | 21  | 20  |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 30  |   |     | 34  | 33  | 31  | 29  | 28  | 26  | 24  | 23  | 19  | 17  |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 40  |   | 34  | 33  | 31  | 29  | 28  | 26  | 24  | 23  | 21  | 17  |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 50  | 33  | 32  | 30  | 29  | 27  | 26  | 24  | 22  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
|              | 60  | 32  | 30  | 28  | 27  | 26  | 24  | 22  | 20  | 18  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |                  |                  |
| Shut-off PSI |     | 154   | 145 | 136 | 128 | 119 | 110 | 102 | 93  | 84  | 76  | 58  | 50  | 32  |     |     |     |     |     |     |     |  |     |     |                  |                  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 4" SERIES V PUMPS - 25 GPM

## PERFORMANCE



| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Shut-off PSI |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 |              | 600 | 700 | 800 | 900 |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
| Shut-off PSI |     | 216   | 207 | 199 | 190 | 181 | 173 | 164 | 155 | 147 | 138 | 121 | 112 | 95  | 69  | 52  | 34  | 17  |     |              |     |     |     |     |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
|              | 80  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |
| Shut-off PSI |     | 352   | 343 | 326 | 317 | 309 | 300 | 291 | 283 | 274 | 257 | 248 | 231 | 205 | 187 | 170 | 153 | 144 | 101 | 58           |     |     |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## 4" HIGH CAPACITY PUMPS

### FEATURES

- 4 performance ranges - 35, 45, 60, and 90 gpm
- Stainless steel discharge head and motor bracket
- High flow impellers and stages are glass-filled Modified PPO for maximum efficiency
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
- Intermediate bearing for increased shaft stability
- Floating 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 (45, 60, and 90 gpm models)
- Powered by Franklin's corrosion-resistant 4" submersible motors
- 2" NPT discharge
- Check valve must be ordered separately



UL 778  
 CSA 108  
 NSF/ANSI 372  
 NSF/ANSI 61 (Pump end only)

## 4" HIGH CAPACITY PUMPS - ORDERING INFORMATION

### ORDERING INFORMATION

| 1 - 10 HP 4" Pump Ends |     |        |                |          |                 |           |
|------------------------|-----|--------|----------------|----------|-----------------|-----------|
| GPM                    | HP  | Stages | Ordering Info. |          | Dimensions (in) | Wt. (lbs) |
|                        |     |        | Model          | Order    | Pump End Only   |           |
| 35                     | 1   | 6      | 35FA1S4-PE     | 93613506 | 15.00           | 9         |
|                        | 1.5 | 8      | 35FA1SS4-PE    | 93613508 | 17.50           | 10        |
|                        | 2   | 10     | 35FA2S4-PE     | 93613510 | 20.00           | 11        |
|                        | 3   | 14     | 35FA3S4-PE     | 93613514 | 25.00           | 13        |
|                        | 5   | 22     | 35FA5S4-PE     | 93613522 | 35.00           | 17        |
|                        | 7.5 | 34     | 35FA7S4-PE     | 93613534 | 52.17           | 25        |
|                        | 10  | 42     | 35FA10S4-PE    | 93613542 | 62.23           | 31        |
| 45                     | 1.5 | 6      | 45FA1SS4-PE    | 93614506 | 21.00           | 15        |
|                        | 2   | 8      | 45FA2S4-PE     | 93614508 | 25.50           | 16        |
|                        | 3   | 11     | 45FA3S4-PE     | 93614511 | 32.25           | 19        |
|                        | 5   | 18     | 45FA5S4-PE     | 93614518 | 47.75           | 25        |
|                        | 7.5 | 26     | 45FA7S4-PE     | 93614526 | 65.25           | 33        |
|                        | 10  | 31     | 45FA10S4-PE    | 93614531 | 78.30           | 38        |
| 60                     | 2   | 6      | 60FA2S4-PE     | 93616006 | 21.00           | 15        |
|                        | 3   | 8      | 60FA3S4-PE     | 93616008 | 25.50           | 17        |
|                        | 5   | 13     | 60FA5S4-PE     | 93616013 | 36.75           | 21        |
|                        | 7.5 | 17     | 60FA7S4-PE     | 93616017 | 45.25           | 25        |
|                        | 10  | 24     | 60FA10S4-PE    | 93616024 | 61.00           | 31        |
| 90                     | 2   | 5      | 90FA2S4-PE     | 93619005 | 22.56           | 15        |
|                        | 3   | 7      | 90FA3S4-PE     | 93619007 | 28.56           | 17        |
|                        | 5   | 12     | 90FA5S4-PE     | 93619012 | 43.56           | 21        |
|                        | 7.5 | 19     | 90FA7S4-PE     | 93619019 | 64.50           | 27        |
|                        | 10  | 24     | 90FA10S4-PE    | 93619020 | 79.25           | 31        |

**Notes:** Discharge is 2" NPT. Maximum diameter across cable guard is 3.90" on all models.

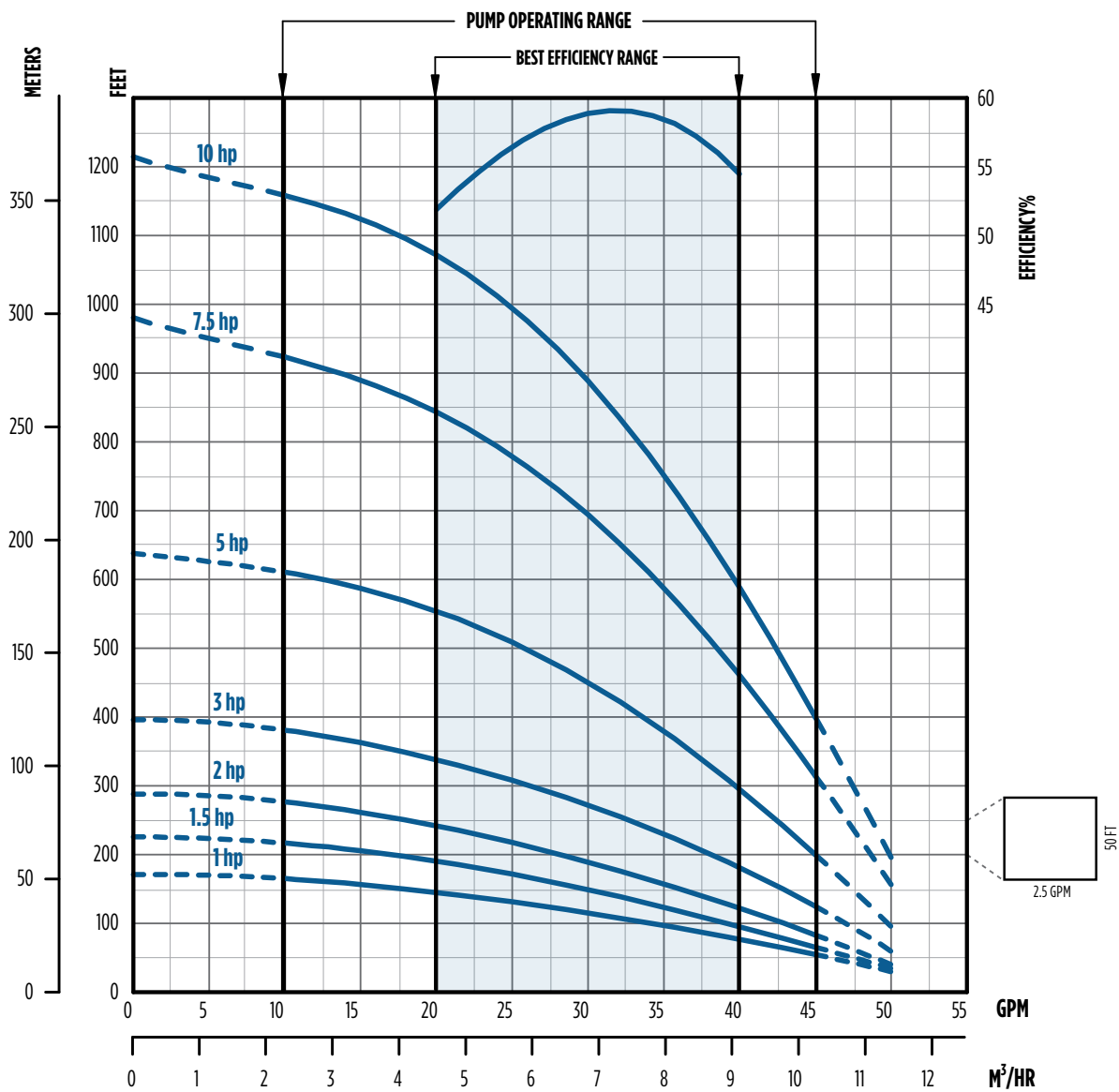
| 1 - 1.5 HP Single-Phase Units |     |        |       |                |          |           |                |          |           |
|-------------------------------|-----|--------|-------|----------------|----------|-----------|----------------|----------|-----------|
| GPM                           | HP  | Stages | Volts | 2-Wire         |          |           | 3-Wire         |          |           |
|                               |     |        |       | Model          | Order    | Wt. (lbs) | Model          | Order    | Wt. (lbs) |
| 35                            | 1   | 6      | 230   | 35FA1S4-2W230  | 93613606 | 33        | 35FA1S4-3W230  | 93613706 | 33        |
|                               | 1.5 | 8      | 230   | 35FA1SS4-2W230 | 93613608 | 41        | 35FA1SS4-3W230 | 93613708 | 39        |
| 45                            | 1.5 | 6      | 230   | 45FA1SS4-2W230 | 93614606 | 46        | 45FA1SS4-3W230 | 93614706 | 44        |

**Notes:** All listed above have 2" NPT discharge. Order check valve separately. Pump and motor will be individually cartoned and require assembly.



# 4" HIGH CAPACITY PUMPS - 35 GPM

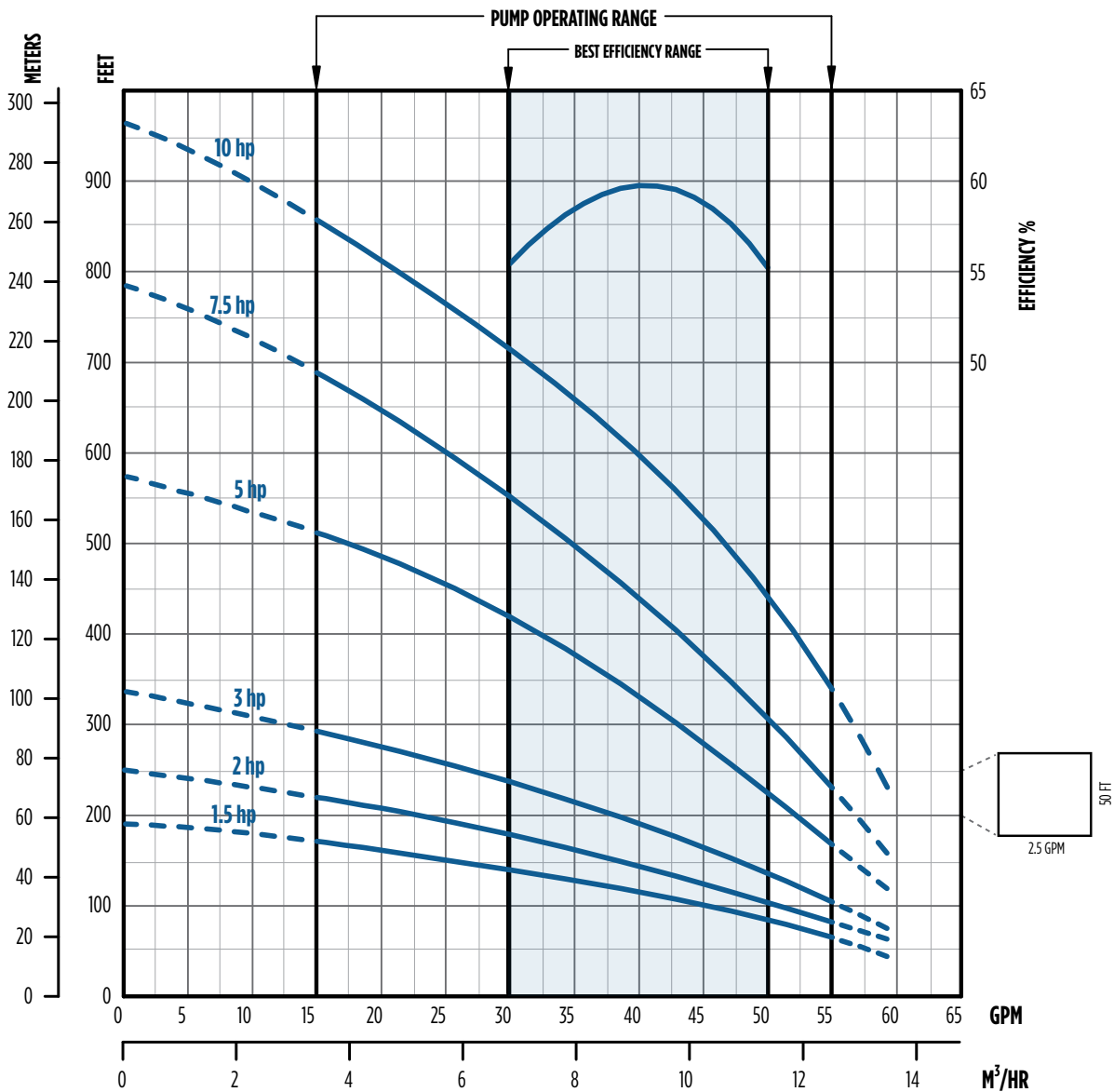
## PERFORMANCE





# 4" HIGH CAPACITY PUMPS - 45 GPM

## PERFORMANCE



## 4" HIGH CAPACITY PUMPS - 60 GPM

### CAPACITIES IN U.S. GALLONS PER MINUTE

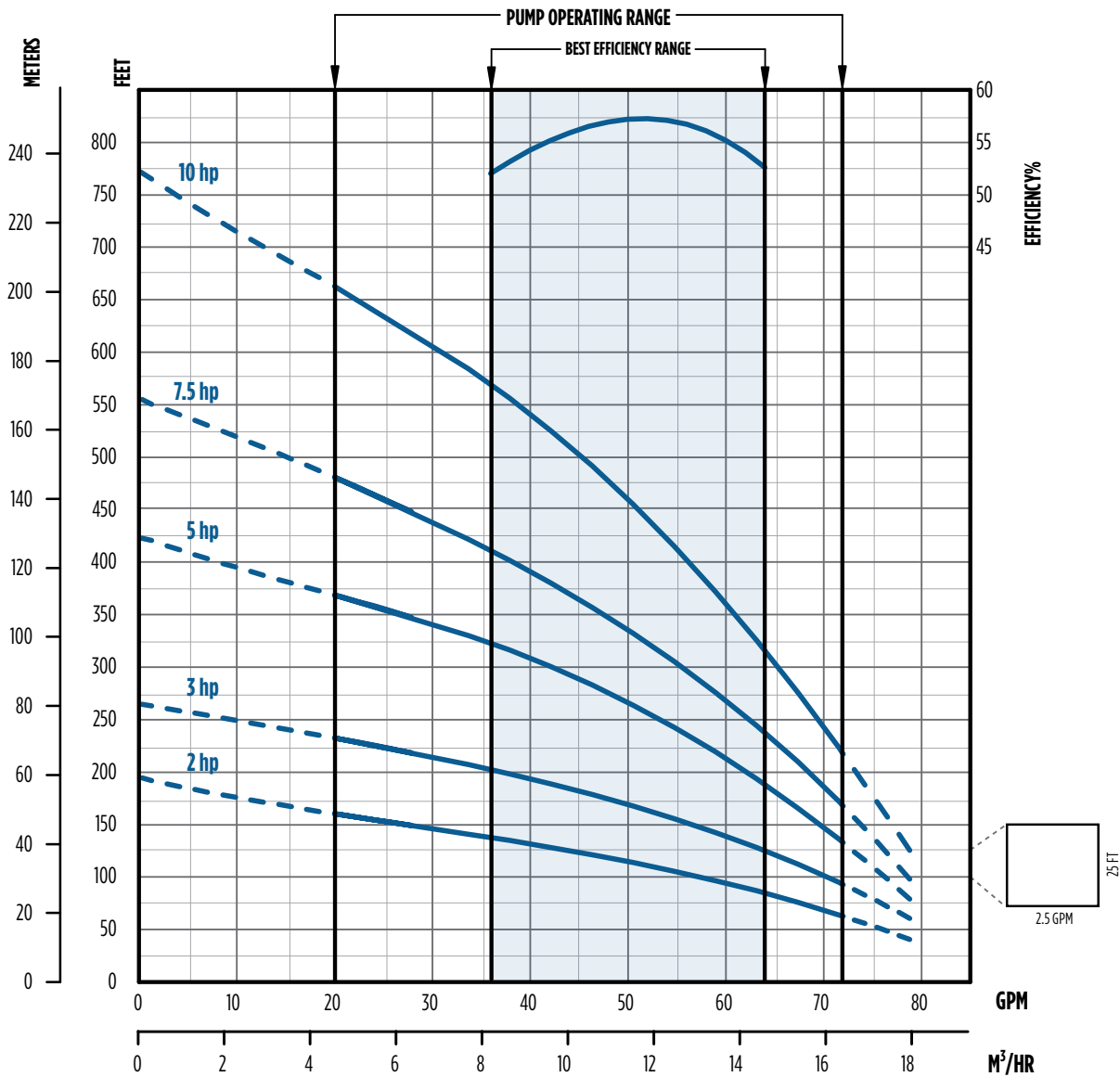
| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |    |    |    |
| 2            | 0   |   |     |     | 66  | 57  | 47  | 35  | 21  |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 10  |   |     | 65  | 56  | 45  | 33  | 18  |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 20  | 71  | 63  | 54  | 43  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 30  | 62  | 52  | 41  | 28  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 40  | 51  | 40  | 26  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 50  | 38  | 24  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 60  | 22  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| Shut-off PSI |     | 76  | 67  | 58  | 50  | 41  | 32  | 24  | 15  |     |     |     |     |     |     |     |     |     |    |    |    |
| 3            | 0   |   |     |     |     | 70  | 66  | 60  | 53  | 46  | 37  |     |     |     |     |     |     |     |    |    |    |
|              | 10  |   |     |     | 69  | 65  | 59  | 62  | 44  | 35  | 25  |     |     |     |     |     |     |     |    |    |    |
|              | 20  |   | 73  | 69  | 64  | 56  | 51  | 43  | 34  | 24  |     |     |     |     |     |     |     |     |    |    |    |
|              | 30  | 72  | 68  | 63  | 57  | 50  | 42  | 32  | 22  |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 40  | 67  | 62  | 56  | 49  | 40  | 31  | 20  |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 50  | 61  | 55  | 48  | 39  | 29  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 60  | 54  | 46  | 37  | 28  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| Shut-off PSI |     | 106   | 97  | 89  | 80  | 71  | 63  | 54  | 45  | 37  | 28  |     |     |     |     |     |     |     |    |    |    |
| 5            | 0   |   |     |     |     |     |     | 71  | 68  | 65  | 62  | 54  | 42  | 27  |     |     |     |     |    |    |    |
|              | 10  |   |     |     |     |     | 70  | 68  | 65  | 62  | 59  | 49  | 36  |     |     |     |     |     |    |    |    |
|              | 20  |   |     |     |     | 70  | 67  | 64  | 61  | 58  | 54  | 43  | 28  |     |     |     |     |     |    |    |    |
|              | 30  |   |     | 72  | 69  | 67  | 64  | 61  | 57  | 54  | 50  | 37  | 20  |     |     |     |     |     |    |    |    |
|              | 40  |   | 72  | 69  | 68  | 63  | 60  | 57  | 53  | 49  | 44  | 29  |     |     |     |     |     |     |    |    |    |
|              | 50  | 71  | 69  | 66  | 63  | 60  | 56  | 53  | 48  | 43  | 38  | 21  |     |     |     |     |     |     |    |    |    |
|              | 60  | 68  | 65  | 62  | 59  | 56  | 52  | 48  | 43  | 37  | 31  |     |     |     |     |     |     |     |    |    |    |
|              | 70  | 65  | 62  | 59  | 55  | 51  | 47  | 42  | 36  | 30  | 23  |     |     |     |     |     |     |     |    |    |    |
|              | 80  | 61  | 58  | 55  | 51  | 46  | 41  | 35  | 28  | 21  |     |     |     |     |     |     |     |     |    |    |    |
|              | 90  | 58  | 54  | 50  | 45  | 40  | 34  | 27  | 20  |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 100 | 54  | 49  | 45  | 39  | 33  | 26  |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| Shut-off PSI |     | 175   | 167 | 158 | 149 | 141 | 132 | 123 | 115 | 106 | 97  | 76  | 54  | 32  |     |     |     |     |    |    |    |
| 7.5          | 0   |   |     |     |     |     |     |     | 71  | 68  | 63  | 56  | 48  | 38  | 27  |     |     |     |    |    |    |
|              | 10  |   |     |     |     |     |     | 72  | 70  | 68  | 65  | 59  | 52  | 43  | 33  | 22  |     |     |    |    |    |
|              | 20  |   |     |     |     |     | 72  | 70  | 68  | 65  | 63  | 56  | 48  | 39  | 28  |     |     |     |    |    |    |
|              | 30  |   |     |     |     | 71  | 70  | 67  | 65  | 63  | 60  | 53  | 44  | 34  | 23  |     |     |     |    |    |    |
|              | 40  |   |     |     | 71  | 69  | 67  | 65  | 62  | 60  | 57  | 49  | 40  | 29  |     |     |     |     |    |    |    |
|              | 50  |   |     | 71  | 69  | 67  | 64  | 62  | 59  | 56  | 53  | 45  | 35  | 24  |     |     |     |     |    |    |    |
|              | 60  |   | 71  | 69  | 66  | 64  | 61  | 59  | 56  | 53  | 49  | 40  | 30  |     |     |     |     |     |    |    |    |
|              | 70  | 70  | 68  | 66  | 64  | 61  | 58  | 55  | 52  | 48  | 45  | 36  | 25  |     |     |     |     |     |    |    |    |
|              | 80  | 68  | 66  | 63  | 61  | 58  | 55  | 52  | 48  | 45  | 41  | 31  |     |     |     |     |     |     |    |    |    |
|              | 90  | 65  | 63  | 60  | 57  | 54  | 51  | 48  | 44  | 41  | 37  | 26  |     |     |     |     |     |     |    |    |    |
|              | 100 | 62  | 60  | 57  | 54  | 51  | 47  | 44  | 40  | 36  | 32  | 20  |     |     |     |     |     |     |    |    |    |
|              | 110 | 59  | 57  | 53  | 50  | 47  | 43  | 39  | 35  | 31  | 26  |     |     |     |     |     |     |     |    |    |    |
|              | 120 | 56  | 53  | 50  | 46  | 43  | 39  | 35  | 30  | 26  | 21  |     |     |     |     |     |     |     |    |    |    |
|              | 130 | 52  | 49  | 46  | 42  | 38  | 34  | 30  | 25  | 20  |     |     |     |     |     |     |     |     |    |    |    |
|              | 140 | 49  | 45  | 41  | 37  | 33  | 29  | 24  | 19  |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 150 | 45  | 41  | 37  | 33  | 28  | 24  |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|              | 160 | 31  | 26  | 21  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| Shut-off PSI |     | 232   | 223 | 214 | 206 | 197 | 188 | 180 | 171 | 162 | 154 | 132 | 110 | 89  | 67  | 45  |     |     |    |    |    |
| 10           | 0   |   |     |     |     |     |     |     |     |     |     | 69  | 65  | 61  | 57  | 51  | 45  | 39  | 31 | 22 |    |
|              | 10  |   |     |     |     |     |     |     |     |     | 72  | 71  | 69  | 66  | 61  | 57  | 52  | 46  | 39 | 31 | 23 |
|              | 20  |   |     |     |     |     |     |     |     | 72  | 71  | 69  | 68  | 64  | 59  | 55  | 49  | 43  | 36 | 28 | 24 |
|              | 30  |   |     |     |     |     |     |     | 72  | 70  | 69  | 67  | 66  | 64  | 60  | 55  | 50  | 43  | 36 | 28 | 24 |
|              | 40  |   |     |     |     |     |     | 72  | 70  | 69  | 67  | 66  | 64  | 60  | 55  | 50  | 43  | 36  | 28 | 24 |    |
|              | 50  |   |     |     |     |     | 72  | 70  | 68  | 67  | 65  | 64  | 62  | 58  | 53  | 47  | 40  | 33  | 24 |    |    |
|              | 60  |   |     |     | 72  | 70  | 68  | 67  | 65  | 64  | 62  | 60  | 58  | 53  | 47  | 41  | 33  | 25  |    |    |    |
|              | 70  |   |     | 71  | 70  | 68  | 67  | 65  | 64  | 62  | 60  | 58  | 56  | 51  | 44  | 37  | 29  | 20  |    |    |    |
|              | 80  |   | 71  | 70  | 68  | 66  | 65  | 63  | 62  | 60  | 58  | 53  | 47  | 41  | 33  | 25  |     |     |    |    |    |
|              | 90  | 71  | 69  | 68  | 66  | 65  | 63  | 61  | 60  | 58  | 56  | 51  | 44  | 37  | 29  | 21  |     |     |    |    |    |
|              | 100 | 69  | 68  | 66  | 64  | 63  | 61  | 59  | 57  | 56  | 53  | 48  | 41  | 34  | 26  |     |     |     |    |    |    |
|              | 110 | 67  | 66  | 64  | 62  | 61  | 59  | 57  | 55  | 53  | 51  | 45  | 38  | 30  | 22  |     |     |     |    |    |    |
|              | 120 | 65  | 64  | 62  | 61  | 59  | 57  | 55  | 53  | 51  | 48  | 42  | 34  | 26  |     |     |     |     |    |    |    |
|              | 130 | 64  | 62  | 60  | 58  | 57  | 55  | 52  | 51  | 48  | 45  | 39  | 31  | 22  |     |     |     |     |    |    |    |
|              | 140 | 62  | 60  | 58  | 56  | 54  | 52  | 50  | 48  | 45  | 42  | 35  | 27  |     |     |     |     |     |    |    |    |
|              | 150 | 60  | 58  | 56  | 54  | 52  | 50  | 47  | 45  | 42  | 39  | 31  | 23  |     |     |     |     |     |    |    |    |
|              | 160 | 53  | 51  | 48  | 46  | 43  | 41  | 38  | 35  | 31  | 28  |     |     |     |     |     |     |     |    |    |    |
| Shut-off PSI |     | 326   | 317 | 308 | 300 | 291 | 282 | 274 | 265 | 256 | 248 | 226 | 204 | 183 | 161 | 139 | 118 | 96  | 74 | 53 |    |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage. 3. Performances for former XP models are the same as 60 gpm models.



# 4" HIGH CAPACITY PUMPS - 60 GPM

## PERFORMANCE



## 4" HIGH CAPACITY PUMPS - 90 GPM

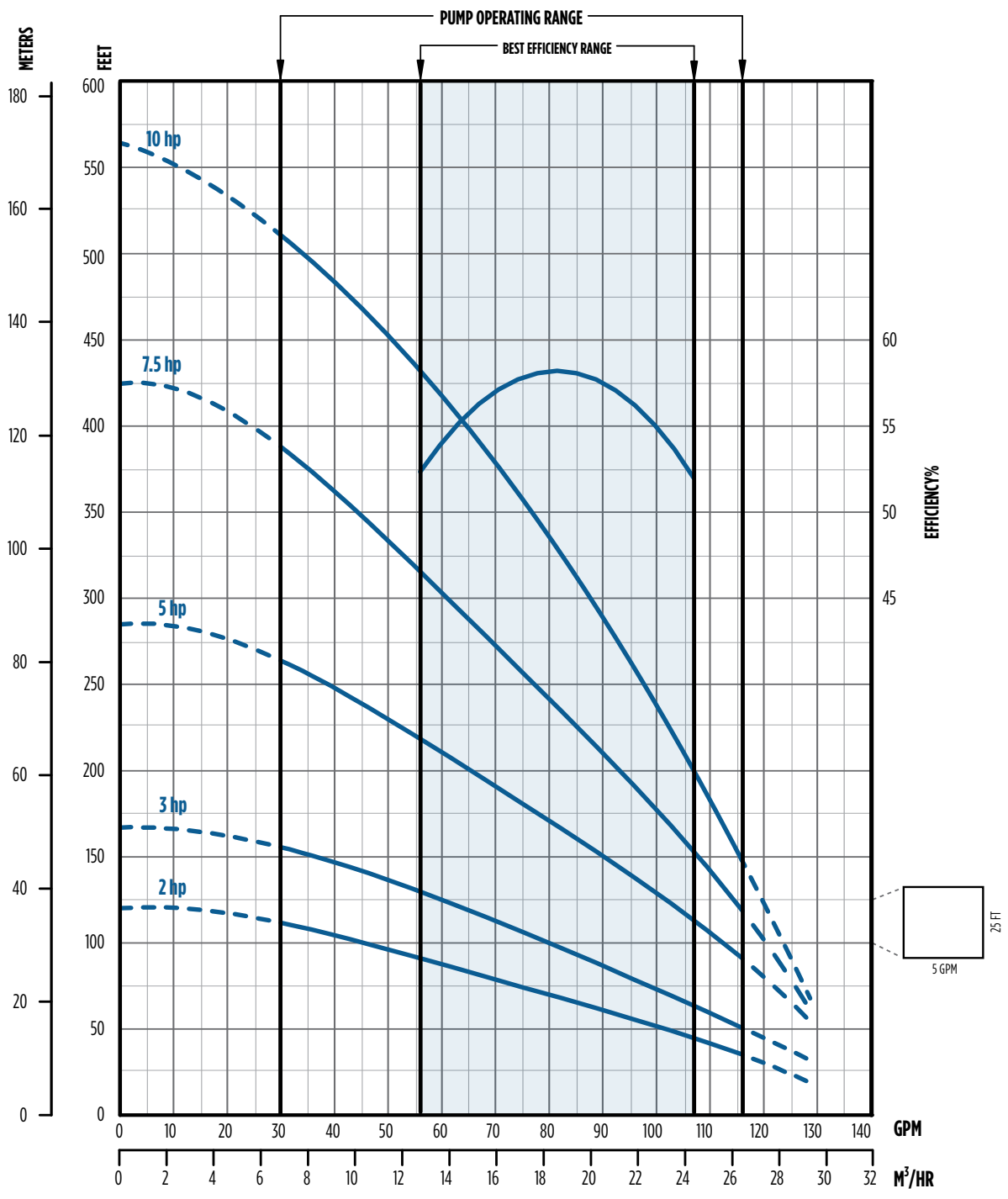
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|--------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|              |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |    |    |
| 2            | 0            |   | 113 | 92  | 67  | 48  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 10           | 110   | 88  | 64  | 45  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 20           | 84  | 61  | 40  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 30           | 58  | 35  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 43  | 35  | 26  | 17  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 3            | 0            |   |     | 110 | 96  | 79  | 64  | 49  |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 10           |   | 108 | 93  | 76  | 61  | 46  |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 20           | 106   | 90  | 74  | 59  | 43  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 30           | 88  | 71  | 57  | 39  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           | 69  | 55  | 35  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           | 53  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 64  | 55  | 46  | 38  | 29  | 20  | 12  |     |     |     |     |     |     |     |     |     |     |    |    |
| 5            | 0            |   |     |     |     | 113 | 106 | 96  | 85  | 74  | 64  | 41  |     |     |     |     |     |     |    |    |
|              | 10           |   |     |     | 112 | 104 | 94  | 83  | 72  | 63  | 55  |     |     |     |     |     |     |     |    |    |
|              | 20           |   |     | 111 | 103 | 92  | 81  | 71  | 62  | 53  | 44  |     |     |     |     |     |     |     |    |    |
|              | 30           |   | 110 | 101 | 91  | 80  | 69  | 60  | 52  | 42  |     |     |     |     |     |     |     |     |    |    |
|              | 40           | 100   | 100 | 89  | 78  | 68  | 59  | 51  | 40  |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           | 98  | 87  | 76  | 66  | 58  | 49  | 38  |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 60           | 85  | 75  | 65  | 56  | 48  | 35  |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 70           | 73  | 63  | 55  | 46  | 33  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 80           | 62  | 54  | 45  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 90           | 53  | 43  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 100          | 41  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 115   | 106 | 97  | 89  | 80  | 71  | 63  | 54  | 45  | 37  | 15  |     |     |     |     |     |     |    |    |
| 7.5          | 0            |   |     |     |     |     | 116 | 112 | 107 | 101 | 94  | 76  | 60  | 46  |     |     |     |     |    |    |
|              | 10           |   |     |     |     | 115 | 111 | 108 | 100 | 93  | 86  | 68  | 54  | 38  |     |     |     |     |    |    |
|              | 20           |   |     |     | 115 | 110 | 105 | 99  | 92  | 85  | 77  | 61  | 47  |     |     |     |     |     |    |    |
|              | 30           |   |     | 114 | 109 | 104 | 98  | 91  | 83  | 76  | 70  | 55  | 40  |     |     |     |     |     |    |    |
|              | 40           |   | 113 | 109 | 103 | 96  | 90  | 82  | 75  | 69  | 62  | 49  |     |     |     |     |     |     |    |    |
|              | 50           | 113   | 108 | 102 | 95  | 88  | 81  | 74  | 68  | 61  | 56  | 41  |     |     |     |     |     |     |    |    |
|              | 60           | 107   | 101 | 94  | 87  | 80  | 73  | 67  | 61  | 55  | 50  | 31  |     |     |     |     |     |     |    |    |
|              | 70           | 100   | 93  | 86  | 79  | 72  | 66  | 60  | 54  | 49  | 42  |     |     |     |     |     |     |     |    |    |
|              | 80           | 92  | 85  | 78  | 71  | 65  | 59  | 53  | 48  | 41  | 33  |     |     |     |     |     |     |     |    |    |
|              | 90           | 84  | 77  | 70  | 64  | 58  | 53  | 47  | 40  | 31  |     |     |     |     |     |     |     |     |    |    |
|              | 100          | 76  | 69  | 63  | 57  | 52  | 46  | 39  |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 110          | 68  | 62  | 56  | 51  | 45  | 38  |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 120          | 61  | 55  | 50  | 44  | 36  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 130          | 55  | 49  | 43  | 35  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 140          | 48  | 42  | 33  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 150          | 41  | 32  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 160          |              |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 175   | 167 | 158 | 149 | 141 | 132 | 123 | 115 | 106 | 97  | 76  | 54  | 32  |     |     |     |     |    |    |
| 10           | 0            |   |     |     |     | 122 | 119 | 116 | 113 | 109 | 106 | 99  | 91  | 83  | 75  | 65  | 54  | 42  | 35 | 11 |
|              | 10           |   |     |     | 122 | 119 | 116 | 112 | 109 | 106 | 102 | 95  | 87  | 78  | 69  | 59  | 48  | 34  | 25 |    |
|              | 20           |   |     | 121 | 118 | 115 | 112 | 108 | 105 | 101 | 98  | 90  | 82  | 73  | 64  | 53  | 40  | 24  | 13 |    |
|              | 30           |   | 121 | 118 | 115 | 111 | 108 | 104 | 101 | 97  | 94  | 86  | 77  | 68  | 57  | 46  | 31  | 11  |    |    |
|              | 40           | 120   | 117 | 114 | 111 | 107 | 104 | 100 | 97  | 93  | 89  | 81  | 72  | 62  | 51  | 38  | 21  |     |    |    |
|              | 50           | 117   | 114 | 110 | 107 | 103 | 100 | 96  | 92  | 88  | 84  | 76  | 66  | 56  | 44  | 29  | 7   |     |    |    |
|              | 60           | 113   | 110 | 106 | 103 | 99  | 96  | 92  | 88  | 84  | 79  | 70  | 60  | 49  | 35  | 18  |     |     |    |    |
|              | 70           | 109   | 106 | 102 | 99  | 95  | 91  | 87  | 83  | 79  | 74  | 65  | 54  | 41  | 26  | 2   |     |     |    |    |
|              | 80           | 105   | 102 | 98  | 94  | 91  | 87  | 82  | 78  | 74  | 69  | 59  | 47  | 33  | 14  |     |     |     |    |    |
|              | Shut-off PSI |   | 236 | 227 | 219 | 210 | 201 | 193 | 184 | 175 | 167 | 158 | 141 | 123 | 106 | 89  | 71  | 54  | 37 | 28 |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 4" HIGH CAPACITY PUMPS - 90 GPM

## PERFORMANCE



## 6" HIGH CAPACITY PUMPS

Ideal for farm, home, irrigation, industry, municipal, and commercial applications, equipped with the power, performance, and reliability you expect from Franklin Electric.

Flow ratings of 50, 75, 100, and 125 gpm with TDH up to 1200 ft.

Horsepower ranges from 1-1/2 to 40 hp.

### FEATURES

- Heavy-duty stainless steel discharge head and motor bracket
- Stainless steel shaft, shell, intake screen, and cable guard provides corrosion resistance and longer pump life
- Glass-filled Modified PPO impeller stage assemblies provide exceptional strength and durability
- Ceramic shaft sleeve and rubber discharge bearing minimizes bearing wear and shaft misalignment
- 3" NPT heavy-duty stainless steel discharge head
- Modular motor bracket enabling 4" or 6" motor mount for 5-10 hp units



## 6" HIGH CAPACITY PUMPS - ORDERING INFORMATION

### ORDERING INFORMATION

| 6" Pump Ends |     |        |           |                |          |                 |           |
|--------------|-----|--------|-----------|----------------|----------|-----------------|-----------|
| GPM          | HP  | Stages | Motor Fit | Ordering Info. |          | Dimensions (in) | Wt. (lbs) |
|              |     |        |           | Model          | Order    | Pump End Only   |           |
| 50           | 1.5 | 3      | 4"        | 50FA1S6-PE     | 94825003 | 13.51           | 30        |
|              | 2   | 4      | 4"        | 50FA2S6-PE     | 94825004 | 15.13           | 31        |
|              | 3   | 5      | 4"        | 50FA3S6-PE     | 94825005 | 16.76           | 32        |
|              | 5   | 8      | 4" & 6"   | 50FA5S6-PE     | 94825008 | 21.63           | 36        |
|              | 7.5 | 11     | 4" & 6"   | 50FA7S6-PE     | 94825011 | 26.51           | 40        |
|              | 10  | 15     | 4" & 6"   | 50FA10S6-PE    | 94825015 | 32.94           | 46        |
|              | 15  | 22     | 4" & 6"   | 50FA15S6-PE    | 94825022 | 47.64           | 54        |
| 75           | 3   | 3      | 4"        | 75FA3S6-PE     | 94827503 | 13.51           | 30        |
|              | 5   | 5      | 4" & 6"   | 75FA5S6-PE     | 94827505 | 16.76           | 32        |
|              | 7.5 | 7      | 4" & 6"   | 75FA7S6-PE     | 94827507 | 20.01           | 35        |
|              | 10  | 9      | 4" & 6"   | 75FA10S6-PE    | 94827509 | 23.26           | 38        |
|              | 15  | 13     | 6"        | 75FA15S6-PE    | 94827513 | 29.76           | 43        |
|              | 20  | 17     | 6"        | 75FA20S6-PE    | 94827517 | 36.19           | 48        |
|              | 25  | 23     | 6"        | 75FA25S6-PE    | 94827523 | 46.00           | 54        |
| 100          | 5   | 3      | 4" & 6"   | 100FA5S6-PE    | 94820003 | 14.62           | 30        |
|              | 7.5 | 5      | 4" & 6"   | 100FA7S6-PE    | 94820005 | 18.51           | 32        |
|              | 10  | 6      | 4" & 6"   | 100FA10S6-PE   | 94820006 | 20.49           | 34        |
|              | 15  | 9      | 6"        | 100FA15S6-PE   | 94820009 | 26.31           | 38        |
|              | 20  | 13     | 6"        | 100FA20S6-PE   | 94820013 | 34.07           | 43        |
|              | 25  | 16     | 6"        | 100FA25S6-PE   | 94820016 | 39.94           | 47        |
| 125          | 5   | 2      | 4" & 6"   | 125FA5S6-PE    | 94822502 | 12.94           | 29        |
|              | 7.5 | 3      | 4" & 6"   | 125FA7S6-PE    | 94822503 | 15.05           | 30        |
|              | 10  | 4      | 4" & 6"   | 125FA10S6-PE   | 94822504 | 17.13           | 31        |
|              | 15  | 7      | 6"        | 125FA15S6-PE   | 94822507 | 23.37           | 35        |
|              | 20  | 9      | 6"        | 125FA20S6-PE   | 94822509 | 27.54           | 38        |
|              | 25  | 11     | 6"        | 125FA25S6-PE   | 94822511 | 31.70           | 40        |
|              | 30  | 13     | 6"        | 125FA30S6-PE   | 94822513 | 35.87           | 43        |
|              | 40  | 18     | 6"        | 125FA40S6-PE   | 94822518 | 46.27           | 48        |

**Notes:** Discharge is 3" NPT. Maximum diameter across cable guard is 5.50" on all models.

## 6" HIGH CAPACITY PUMPS - 50 GPM

### CAPACITIES IN U.S. GALLONS PER MINUTE

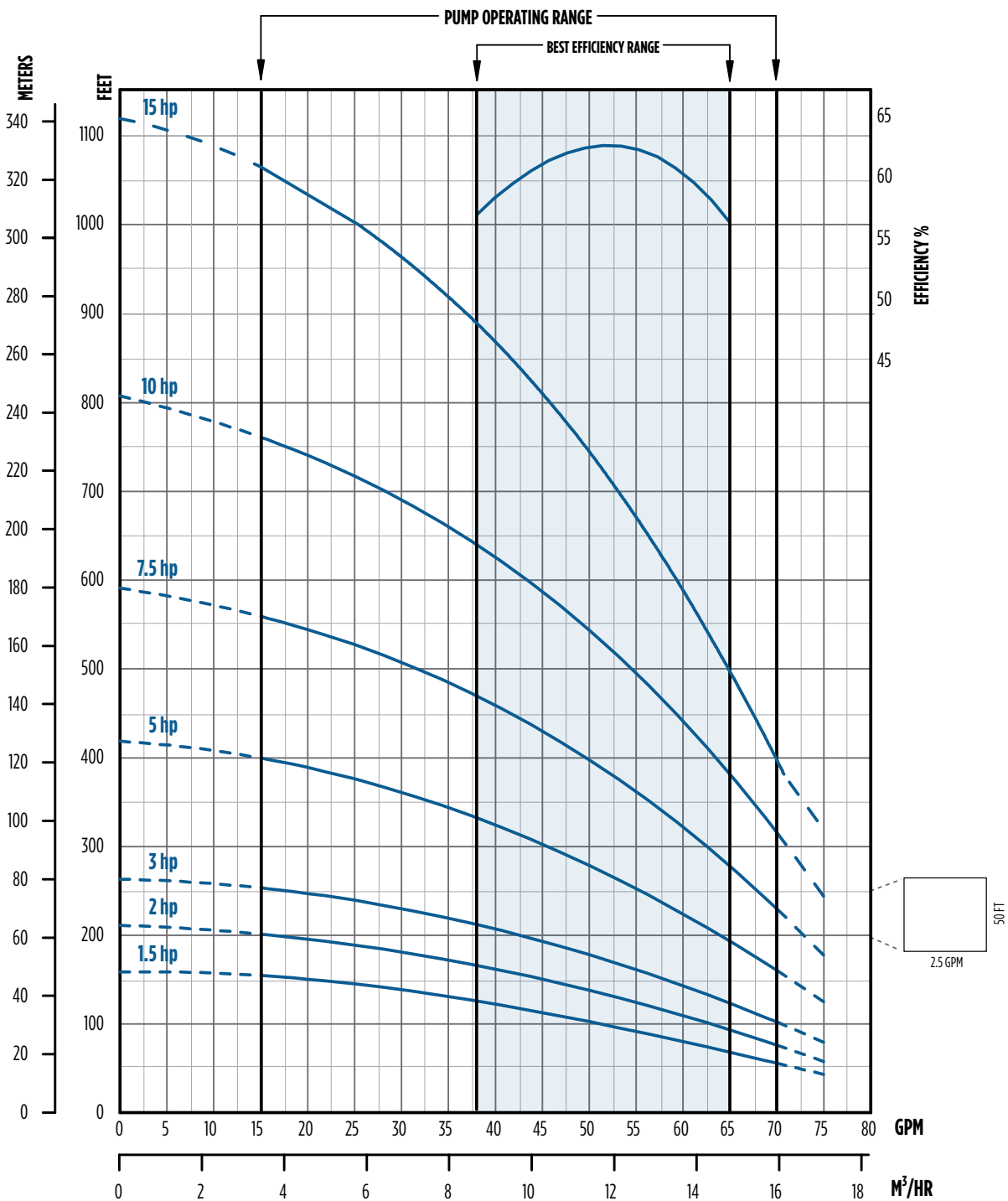
| HP           | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|--------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|              |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |    |    |
| 1.5          | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 20           | 66  | 58  | 47  | 38  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 30           | 56  | 46  | 37  | 21  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           | 44  | 35  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           | 33  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 60  | 51  | 43  | 34  | 25  | 17  | 8   |     |     |     |     |     |     |     |     |     |     |    |    |
| 2            | 0            |   |     |     |     | 69  | 63  | 57  | 49  | 41  | 31  | 16  |     |     |     |     |     |     |    |    |
|              | 20           |   | 67  | 62  | 54  | 46  | 38  | 27  |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 30           | 67  | 60  | 53  | 45  | 37  | 25  |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           | 59  | 52  | 44  | 35  | 23  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           | 51  | 42  | 34  | 20  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 83  | 74  | 65  | 57  | 48  | 39  | 31  | 22  | 13  | 5   |     |     |     |     |     |     |     |    |    |
| 3            | 0            |   |     |     |     | 70  | 66  | 61  | 55  | 49  | 42  | 17  |     |     |     |     |     |     |    |    |
|              | 20           |   |     |     | 69  | 65  | 60  | 53  | 47  | 40  | 33  | 21  |     |     |     |     |     |     |    |    |
|              | 30           |   | 68  | 64  | 59  | 52  | 46  | 39  | 31  | 18  |     |     |     |     |     |     |     |     |    |    |
|              | 40           | 68  | 63  | 58  | 51  | 45  | 38  | 30  | 15  |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           | 63  | 57  | 50  | 44  | 37  | 28  |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 105   | 97  | 88  | 79  | 71  | 62  | 53  | 45  | 36  | 27  | 6   |     |     |     |     |     |     |    |    |
| 5            | 0            |   |     |     |     |     |     |     | 70  | 67  | 64  | 55  | 45  | 34  |     |     |     |     |    |    |
|              | 20           |   |     |     |     |     |     | 69  | 66  | 63  | 60  | 56  | 46  | 35  | 16  |     |     |     |    |    |
|              | 30           |   |     |     |     | 69  | 66  | 63  | 59  | 56  | 51  | 41  | 28  |     |     |     |     |     |    |    |
|              | 40           |   |     |     | 68  | 66  | 62  | 59  | 55  | 51  | 47  | 36  | 18  |     |     |     |     |     |    |    |
|              | 50           |   | 70  | 68  | 65  | 62  | 58  | 54  | 50  | 46  | 42  | 29  |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 173   | 164 | 155 | 147 | 138 | 129 | 121 | 112 | 103 | 95  | 73  | 51  | 30  |     |     |     |     |    |    |
| 7.5          | 0            |   |     |     |     |     |     |     |     |     |     |     | 68  | 63  | 57  | 49  | 42  | 32  | 18 |    |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     | 70  | 68  | 63  | 57  | 50  | 42  | 33 | 19 |
|              | 30           |   |     |     |     |     |     |     |     |     | 70  | 68  | 66  | 66  | 60  | 54  | 47  | 38  | 27 |    |
|              | 40           |   |     |     |     |     |     |     |     |     | 70  | 68  | 66  | 64  | 58  | 51  | 43  | 34  | 21 |    |
|              | 50           |   |     |     |     |     |     |     |     |     | 69  | 67  | 65  | 63  | 61  | 54  | 47  | 39  | 28 |    |
| Shut-off PSI |              | 247   | 239 | 230 | 221 | 213 | 204 | 195 | 187 | 178 | 169 | 148 | 126 | 104 | 83  | 61  | 39  | 18  |    |    |
| 10           | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| Shut-off PSI |              | 306   | 298 | 289 | 281 | 272 | 263 | 242 | 220 | 198 | 177 | 155 | 133 | 112 | 90  | 68  | 47  | 25  |    |    |
| 15           | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 100          |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 120          |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 140          |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | 160          |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|              | Shut-off PSI |   | 67  | 66  | 65  | 64  | 62  | 61  | 59  | 58  | 55  | 52  | 48  | 45  | 41  | 36  | 31  | 24  | 16 | 5  |

**Discharge 3" NPT**

**Notes:** 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 6" HIGH CAPACITY PUMPS - 50 GPM

## PERFORMANCE



## 6" HIGH CAPACITY PUMPS - 75 GPM

### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |    |    |    |    |
| 3            | 0   |   |     | 108 | 101 | 89  | 77  | 64  | 26  |     |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 20  | 106   | 98  | 85  | 73  | 57  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 30  | 96  | 83  | 72  | 53  |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 40  | 81  | 70  | 47  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 50  | 68  | 40  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| Shut-off PSI |     | 61  | 53  | 44  | 35  | 27  | 18  | 9   | 1   |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 5            | 0   |   |     |     | 116 | 106 | 102 | 96  | 88  | 79  | 73  | 41  |     |     |     |     |     |     |    |    |    |    |
|              | 20  |   | 112 | 105 | 100 | 93  | 85  | 77  | 71  | 64  | 47  |     |     |     |     |     |     |     |    |    |    |    |
|              | 30  | 110   | 104 | 99  | 92  | 84  | 76  | 70  | 63  | 43  |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 40  | 103   | 98  | 91  | 82  | 75  | 69  | 61  | 37  |     |     |     |     |     |     |     |     |     |    |    |    |    |
|              | 50  | 97  | 89  | 81  | 74  | 68  | 58  | 31  |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| Shut-off PSI |     | 103   | 95  | 86  | 77  | 69  | 60  | 51  | 45  | 34  | 25  | 4   |     |     |     |     |     |     |    |    |    |    |
| 7.5          | 0   |   |     |     |     | 116 | 109 | 105 | 101 | 97  | 83  | 70  | 54  |     |     |     |     |     |    |    |    |    |
|              | 20  |   |     |     | 114 | 108 | 104 | 100 | 96  | 90  | 85  | 71  | 56  |     |     |     |     |     |    |    |    |    |
|              | 30  |   |     | 112 | 107 | 103 | 99  | 95  | 89  | 84  | 78  | 65  | 40  |     |     |     |     |     |    |    |    |    |
|              | 40  |   | 111 | 106 | 103 | 99  | 94  | 88  | 83  | 77  | 72  | 57  |     |     |     |     |     |     |    |    |    |    |
|              | 50  | 111   | 106 | 102 | 98  | 93  | 88  | 82  | 76  | 71  | 66  | 43  |     |     |     |     |     |     |    |    |    |    |
| Shut-off PSI |     | 159   | 150 | 142 | 133 | 124 | 116 | 107 | 98  | 90  | 81  | 59  | 38  | 16  |     |     |     |     |    |    |    |    |
| 10           | 0   |   |     |     |     |     |     |     | 112 | 109 | 106 | 98  | 88  | 77  | 66  | 50  |     |     |    |    |    |    |
|              | 20  |   |     |     |     | 116 | 111 | 108 | 105 | 102 | 99  | 89  | 78  | 67  | 52  |     |     |     |    |    |    |    |
|              | 30  |   |     |     | 115 | 111 | 107 | 104 | 101 | 98  | 94  | 84  | 73  | 61  | 39  |     |     |     |    |    |    |    |
|              | 40  |   |     | 114 | 110 | 107 | 104 | 101 | 98  | 94  | 89  | 78  | 68  | 54  | 18  |     |     |     |    |    |    |    |
|              | 50  |   | 114 | 109 | 106 | 104 | 100 | 97  | 93  | 89  | 84  | 74  | 63  | 42  |     |     |     |     |    |    |    |    |
| Shut-off PSI |     | 205   | 196 | 187 | 179 | 170 | 161 | 153 | 144 | 135 | 127 | 105 | 84  | 62  | 40  | 19  |     |     |    |    |    |    |
| 15           | 0   |   |     |     |     |     |     |     |     | 112 | 107 | 103 | 100 | 94  | 88  | 82  | 76  | 71  | 66 | 58 | 43 |    |
|              | 20  |   |     |     |     |     | 115 | 107 | 103 | 97  | 90  | 82  | 75  | 69  | 61  | 43  |     |     |    |    |    |    |
|              | 30  |   |     |     | 114 | 110 | 105 | 100 | 94  | 86  | 78  | 72  | 66  | 55  | 28  |     |     |     |    |    |    |    |
|              | 40  |   |     | 113 | 110 | 107 | 103 | 98  | 90  | 82  | 75  | 69  | 62  | 45  |     |     |     |     |    |    |    |    |
|              | 50  |   | 113 | 109 | 107 | 105 | 101 | 95  | 87  | 79  | 73  | 66  | 56  | 31  |     |     |     |     |    |    |    |    |
| Shut-off PSI |     | 263   | 254 | 245 | 237 | 228 | 206 | 185 | 163 | 142 | 120 | 98  | 77  | 55  | 33  | 12  |     |     |    |    |    |    |
| 20           | 0   |   |     |     |     |     |     |     | 113 | 107 | 103 | 100 | 94  | 88  | 82  | 76  | 71  | 66  | 58 | 43 |    |    |
|              | 20  |   |     |     |     |     | 113 | 107 | 104 | 100 | 95  | 89  | 82  | 76  | 72  | 67  | 59  | 44  |    |    |    |    |
|              | 30  |   |     |     |     |     | 110 | 106 | 102 | 98  | 92  | 86  | 79  | 74  | 69  | 64  | 54  | 33  |    |    |    |    |
|              | 40  |   |     |     |     | 114 | 108 | 104 | 100 | 95  | 89  | 83  | 77  | 72  | 67  | 60  | 46  |     |    |    |    |    |
|              | 50  |   |     |     |     | 110 | 106 | 102 | 98  | 93  | 86  | 80  | 74  | 70  | 64  | 55  | 35  |     |    |    |    |    |
| Shut-off PSI |     | 353   | 345 | 336 | 327 | 319 | 297 | 275 | 254 | 232 | 210 | 189 | 167 | 145 | 124 | 102 | 80  | 59  | 37 | 15 |    |    |
| 25           | 0   |   |     |     |     |     |     |     |     | 101 | 97  | 93  | 89  | 84  | 79  | 75  | 70  | 65  | 59 | 50 | 38 | 19 |
|              | 20  |   |     | 116 | 112 | 109 | 107 | 104 | 101 | 98  | 93  | 89  | 84  | 80  | 75  | 70  | 65  | 59  | 51 | 39 | 21 |    |
|              | 30  |   |     | 114 | 111 | 108 | 106 | 103 | 100 | 96  | 91  | 87  | 82  | 78  | 73  | 68  | 63  | 56  | 46 | 31 |    |    |
|              | 40  |   |     | 112 | 109 | 107 | 104 | 101 | 98  | 94  | 89  | 85  | 80  | 75  | 71  | 66  | 60  | 51  | 40 | 23 |    |    |
|              | 50  | 114   | 111 | 108 | 106 | 103 | 100 | 96  | 92  | 87  | 83  | 78  | 73  | 69  | 63  | 56  | 47  | 33  |    |    |    |    |
| Shut-off PSI |     | 412   | 391 | 369 | 347 | 326 | 304 | 283 | 261 | 239 | 218 | 196 | 174 | 153 | 131 | 109 | 88  | 66  | 44 | 23 | 1  |    |

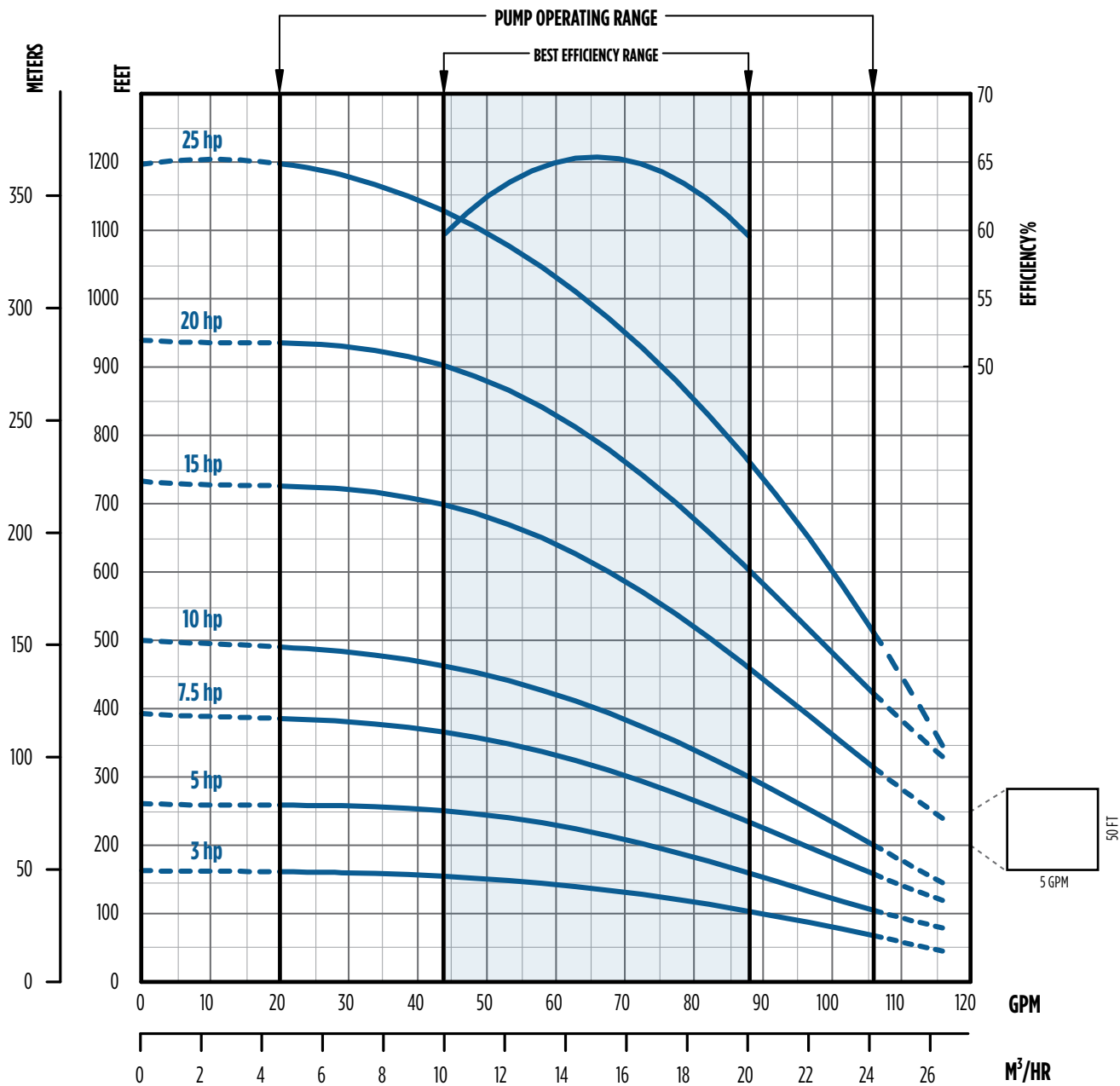
**Discharge 3" NPT**

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# 6" HIGH CAPACITY PUMPS - 75 GPM

## PERFORMANCE



## 6" HIGH CAPACITY PUMPS - 100 GPM

### CAPACITIES IN U.S. GALLONS PER MINUTE

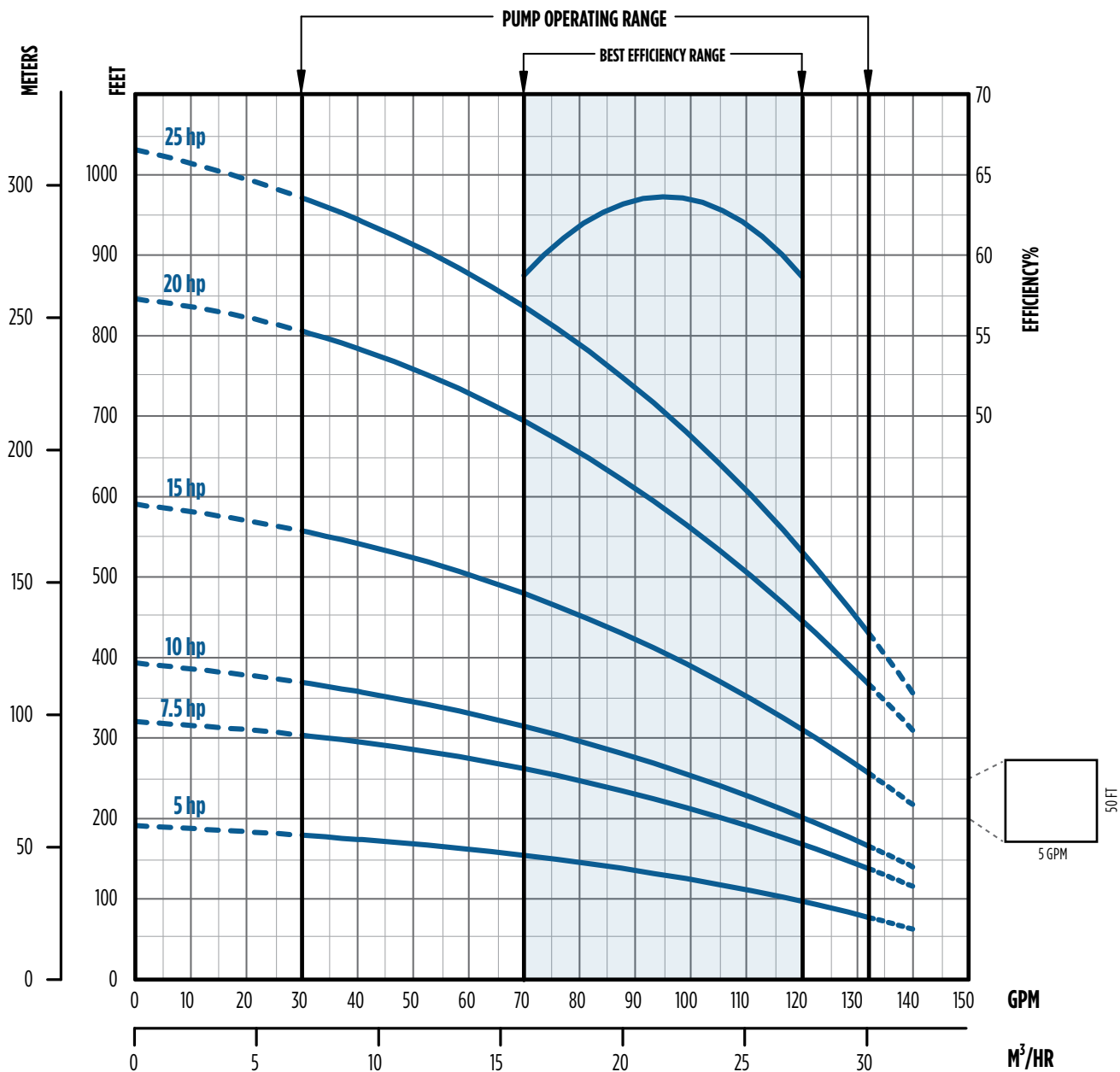
| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
| 5            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 74  | 65  | 57  | 48  | 39  | 31  | 22  | 13  |     |     |     |     |     |     |     |     |     |
| 7.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 130   | 121 | 113 | 104 | 95  | 87  | 78  | 69  | 61  | 52  | 30  | 9   |     |     |     |     |     |
| 10           | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 161   | 153 | 144 | 135 | 127 | 118 | 110 | 101 | 92  | 84  | 62  | 40  | 19  |     |     |     |     |
| 15           | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 247   | 238 | 229 | 221 | 212 | 204 | 195 | 186 | 178 | 169 | 147 | 126 | 104 | 82  | 61  | 39  | 17  |
| 20           | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 280   | 258 | 236 | 215 | 195 | 172 | 150 | 128 | 107 | 85  | 63  | 42  |     |     |     |     |     |
| 25           | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 60  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 70  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 359   | 338 | 316 | 294 | 273 | 251 | 229 | 208 | 186 | 164 | 143 | 121 | 99  |     |     |     |     |

**Discharge 3" NPT**

**Notes:** 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 6" HIGH CAPACITY PUMPS - 100 GPM

## PERFORMANCE



## 6" HIGH CAPACITY PUMPS - 125 GPM

### CAPACITIES IN U.S. GALLONS PER MINUTE

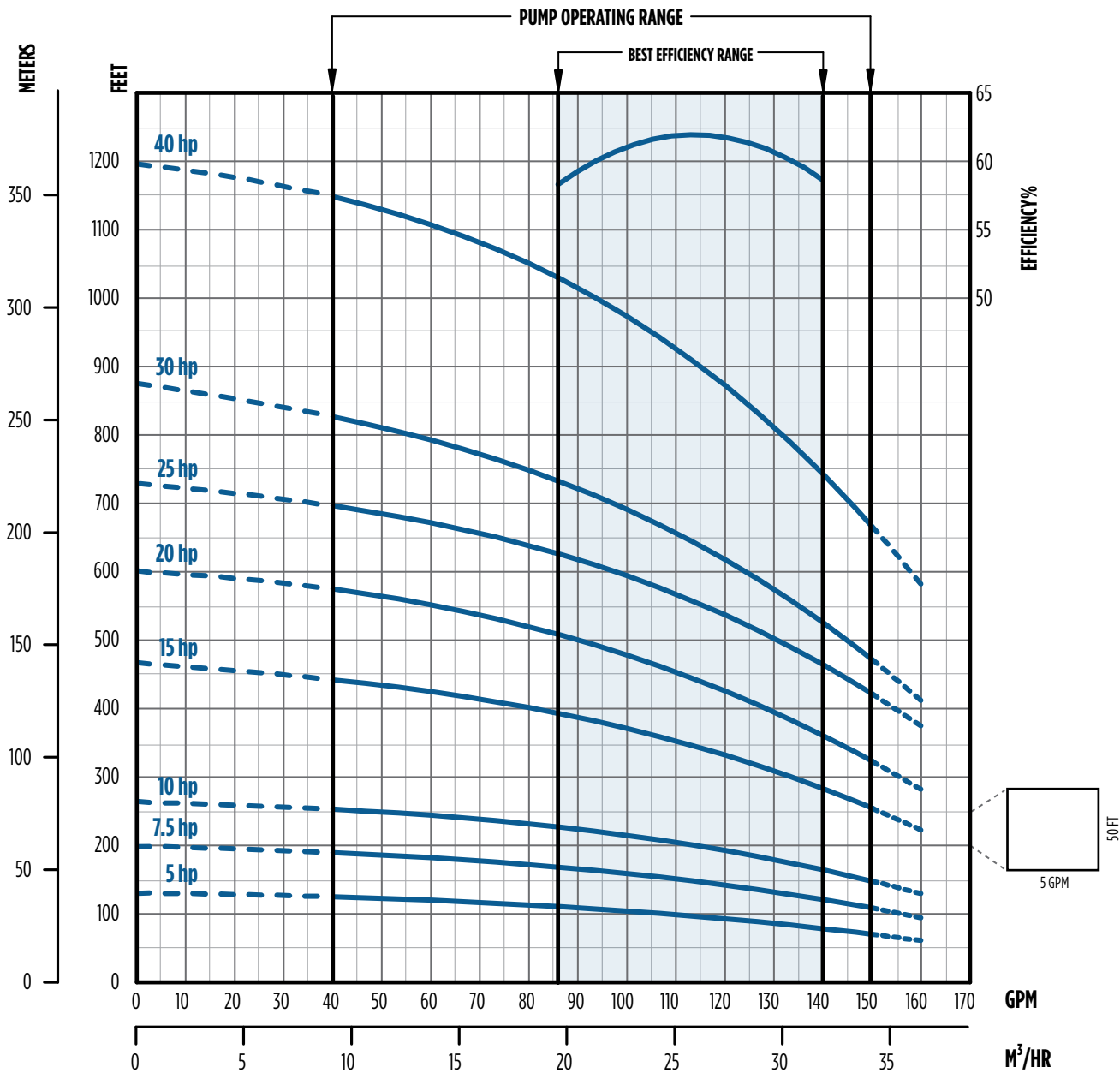
| HP           | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|--------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------------------|
|              |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400  | 450 | 500 | 550 | 600 | 650              |
| 5            | 0            |   |     |     | 140 | 106 | 62  |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 20           |   | 131 | 94  |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 30           | 126   | 88  |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 40           | 82  |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | Shut-off PSI | 48  | 39  | 30  | 22  | 13  | 4   |     |     |     |     |     |     |     |      |     |     |     |     |                  |
| 7.5          | 0            |   |     |     | 135 | 116 | 90  | 48  | 99  | 64  |     |     |     |     |      |     |     |     |     |                  |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 30           |   | 150 | 133 | 112 | 85  |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 40           | 147   | 130 | 109 | 79  |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 50           | 127   | 105 | 73  |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 60           | 101   | 67  |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 70           | 60  |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
| Shut-off PSI | 77           | 69  | 60  | 51  | 43  | 34  | 25  | 17  | 8   |     |     |     |     |     |      |     |     |     |     | Shut-off 198 ft  |
| 10           | 0            |   |     |     |     |     |     |     | 143 | 129 | 114 | 45  |     |     |      |     |     |     |     |                  |
|              | 20           |   |     |     |     |     |     | 139 | 125 | 109 | 88  | 54  |     |     |      |     |     |     |     |                  |
|              | 30           |   |     |     | 149 | 137 | 122 | 106 | 84  | 47  |     |     |     |     |      |     |     |     |     |                  |
|              | 40           |   |     | 148 | 135 | 120 | 103 | 79  |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 50           |   | 146 | 132 | 118 | 100 | 74  |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 60           | 144   | 130 | 115 | 97  | 69  |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 70           | 128   | 112 | 93  | 63  |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
| Shut-off PSI | 105          | 97  | 88  | 79  | 71  | 62  | 53  | 45  | 36  | 27  | 6   |     |     |     |      |     |     |     |     | Shut-off 263 ft  |
| 15           | 0            |   |     |     |     |     |     |     |     |     |     |     | 134 | 112 | 81   |     |     |     |     |                  |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     | 135 | 114 | 84   |     |     |     |     |                  |
|              | 30           |   |     |     |     |     |     |     |     |     |     |     | 145 | 126 | 101  | 65  |     |     |     |                  |
|              | 40           |   |     |     |     |     |     |     | 144 | 137 | 116 | 87  |     |     |      |     |     |     |     |                  |
|              | 50           |   |     |     |     |     |     | 149 | 143 | 136 | 128 | 104 | 68  |     |      |     |     |     |     |                  |
|              | 60           |   |     |     |     |     | 148 | 142 | 134 | 126 | 117 | 89  | 44  |     |      |     |     |     |     |                  |
|              | 70           |   |     |     |     | 147 | 141 | 133 | 125 | 116 | 106 | 72  |     |     |      |     |     |     |     |                  |
| Shut-off PSI |              | 185   | 176 | 168 | 159 | 150 | 142 | 133 | 124 | 116 | 94  | 72  | 51  | 29  |      |     |     |     |     | Shut-off 467 ft  |
| 20           | 0            |   |     |     |     |     |     |     |     |     |     |     | 144 | 130 | 114  | 93  | 62  |     |     |                  |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     | 138 | 123 | 105  | 81  | 41  |     |     |                  |
|              | 30           |   |     |     |     |     |     |     |     |     |     |     | 145 | 131 | 115  | 95  | 65  |     |     |                  |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     | 139 | 124 | 107  | 83  | 45  |     |     |                  |
|              | 50           |   |     |     |     |     |     |     |     |     |     |     | 146 | 132 | 117  | 97  | 68  |     |     |                  |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     | 150 | 140 | 125  | 108 | 85  | 49  |     |                  |
|              | 70           |   |     |     |     |     |     |     |     |     |     |     | 188 | 174 | 152  | 130 | 109 | 87  |     |                  |
| Shut-off PSI | 252          | 243   | 234 | 226 | 217 | 208 | 200 | 191 | 182 | 174 | 152 | 130 | 109 | 87  | 65   | 44  | 22  |     |     | Shut-off 601 ft  |
| 25           | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     | 143  | 133 | 119 | 99  | 71  |                  |
|              | 20           |   |     |     |     |     |     |     |     |     |     |     |     |     | 144  | 134 | 120 | 101 | 74  |                  |
|              | 30           |   |     |     |     |     |     |     |     |     |     |     |     |     | 140  | 128 | 112 | 90  | 57  |                  |
|              | 40           |   |     |     |     |     |     |     |     |     |     |     |     |     | 145  | 135 | 121 | 103 | 76  |                  |
|              | 50           |   |     |     |     |     |     |     |     |     |     |     |     |     | 150  | 140 | 129 | 114 | 92  | 60               |
|              | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     | 146  | 135 | 123 | 104 | 78  | 42               |
|              | 70           |   |     |     |     |     |     |     |     |     |     |     |     |     | 141  | 130 | 115 | 94  | 63  |                  |
| Shut-off PSI |              |   | 292 | 283 | 275 | 266 | 257 | 249 | 240 | 231 | 210 | 188 | 166 | 145 | 123  | 101 | 80  | 58  | 37  | Shut-off 734 ft  |
| 30           | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 20           |   |     |     |     | 144 | 143 | 134 | 125 | 113 | 99  | 79  | 54  |     |      |     |     |     |     |                  |
|              | 30           |   |     |     |     | 149 | 140 | 131 | 121 | 108 | 92  | 70  | 43  |     |      |     |     |     |     |                  |
|              | 40           |   |     |     |     | 145 | 136 | 126 | 115 | 101 | 83  | 58  |     |     |      |     |     |     |     |                  |
|              | 50           |   |     |     | 149 | 141 | 132 | 122 | 109 | 93  | 72  | 45  |     |     |      |     |     |     |     |                  |
|              | 60           |   |     |     | 145 | 136 | 127 | 116 | 102 | 84  | 60  |     |     |     |      |     |     |     |     |                  |
|              | 70           |   |     | 150 | 141 | 132 | 122 | 110 | 95  | 74  | 47  |     |     |     |      |     |     |     |     |                  |
| Shut-off PSI | 270          | 248   | 226 | 205 | 183 | 161 | 140 | 118 | 96  | 75  | 53  | 31  |     |     |      |     |     |     |     | Shut-off 873 ft  |
| 40           | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                  |
|              | 20           |   |     |     |     |     |     |     | 150 | 145 | 139 | 132 | 126 | 118 | 1108 | 96  | 82  | 62  |     |                  |
|              | 30           |   |     |     |     |     |     |     | 148 | 142 | 136 | 129 | 122 | 114 | 103  | 90  | 73  | 52  |     |                  |
|              | 40           |   |     |     |     |     |     |     | 145 | 139 | 133 | 126 | 118 | 109 | 97   | 83  | 64  | 40  |     |                  |
|              | 50           |   |     |     |     |     |     |     | 148 | 142 | 136 | 130 | 123 | 114 | 104  | 91  | 75  | 53  |     |                  |
|              | 60           |   |     |     |     |     |     |     | 145 | 139 | 133 | 127 | 119 | 110 | 98   | 84  | 66  | 42  |     |                  |
|              | 70           |   |     |     |     |     |     | 149 | 143 | 137 | 130 | 123 | 115 | 105 | 92   | 76  | 55  |     |     |                  |
| Shut-off PSI | 409          | 387   | 365 | 344 | 322 | 300 | 279 | 257 | 235 | 214 | 192 | 170 |     |     |      |     |     |     |     | Shut-off 1194 ft |

Discharge 3" NPT

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# 6" HIGH CAPACITY PUMPS - 125 GPM

## PERFORMANCE



# E SERIES ENVIRONMENTAL PUMPS

## APPLICATIONS

- Filtered effluent service
- Aeration
- Ornamental fountains/waterfalls

## FEATURES

- Ideal for effluent pumping applications
- Stainless steel or thermoplastic discharge and motor bracket are tough and non-corrosive. Both materials are highly resistant to damage by minerals, metals, and other substances typically found in water
- Heavy-duty, 300 V, 10' SJ00W motor leads
- Ceramic bearing sleeve has time proven durability for years of reliable service
- Hex rubber bearing has extra large surface assuring shaft stability and multiple flow channels keeping particles away from bearing surfaces
- Proven hydraulic staging allows close tolerances and increased performance
- Carbon phenolic upthrust washer prevents excessive wear in severe applications
- Removable built-in check valve on 10-20 gpm pumps. No built-in check valves on high capacity pumps
- Powered by a Franklin Electric submersible motor



## E SERIES ENVIRONMENTAL PUMPS - ORDERING INFORMATION

### PLASTIC ORDERING INFORMATION

| 1/2 - 1.5 HP Single-Phase Units |     |      |      |          |                |           | 1/2 - 2 HP Pump Ends |     |      |      |          |             |             |
|---------------------------------|-----|------|------|----------|----------------|-----------|----------------------|-----|------|------|----------|-------------|-------------|
| GPM                             | HP  | Volt | Wire | Order    | Model          | Wt. (lbs) | GPM                  | HP  | Volt | Wire | Order    | Model       | Wt. (lbs)   |
| 10                              | 1/2 | 115  | 2    | 94741005 | 10FE05P4-2W115 | 25        | 10                   | 1/2 | N/A  | 2    | 94751005 | 10FE05P4-PE | 7           |
|                                 | 1/2 | 230  | 2    | 94741010 | 10FE05P4-2W230 | 25        |                      | 3/4 | N/A  | N/A  | 94751010 | 10FE07P4-PE | 8           |
|                                 | 3/4 | 230  | 2    | 94741015 | 10FE07P4-2W230 | 29        |                      | 1   | N/A  | N/A  | 94751015 | 10FE1P4-PE  | 9           |
|                                 | 1   | 230  | 2    | 94741020 | 10FE1P4-2W230  | 33        |                      | 1.5 | N/A  | N/A  | 94751020 | 10FE15P4-PE | 10          |
|                                 | 1.5 | 230  | 2    | 94741025 | 10FE15P4-2W230 | 41        |                      | 20  | 1/2  | N/A  | N/A      | 94752005    | 20FE05P4-PE |
| 20                              | 1/2 | 115  | 2    | 94742005 | 20FE05P4-2W115 | 24        | 3/4                  |     | N/A  | N/A  | 94752010 | 20FE07P4-PE | 6           |
|                                 | 1/2 | 230  | 2    | 94742010 | 20FE05P4-2W230 | 24        | 1                    |     | N/A  | N/A  | 94752015 | 20FE1P4-PE  | 7           |
|                                 | 3/4 | 230  | 2    | 94742015 | 20FE07P4-2W230 | 28        | 1.5                  |     | N/A  | N/A  | 94752020 | 20FE15P4-PE | 8           |
|                                 | 1   | 230  | 2    | 94742020 | 20FE1P4-2W230  | 31        | 2                    |     | N/A  | N/A  | 94752025 | 20FE2P4-PE  | 9           |
|                                 | 1.5 | 230  | 2    | 94742025 | 20FE15P4-2W230 | 39        |                      |     |      |      |          |             |             |

Notes: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

### STAINLESS STEEL ORDERING INFORMATION

| 1/2 - 1.5 HP Single-Phase Units |     |      |      |          |                |           |
|---------------------------------|-----|------|------|----------|----------------|-----------|
| GPM                             | HP  | Volt | Wire | Order    | Model          | Wt. (lbs) |
| 35                              | 1/2 | 115  | 2    | 94743505 | 35FE05S4-2W115 | 25        |
|                                 | 1/2 | 230  | 2    | 94743510 | 35FE05S4-2W230 | 25        |
|                                 | 3/4 | 230  | 2    | 94743515 | 35FE07S4-2W230 | 29        |
|                                 | 1   | 230  | 2    | 94743520 | 35FE1S4-2W230  | 33        |
|                                 | 1.5 | 230  | 2    | 94743525 | 35FE15S4-2W230 | 39        |
| 45                              | 1/2 | 115  | 2    | 94744505 | 45FE05S4-2W115 | 28        |
|                                 | 1/2 | 230  | 2    | 94744510 | 45FE05S4-2W230 | 28        |
|                                 | 3/4 | 230  | 2    | 94744515 | 45FE07S4-2W230 | 33        |
|                                 | 1   | 230  | 2    | 94744520 | 45FE1S4-2W230  | 36        |
|                                 | 1.5 | 230  | 2    | 94744525 | 45FE15S4-2W230 | 44        |
| 60                              | 1/2 | 115  | 2    | 94746005 | 60FE05S4-2W115 | 29        |
|                                 | 1/2 | 230  | 2    | 94746010 | 60FE05S4-2W230 | 29        |
|                                 | 3/4 | 230  | 2    | 94746015 | 60FE07S4-2W230 | 33        |
|                                 | 1   | 230  | 2    | 94746020 | 60FE1S4-2W230  | 37        |
|                                 | 1.5 | 230  | 2    | 94746025 | 60FE15S4-2W230 | 45        |
| 90                              | 1.5 | 230  | 2    | 94749025 | 90FE15S4-2W230 | 44        |

### PUMP END ONLY ORDERING INFORMATION

| 1/2 - 3 HP Pump Ends |     |          |             |           |  |
|----------------------|-----|----------|-------------|-----------|--|
| GPM                  | HP  | Order    | Model       | Wt. (lbs) |  |
| 35                   | 1/2 | 94753505 | 35FE05S4-PE | 7         |  |
|                      | 3/4 | 94753510 | 35FE07S4-PE | 8         |  |
|                      | 1   | 94753515 | 35FE1S4-PE  | 9         |  |
|                      | 1.5 | 94753520 | 35FE15S4-PE | 10        |  |
|                      | 2   | 94753525 | 35FE2S4-PE  | 11        |  |
|                      | 3   | 94753530 | 35FE3S4-PE  | 12        |  |
| 45                   | 1/2 | 94754505 | 45FE05S4-PE | 10        |  |
|                      | 3/4 | 94754510 | 45FE07S4-PE | 11        |  |
|                      | 1   | 94754515 | 45FE1S4-PE  | 12        |  |
|                      | 1.5 | 94754520 | 45FE15S4-PE | 15        |  |
|                      | 2   | 94754525 | 45FE2S4-PE  | 16        |  |
|                      | 3   | 94754530 | 45FE3S4-PE  | 19        |  |
| 60                   | 1/2 | 94756005 | 60FE05S4-PE | 11        |  |
|                      | 3/4 | 94756010 | 60FE07S4-PE | 12        |  |
|                      | 1   | 94756015 | 60FE1S4-PE  | 13        |  |
|                      | 1.5 | 94756020 | 60FE15S4-PE | 14        |  |
|                      | 2   | 94756025 | 60FE2S4-PE  | 15        |  |
|                      | 3   | 94756030 | 60FE3S4-PE  | 17        |  |
| 90                   | 1.5 | 94759020 | 90FE15S4-PE | 15        |  |
|                      | 2   | 94759025 | 90FE2S4-PE  | 15        |  |
|                      | 3   | 94759030 | 90FE3S4-PE  | 17        |  |

Notes: Discharge is 2" NPT with no built in check valve. Maximum diameter across cable guard is 3.90" on all models.

## E SERIES ENVIRONMENTAL PUMPS - 10 GPM THERMOPLASTIC

### CAPACITIES IN U.S. GALLONS PER MINUTE

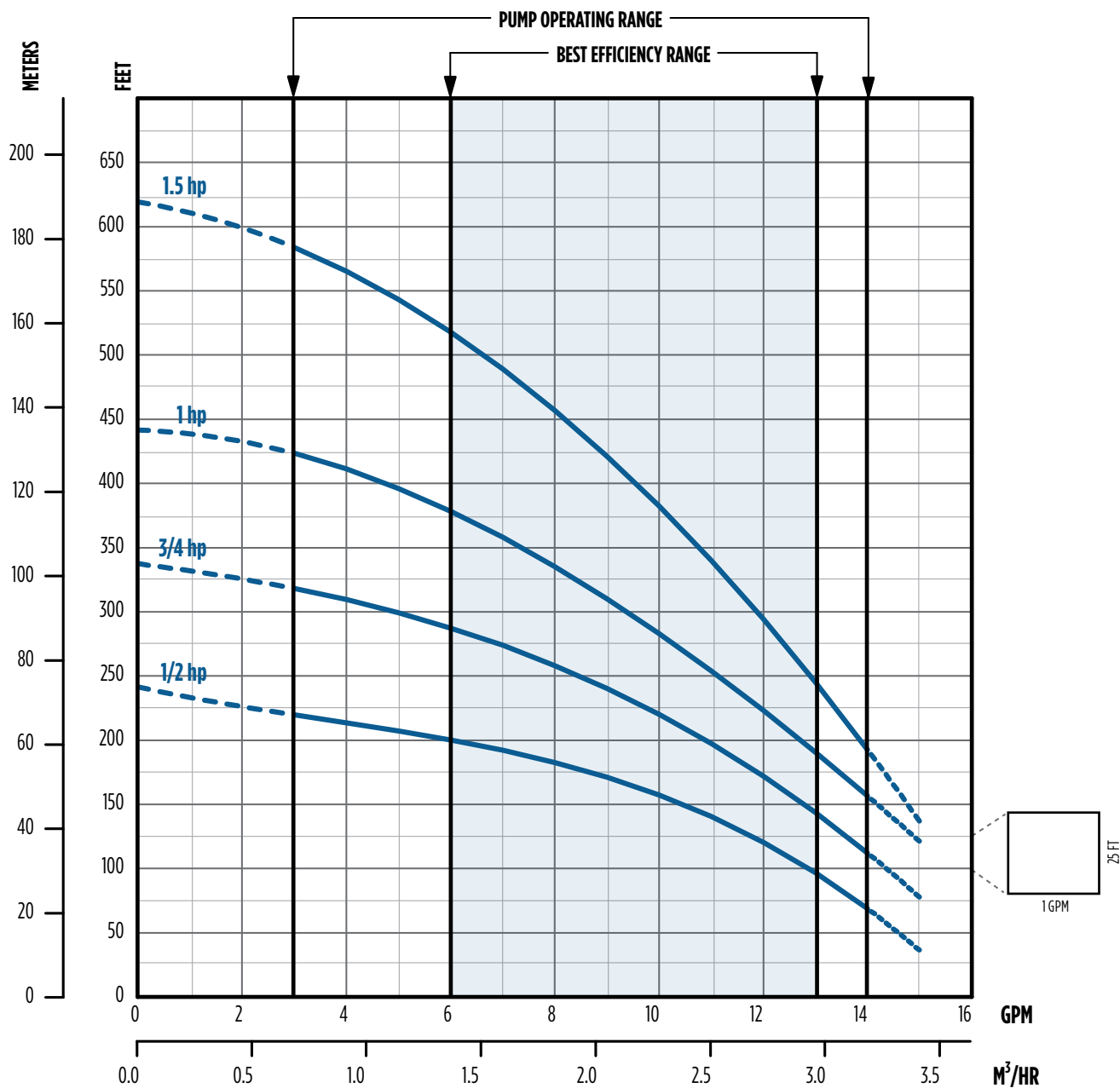
| HP  | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |  |
| 1/2 | 0            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 20           | 14  | 13  | 13  | 12  | 11  | 9   | 8   | 5   |     |     |     |     |     |     |     |     |     |     |  |
|     | 30           | 13  | 12  | 12  | 11  | 9   | 7   | 5   |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 40           | 12  | 11  | 10  | 9   | 7   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 50           | 11  | 10  | 9   | 6   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 60           | 10  | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 70           | 8   | 6   | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 80           | 5   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | Shut-off PSI | 96  | 87  | 79  | 70  | 61  | 53  | 44  | 35  | 27  | 18  |     |     |     |     |     |     |     |     |  |
| 3/4 | 0            |   |     |     |     | 14  | 14  | 13  | 12  | 12  | 11  | 8   | 5   |     |     |     |     |     |     |  |
|     | 20           |   |     | 14  | 14  | 13  | 12  | 11  | 10  | 10  | 9   | 5   |     |     |     |     |     |     |     |  |
|     | 30           |   | 14  | 13  | 13  | 12  | 11  | 10  | 10  | 9   | 7   | 3   |     |     |     |     |     |     |     |  |
|     | 40           | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   |     |     |     |     |     |     |     |     |  |
|     | 50           | 13  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |  |
|     | 60           | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 5   | 3   |     |     |     |     |     |     |     |     |     |  |
|     | 70           | 12  | 11  | 10  | 9   | 8   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |     |  |
|     | 80           | 11  | 10  | 9   | 8   | 6   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |  |
|     | Shut-off PSI | 137   | 129 | 120 | 111 | 103 | 94  | 85  | 77  | 68  | 59  | 38  | 16  |     |     |     |     |     |     |  |
| 1   | 0            |   |     |     |     |     | 14  | 14  | 13  | 13  | 11  | 9   | 7   | 5   |     |     |     |     |     |  |
|     | 20           |   |     |     |     | 14  | 14  | 13  | 13  | 12  | 11  | 9   | 8   | 5   |     |     |     |     |     |  |
|     | 30           |   |     |     | 14  | 14  | 13  | 13  | 12  | 11  | 10  | 9   | 7   | 3   |     |     |     |     |     |  |
|     | 40           |   |     | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 10  | 8   | 5   |     |     |     |     |     |     |  |
|     | 50           | 14  | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 9   | 9   | 7   | 4   |     |     |     |     |     |     |  |
|     | 60           | 14  | 13  | 13  | 12  | 12  | 11  | 10  | 9   | 9   | 8   | 6   |     |     |     |     |     |     |     |  |
|     | 70           | 13  | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 8   | 7   | 4   |     |     |     |     |     |     |     |  |
|     | 80           | 13  | 12  | 11  | 11  | 10  | 9   | 8   | 8   | 7   | 6   |     |     |     |     |     |     |     |     |  |
|     | Shut-off PSI | 182   | 174 | 165 | 156 | 148 | 139 | 130 | 122 | 113 | 105 | 83  | 61  | 40  | 18  |     |     |     |     |  |
| 1.5 | 0            |   |     |     |     |     | 14  | 14  | 14  | 14  | 13  | 12  | 11  | 9   | 8   | 7   | 5   |     |     |  |
|     | 20           |   |     |     |     | 14  | 14  | 14  | 13  | 13  | 12  | 11  | 10  | 8   | 7   | 5   |     |     |     |  |
|     | 30           |   |     |     |     | 14  | 14  | 14  | 13  | 13  | 13  | 12  | 10  | 9   | 8   | 6   | 4   |     |     |  |
|     | 40           |   |     |     | 14  | 14  | 14  | 13  | 13  | 13  | 12  | 11  | 10  | 8   | 7   | 5   |     |     |     |  |
|     | 50           |   |     | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 12  | 10  | 9   | 8   | 6   | 4   |     |     |     |  |
|     | 60           |   | 14  | 14  | 14  | 13  | 13  | 12  | 12  | 12  | 11  | 10  | 8   | 7   | 5   | 3   |     |     |     |  |
|     | 70           | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 8   | 6   | 4   |     |     |     |     |  |
|     | 80           | 14  | 13  | 13  | 13  | 12  | 12  | 11  | 11  | 10  | 10  | 9   | 7   | 5   | 3   |     |     |     |     |  |
|     | Shut-off PSI | 259   | 251 | 242 | 233 | 225 | 216 | 207 | 199 | 190 | 181 | 160 | 138 | 117 | 95  | 73  | 52  | 30  | 8   |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



# E SERIES ENVIRONMENTAL PUMPS - 10 GPM THERMOPLASTIC

## PERFORMANCE



## E SERIES ENVIRONMENTAL PUMPS - 20 GPM THERMOPLASTIC

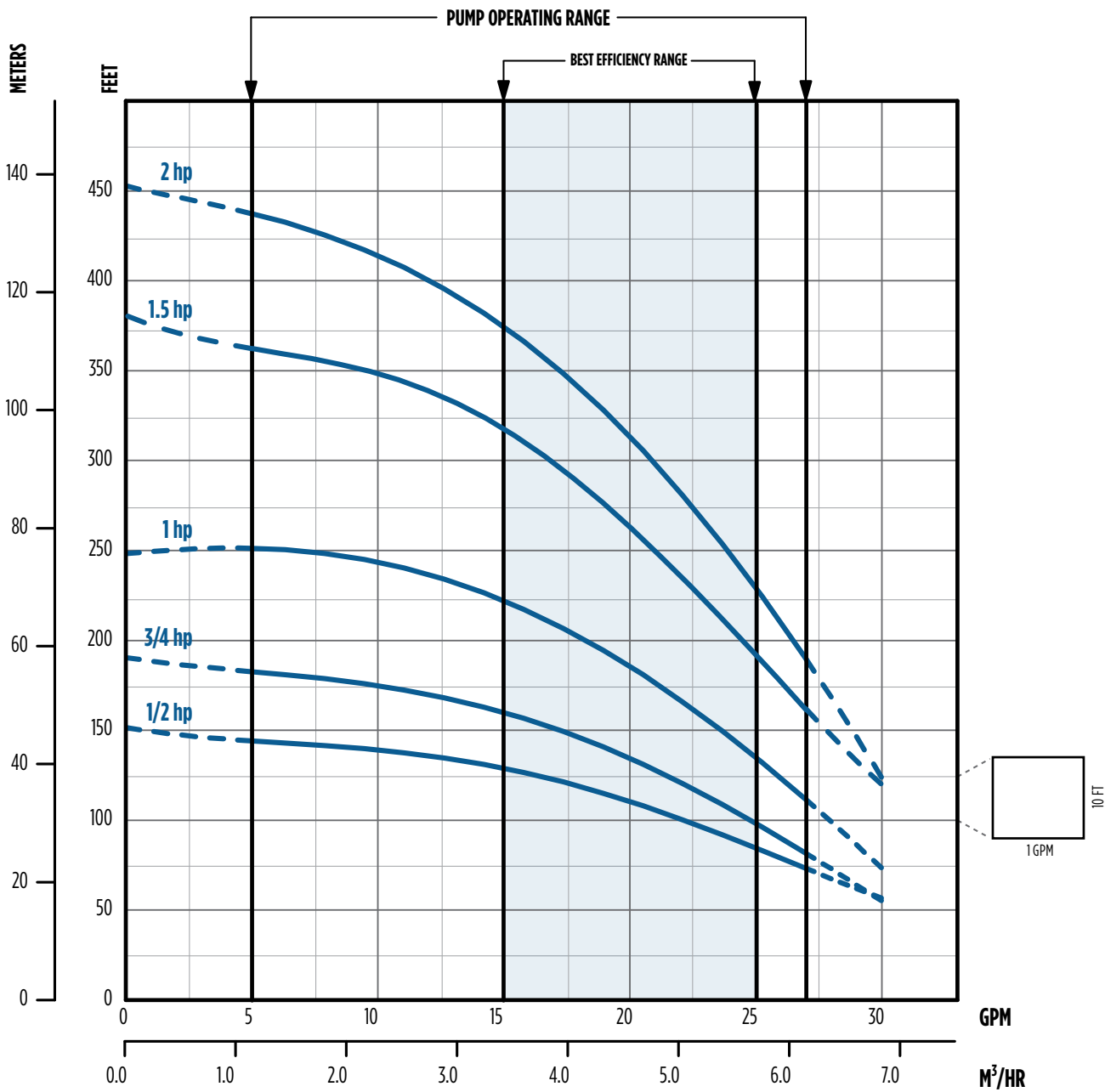
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP  | PSI          | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |              | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
| 1/2 | 0            |   |     |     |     | 22  | 18  | 9   |     |     |     |     |     |     |     |     |     |     |
|     | 20           |   | 24  | 21  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 30           | 24  | 21  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 40           | 20  | 13  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 50           | 12  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 60           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 70           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | Shut-off PSI |   | 57  | 48  | 40  | 31  | 22  | 14  | 5   |     |     |     |     |     |     |     |     |     |
| 3/4 | 0            |   |     |     | 27  | 25  | 22  | 19  | 15  | 7   |     |     |     |     |     |     |     |     |
|     | 20           |   | 26  | 24  | 21  | 18  | 13  |     |     |     |     |     |     |     |     |     |     |     |
|     | 30           | 26  | 24  | 21  | 18  | 12  |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 40           | 23  | 20  | 17  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 50           | 20  | 16  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 60           | 15  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 70           | 6   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 80           |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | Shut-off PSI |   | 74  | 65  | 57  | 48  | 39  | 31  | 22  | 13  | 5   |     |     |     |     |     |     |     |
| 1   | 0            |   |     |     |     |     | 26  | 25  | 23  | 20  | 18  | 6   |     |     |     |     |     |     |
|     | 20           |   |     | 27  | 26  | 24  | 22  | 20  | 18  | 15  | 8   |     |     |     |     |     |     |     |
|     | 30           |   | 27  | 26  | 24  | 22  | 19  | 17  | 14  | 7   |     |     |     |     |     |     |     |     |
|     | 40           | 27  | 25  | 23  | 21  | 19  | 17  | 13  |     |     |     |     |     |     |     |     |     |     |
|     | 50           | 25  | 23  | 21  | 19  | 16  | 12  |     |     |     |     |     |     |     |     |     |     |     |
|     | 60           | 23  | 21  | 18  | 16  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 70           | 20  | 18  | 15  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 80           | 18  | 15  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | Shut-off PSI |   | 100 | 91  | 83  | 74  | 65  | 57  | 48  | 40  | 31  | 22  | 1   |     |     |     |     |     |
| 1.5 | 0            |   |     |     |     |     |     | 27  | 26  | 24  | 21  | 17  | 9   |     |     |     |     |     |
|     | 20           |   |     |     |     |     | 27  | 25  | 24  | 23  | 21  | 17  | 10  |     |     |     |     |     |
|     | 30           |   |     |     |     | 26  | 25  | 24  | 22  | 21  | 20  | 15  |     |     |     |     |     |     |
|     | 40           |   |     |     | 26  | 25  | 23  | 22  | 21  | 19  | 18  | 11  |     |     |     |     |     |     |
|     | 50           |   | 27  | 26  | 25  | 23  | 22  | 21  | 19  | 17  | 15  |     |     |     |     |     |     |     |
|     | 60           | 27  | 26  | 24  | 23  | 22  | 20  | 19  | 17  | 15  | 11  |     |     |     |     |     |     |     |
|     | 70           | 26  | 24  | 23  | 21  | 20  | 19  | 17  | 14  | 11  | 5   |     |     |     |     |     |     |     |
|     | 80           | 24  | 23  | 21  | 20  | 18  | 16  | 14  | 10  |     |     |     |     |     |     |     |     |     |
|     | Shut-off PSI |   | 156 | 147 | 138 | 130 | 121 | 112 | 104 | 95  | 86  | 78  | 56  | 34  | 13  |     |     |     |
| 2   | 0            |   |     |     |     |     |     |     | 27  | 27  | 24  | 21  | 17  | 12  |     |     |     |     |
|     | 20           |   |     |     |     |     |     | 27  | 26  | 25  | 24  | 21  | 18  | 13  |     |     |     |     |
|     | 30           |   |     |     |     |     | 27  | 26  | 25  | 24  | 23  | 19  | 16  | 9   |     |     |     |     |
|     | 40           |   |     |     |     | 27  | 26  | 25  | 24  | 23  | 21  | 18  | 13  |     |     |     |     |     |
|     | 50           |   |     |     | 27  | 26  | 25  | 24  | 22  | 21  | 20  | 16  | 10  |     |     |     |     |     |
|     | 60           |   | 27  | 27  | 26  | 25  | 23  | 22  | 21  | 19  | 18  | 14  | 5   |     |     |     |     |     |
|     | 70           | 27  | 27  | 26  | 24  | 23  | 22  | 21  | 19  | 18  | 16  | 10  |     |     |     |     |     |     |
|     | 80           | 26  | 25  | 24  | 23  | 22  | 20  | 19  | 18  | 16  | 14  | 6   |     |     |     |     |     |     |
|     | Shut-off PSI |   | 187 | 178 | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 109 | 88  | 66  | 44  | 23  |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# E SERIES ENVIRONMENTAL PUMPS - 20 GPM THERMOPLASTIC

## PERFORMANCE



## E SERIES ENVIRONMENTAL PUMPS - 35 GPM STAINLESS STEEL

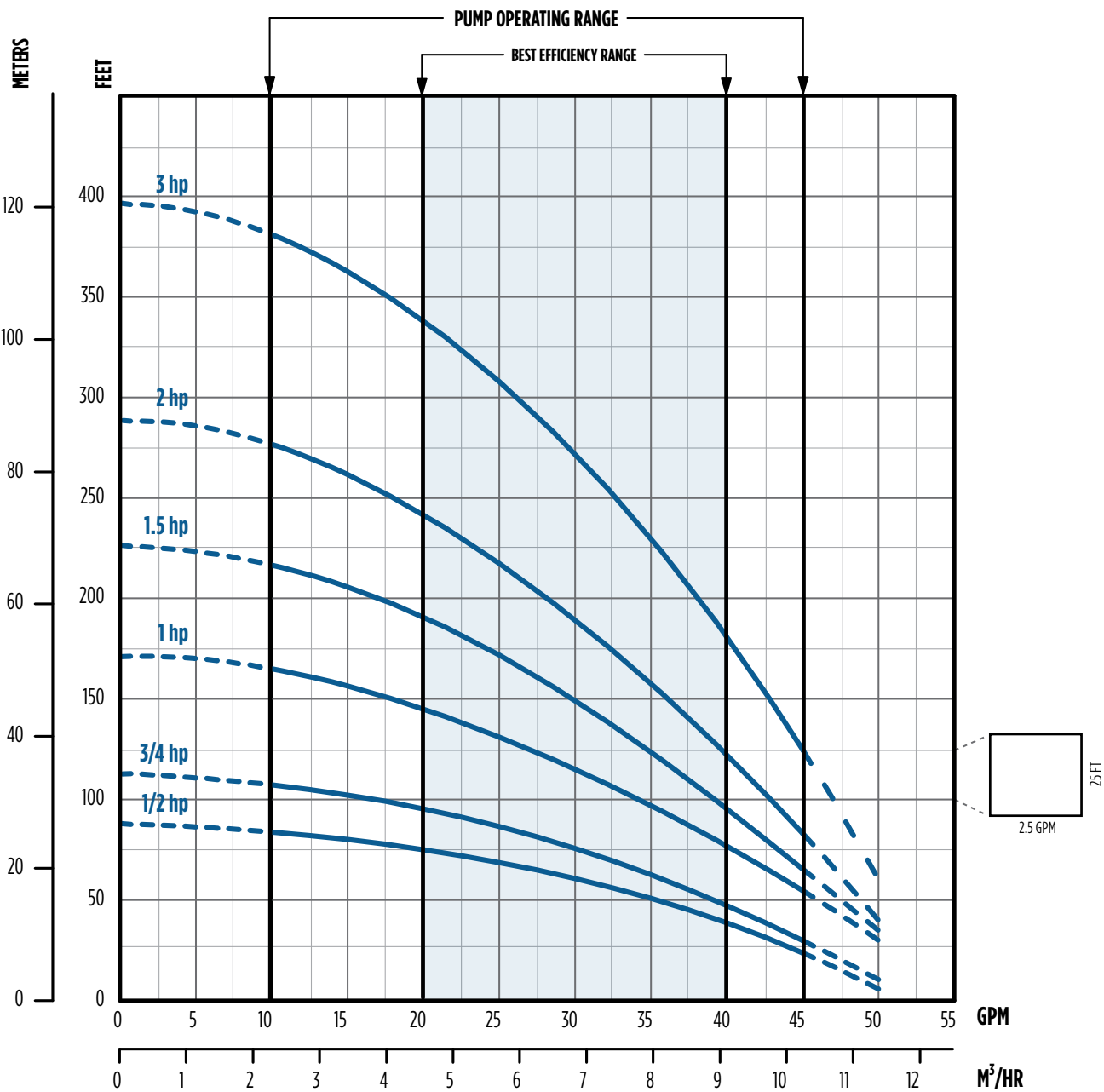
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |  |
| 1/2          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  | 38  | 29  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  | 27  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 29  | 21  | 12  | 3   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 3/4          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  | 42  | 35  | 27  | 14  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  | 33  | 25  | 11  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  | 24  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 40  | 32  | 23  | 14  | 6   |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |     |     | 44  | 40  | 34  | 28  | 22  | 13  |     |     |     |     |     |     |     |     |  |
|              | 20  | 43  | 38  | 32  | 26  | 20  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  | 37  | 31  | 26  | 19  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  | 30  | 25  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  | 24  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 60           | 14  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 65  | 57  | 48  | 39  | 31  | 22  | 13  | 5   |     |     |     |     |     |     |     |     |     |  |
| 1.5          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |     | 45  | 42  | 39  | 35  | 31  | 27  | 23  | 18  |     |     |     |     |     |     |     |  |
|              | 20  | 45  | 42  | 38  | 34  | 30  | 26  | 22  | 15  |     |     |     |     |     |     |     |     |     |  |
|              | 30  | 41  | 38  | 34  | 30  | 26  | 21  | 13  |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  | 37  | 33  | 29  | 25  | 20  | 12  |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  | 32  | 28  | 24  | 19  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 60  | 28  | 24  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 70  | 23  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 80  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 89  | 81  | 72  | 63  | 55  | 46  | 37  | 29  | 20  | 11  |     |     |     |     |     |     |     |  |
| 2            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |     | 45  | 43  | 40  | 37  | 34  | 31  | 27  | 24  | 11  |     |     |     |     |     |     |  |
|              | 20  |   | 45  | 42  | 40  | 37  | 33  | 30  | 27  | 24  | 20  |     |     |     |     |     |     |     |  |
|              | 30  | 44  | 42  | 39  | 36  | 33  | 30  | 26  | 23  | 19  | 12  |     |     |     |     |     |     |     |  |
|              | 40  | 42  | 39  | 36  | 32  | 29  | 26  | 22  | 18  | 11  |     |     |     |     |     |     |     |     |  |
|              | 50  | 38  | 35  | 32  | 29  | 25  | 22  | 17  | 10  |     |     |     |     |     |     |     |     |     |  |
|              | 60  | 35  | 31  | 28  | 25  | 21  | 16  |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 70  | 31  | 28  | 24  | 21  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 80  | 27  | 24  | 20  | 14  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 116   | 107 | 99  | 90  | 81  | 73  | 64  | 55  | 47  | 38  | 16  |     |     |     |     |     |     |  |
| 3            | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |     |     |     | 45  | 44  | 42  | 40  | 38  | 36  | 29  | 23  | 18  |     |     |     |     |  |
|              | 20  |   |     |     | 45  | 44  | 42  | 40  | 38  | 35  | 33  | 27  | 19  |     |     |     |     |     |  |
|              | 30  |   |     | 45  | 43  | 42  | 39  | 37  | 35  | 32  | 30  | 24  | 13  |     |     |     |     |     |  |
|              | 40  |   | 45  | 43  | 41  | 39  | 37  | 34  | 32  | 30  | 27  | 20  |     |     |     |     |     |     |  |
|              | 50  | 44  | 43  | 41  | 39  | 36  | 34  | 32  | 29  | 27  | 24  | 14  |     |     |     |     |     |     |  |
|              | 60  | 43  | 41  | 38  | 36  | 34  | 31  | 29  | 26  | 24  | 21  |     |     |     |     |     |     |     |  |
|              | 70  | 40  | 38  | 36  | 33  | 31  | 28  | 26  | 23  | 20  | 15  |     |     |     |     |     |     |     |  |
|              | 80  | 38  | 35  | 33  | 30  | 28  | 26  | 23  | 19  | 15  |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 163   | 154 | 145 | 137 | 128 | 119 | 111 | 102 | 94  | 85  | 63  | 42  | 20  |     |     |     |     |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# E SERIES ENVIRONMENTAL PUMPS - 35 GPM STAINLESS STEEL

## PERFORMANCE



# E SERIES ENVIRONMENTAL PUMPS - 45 GPM STAINLESS STEEL

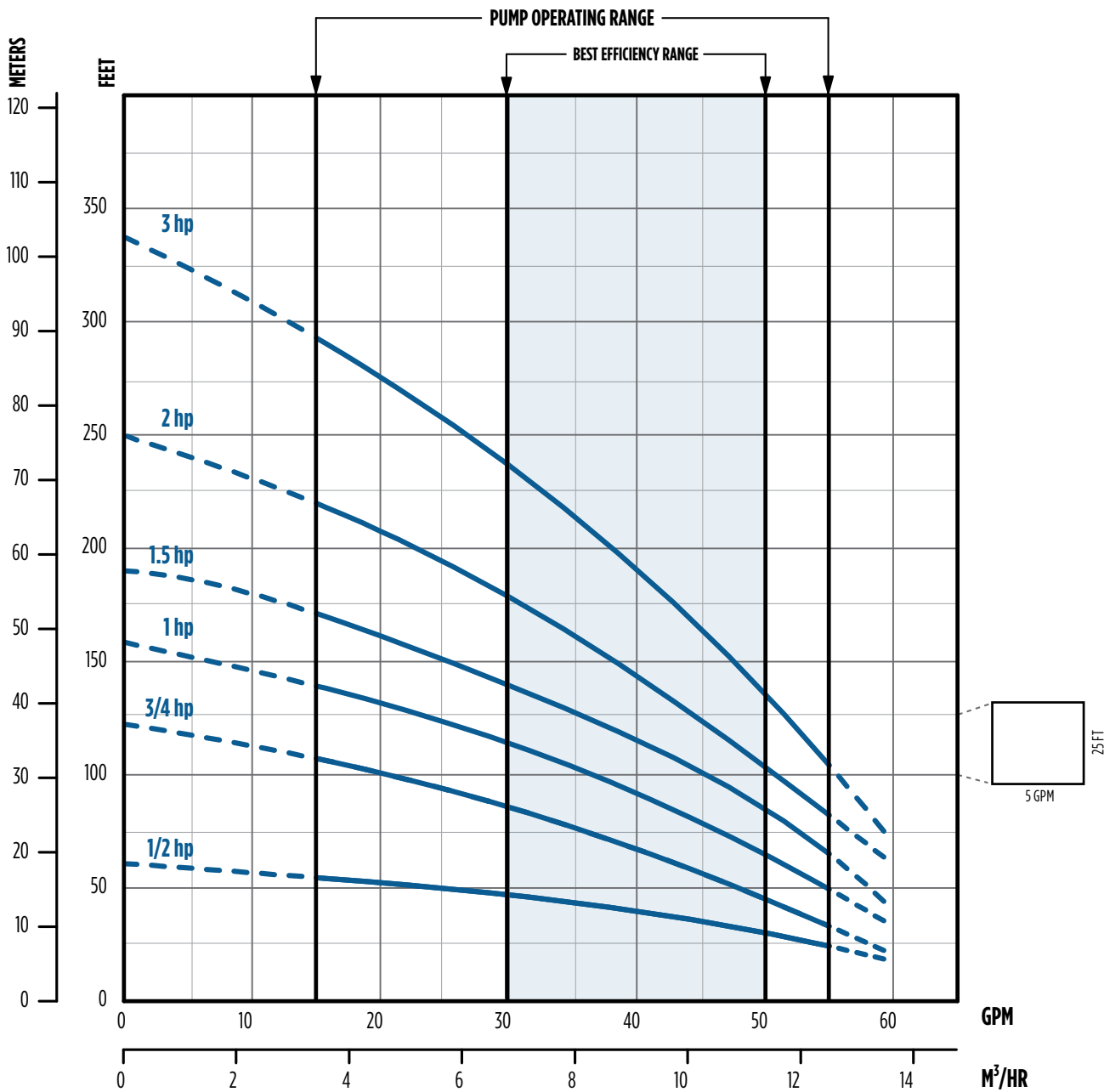
## CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              |     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
| 1/2          | 0   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 10  | 36  | 40  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 18  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3/4          | 0   |   |     | 52  | 43  | 33  | 21  |     |     |     |     |     |     |     |     |     |     |     |
|              | 10  | 51  | 42  | 32  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  | 40  | 30  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  | 28  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 44  | 36  | 27  | 18  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |
| 1            | 0   |   |     | 52  | 45  | 37  | 27  |     |     |     |     |     |     |     |     |     |     |     |
|              | 10  |   | 51  | 43  | 35  | 25  |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 20  | 49  | 42  | 34  | 23  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  | 41  | 32  | 21  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  | 31  | 20  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 60  | 51  | 43  | 34  | 25  | 17  |     |     |     |     |     |     |     |     |     |     |     |
| 1.5          | 0   |   |     |     | 52  | 46  | 38  | 30  | 21  |     |     |     |     |     |     |     |     |     |
|              | 10  |   | 55  | 51  | 44  | 37  | 28  | 19  |     |     |     |     |     |     |     |     |     |     |
|              | 20  | 55  | 50  | 43  | 35  | 27  | 18  |     |     |     |     |     |     |     |     |     |     |     |
|              | 30  | 49  | 42  | 34  | 26  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 40  | 41  | 33  | 24  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  | 32  | 23  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 74  | 65  | 56  | 48  | 39  | 30  | 22  | 13  |     |     |     |     |     |     |     |     |     |
| 2            | 0   |   |     |     | 55  | 51  | 46  | 41  | 36  | 30  | 23  |     |     |     |     |     |     |     |
|              | 10  |   |     | 55  | 50  | 45  | 40  | 35  | 29  | 22  |     |     |     |     |     |     |     |     |
|              | 20  |   | 54  | 49  | 44  | 39  | 34  | 28  | 21  |     |     |     |     |     |     |     |     |     |
|              | 30  | 53  | 49  | 44  | 38  | 33  | 27  | 19  |     |     |     |     |     |     |     |     |     |     |
|              | 40  | 48  | 43  | 38  | 32  | 26  | 18  |     |     |     |     |     |     |     |     |     |     |     |
|              | 50  | 42  | 37  | 31  | 24  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 99  | 91  | 82  | 73  | 65  | 56  | 48  | 39  | 30  | 22  |     |     |     |     |     |     |     |
| 3            | 0   |   |     |     |     | 56  | 53  | 49  | 46  | 42  | 38  | 27  |     |     |     |     |     |     |
|              | 10  |   |     |     | 55  | 52  | 49  | 45  | 41  | 37  | 33  | 21  |     |     |     |     |     |     |
|              | 20  |   |     | 55  | 52  | 48  | 45  | 41  | 37  | 32  | 28  |     |     |     |     |     |     |     |
|              | 30  |   | 54  | 51  | 48  | 44  | 40  | 36  | 32  | 27  | 22  |     |     |     |     |     |     |     |
|              | 40  | 54  | 51  | 47  | 44  | 40  | 35  | 31  | 26  | 21  | 15  |     |     |     |     |     |     |     |
|              | 50  | 50  | 47  | 43  | 39  | 35  | 30  | 25  | 20  |     |     |     |     |     |     |     |     |     |
|              | 60  | 46  | 42  | 38  | 34  | 30  | 25  | 19  |     |     |     |     |     |     |     |     |     |     |
|              | 70  | 42  | 38  | 33  | 29  | 24  | 18  |     |     |     |     |     |     |     |     |     |     |     |
|              | 80  | 37  | 33  | 28  | 23  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 90  | 32  | 27  | 22  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|              | 100 | 27  | 21  | 16  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Shut-off PSI |     | 137   | 129 | 120 | 111 | 103 | 94  | 85  | 77  | 68  | 59  | 38  |     |     |     |     |     |     |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

# E SERIES ENVIRONMENTAL PUMPS - 45 GPM STAINLESS STEEL

## PERFORMANCE



## E SERIES ENVIRONMENTAL PUMPS - 60 GPM STAINLESS STEEL

### CAPACITIES IN U.S. GALLONS PER MINUTE

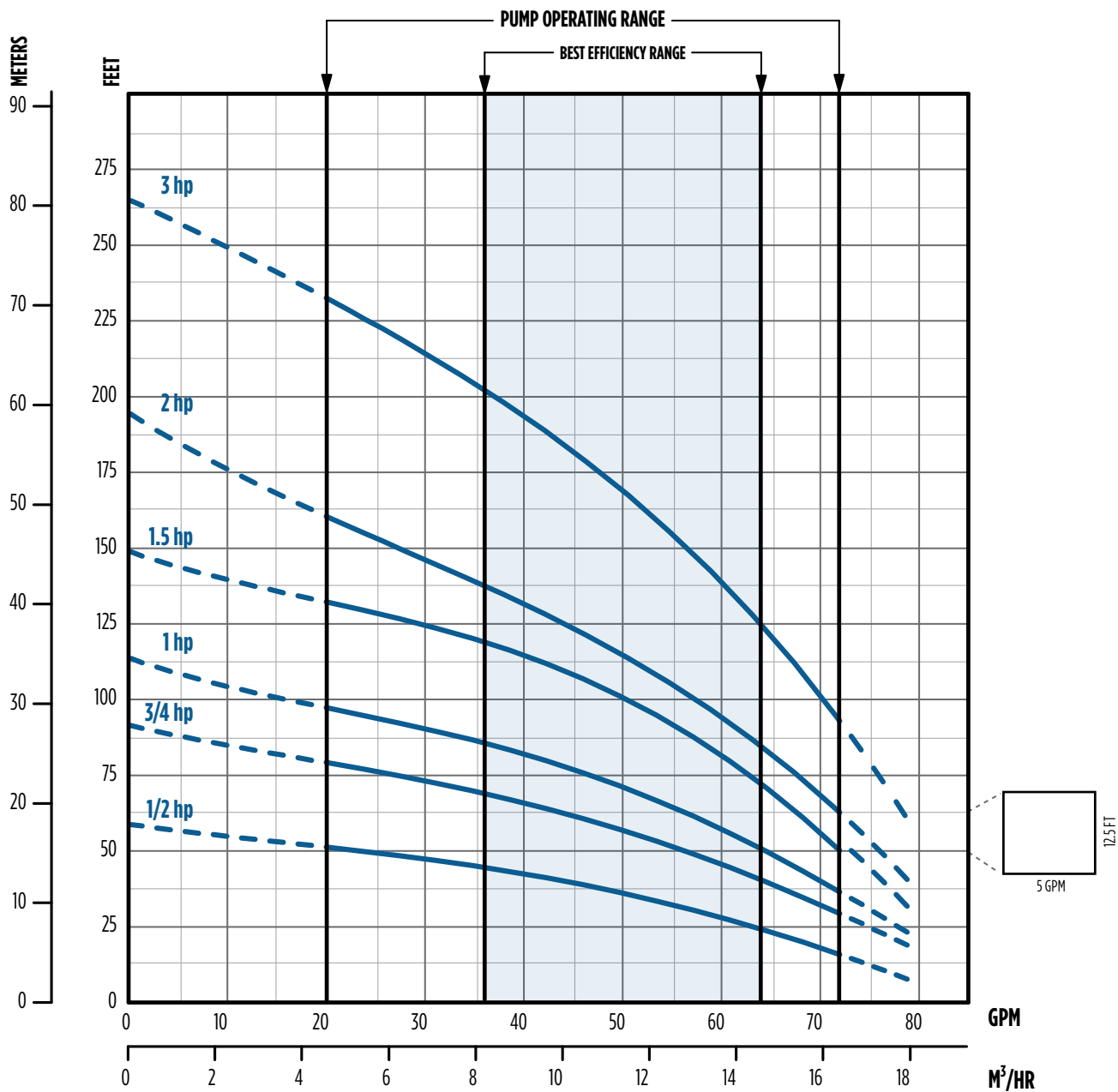
| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|--------------|-----|---|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|              |     | 20  | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |  |
| 1/2          | 0   | 68  | 44 |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  | 39  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 17  | 8  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 3/4          | 0   |   | 64 | 47 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   | 62 | 43 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  |   | 40 |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 31  | 22 | 14 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1            | 0   |   |    | 70 | 58 | 42  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |    | 68 | 56 | 39  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  |   |    | 54 | 35 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |    | 31 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 41  | 32 | 23 | 15 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1.5          | 0   |   |    |    | 69 | 61  | 51  | 34  |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   |    |    | 67 | 59  | 49  | 31  |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  |   |    |    | 66 | 58  | 47  | 27  |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |    |    | 57 | 44  | 24  |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |    |    | 42 | 20  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 56  | 47 | 39 | 30 | 21  | 13  |     |     |     |     |     |     |     |     |     |     |     |  |
| 2            | 0   |   |    |    |    | 66  | 57  | 47  | 34  | 21  |     |     |     |     |     |     |     |     |  |
|              | 10  |   |    |    |    | 72  | 65  | 56  | 45  | 32  |     |     |     |     |     |     |     |     |  |
|              | 20  |   |    |    |    | 71  | 64  | 54  | 43  | 30  |     |     |     |     |     |     |     |     |  |
|              | 30  |   |    |    |    | 62  | 53  | 41  | 28  |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |    |    |    | 51  | 39  | 26  |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |    |    |    | 37  | 24  |     |     |     |     |     |     |     |     |     |     |     |  |
| 60           |     |   |    |    | 22 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 76  | 67 | 58 | 50 | 41  | 32  | 24  | 15  |     |     |     |     |     |     |     |     |     |  |
| 3            | 0   |   |    |    |    |     | 70  | 65  | 60  | 53  | 46  | 37  |     |     |     |     |     |     |  |
|              | 10  |   |    |    |    |     | 70  | 64  | 59  | 52  | 45  | 36  | 25  |     |     |     |     |     |  |
|              | 20  |   |    |    |    |     | 69  | 64  | 58  | 51  | 43  | 34  | 24  |     |     |     |     |     |  |
|              | 30  |   |    |    |    |     | 68  | 63  | 57  | 50  | 42  | 33  | 22  |     |     |     |     |     |  |
|              | 40  |   |    |    |    |     | 67  | 62  | 56  | 49  | 41  | 31  | 20  |     |     |     |     |     |  |
|              | 50  |   |    |    |    |     | 61  | 55  | 48  | 39  | 29  |     |     |     |     |     |     |     |  |
| 60           |     |   |    |    |    | 54  | 46  | 38  | 28  |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 106   | 98 | 89 | 80 | 72  | 63  | 54  | 46  | 37  | 28  |     |     |     |     |     |     |     |  |

Notes: 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.



## E SERIES ENVIRONMENTAL PUMPS - 60 GPM STAINLESS STEEL

### PERFORMANCE



## E SERIES ENVIRONMENTAL PUMPS - 90 GPM STAINLESS STEEL

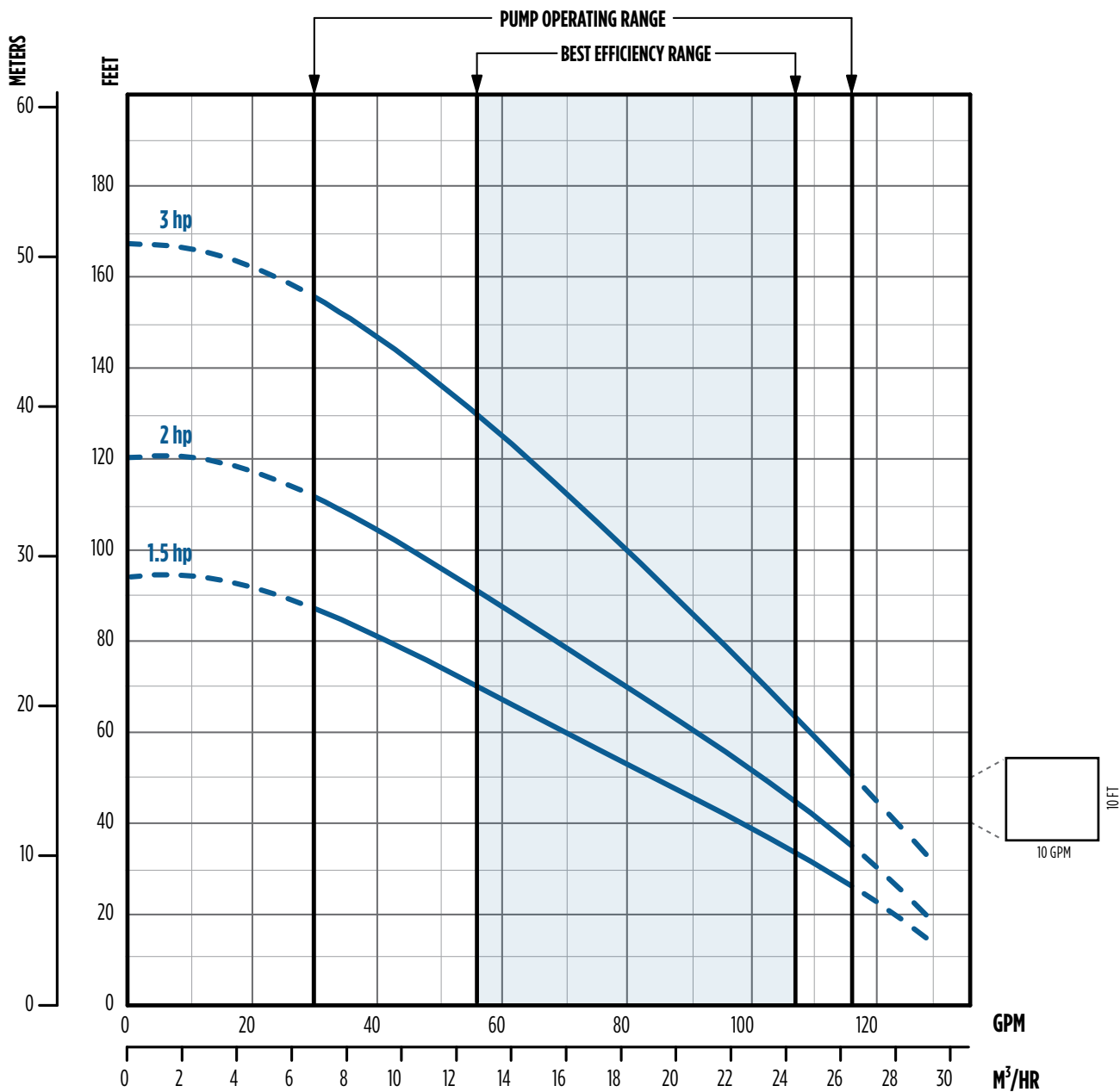
### CAPACITIES IN U.S. GALLONS PER MINUTE

| HP           | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|--------------|-----|---|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|              |     | 20  | 40  | 60  | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |  |
| 1.5          | 0   |   | 99  | 69  | 43 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  | 94  | 65  | 38  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  | 61  | 32  |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  |   |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 52  | 24  | 15  | 6  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2            | 0   |   | 112 | 91  | 68 | 47  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  | 109   | 88  | 65  | 43 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  | 84  | 61  | 39  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  | 58  | 34  |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  |   |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  |   |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 44  | 35  | 26  | 18 | 9   |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 3            | 0   |   |     | 110 | 96 | 79  | 64  | 48  |     |     |     |     |     |     |     |     |     |     |  |
|              | 10  |   | 108 | 93  | 77 | 61  | 45  |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 20  | 106   | 91  | 74  | 59 | 42  |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 30  | 88  | 72  | 57  | 38 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 40  | 69  | 54  | 34  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|              | 50  | 52  | 30  |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Shut-off PSI |     | 64  | 55  | 46  | 38 | 29  | 20  | 12  |     |     |     |     |     |     |     |     |     |     |  |

**Notes:** 1. Performance shown does not include friction loss in the drop pipe. 2. All performance data is based on rated motor nameplate voltage.

## E SERIES ENVIRONMENTAL PUMPS - 90 GPM STAINLESS STEEL

### PERFORMANCE



## C1 SERIES CISTERN PUMPS

Designed for use in gray water / filtered effluent service applications, the C1 Series cistern pump provides high performance and long life in less than ideal water conditions. The C1 Series pump is able to pass solids up to 1/8" without having a negative effect on the internal hydraulic components.

The pump's unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistern or tank, C1 Series pumps are suitable for use in agricultural, residential, and commercial installations.

### APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other fountain or pond applications
- Agriculture and livestock water pumping

### FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a maximum shut-off pressure of 100 psi
- Heavy-duty 600 V 10 foot SJ00W jacketed lead



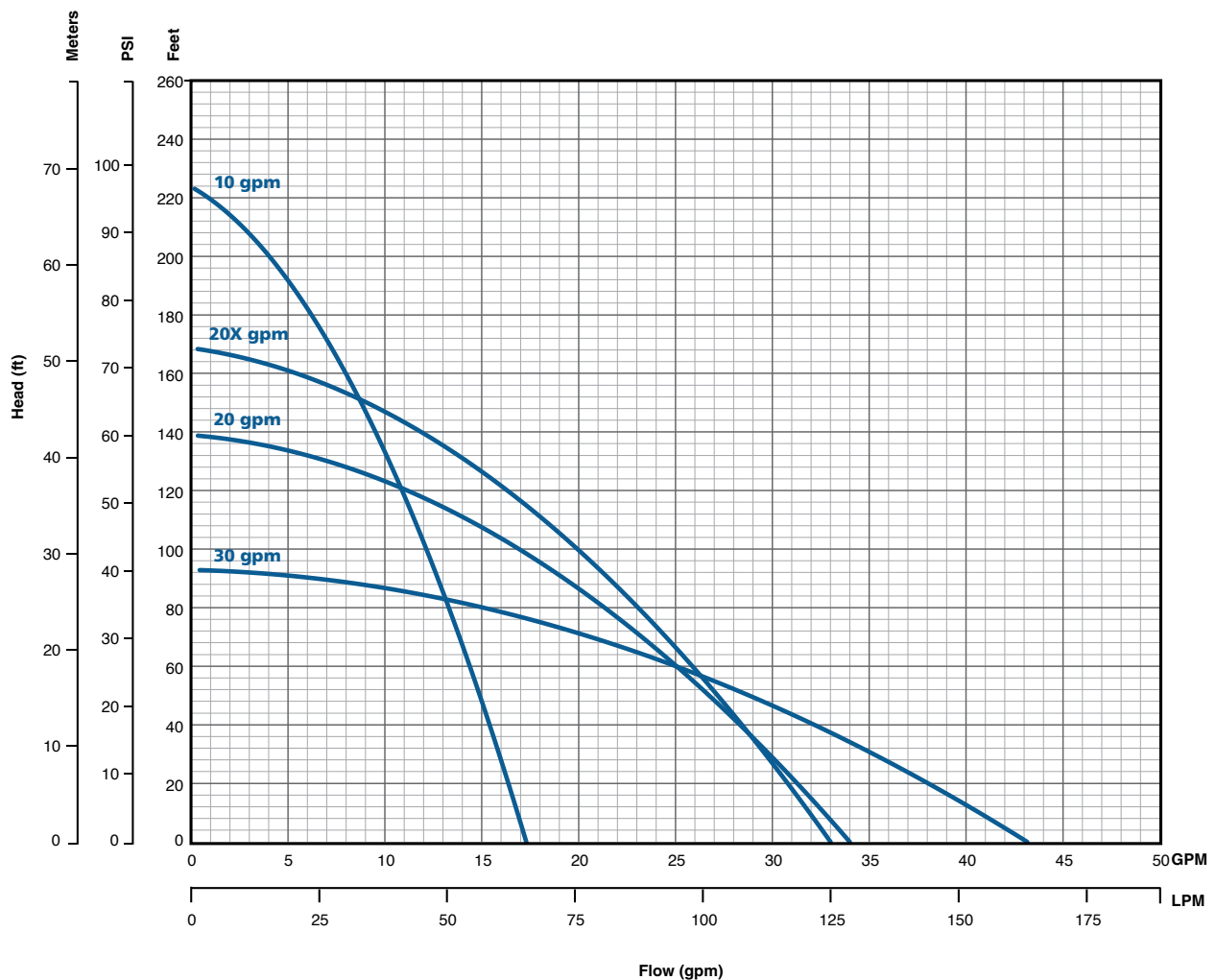
## C1 SERIES CISTERN PUMPS - ORDERING INFORMATION

### ORDERING INFORMATION

| FPS C1 Series Pumps |     |       |       |                  |          |              |               |
|---------------------|-----|-------|-------|------------------|----------|--------------|---------------|
| GPM                 | HP  | Volts | Stage | Model            | Order    | Length (in.) | Weight (lbs.) |
| 10                  | 1/2 | 115   | 7     | 10C1-05P4-2W115  | 90301005 | 26           | 17            |
|                     |     | 230   | 7     | 10C1-05P4-2W230  | 90301010 | 26           | 17            |
| 20                  |     | 115   | 5     | 20C1-05P4-2W115  | 90302005 | 25           | 16            |
|                     |     | 230   | 5     | 20C1-05P4-2W230  | 90302010 | 25           | 16            |
| 20X                 |     | 115   | 6     | 20XC1-05P4-2W115 | 90302015 | 26           | 17            |
|                     |     | 230   | 6     | 20XC1-05P4-2W230 | 90302020 | 26           | 17            |
| 30                  |     | 115   | 4     | 30C1-05P4-2W115  | 90303005 | 25           | 16            |
|                     |     | 230   | 4     | 30C1-05P4-2W230  | 90303010 | 25           | 16            |

Notes: All units have 10 foot long SJ00W leads.

### PERFORMANCE



## SUBMERSIBLE PUMP ACCESSORIES

### Check Valves - Silicone Bronze

| Description       | Inlet       | Outlet      | Case Qty. | Order    | Weight (lbs.) |
|-------------------|-------------|-------------|-----------|----------|---------------|
| Flomatic™ 4221LEB | 1-1/4" MNPT | 1" FNPT     | 36        | 91980631 | 1.25          |
| Flomatic™ 4242LEB | 1-1/4" MNPT | 1-1/4" FNPT | 36        | 91980649 | 1.75          |

### Check Valves - Stainless Steel

| Description         | Inlet       | Outlet      | Case Qty. | Order    | Weight (lbs.) |
|---------------------|-------------|-------------|-----------|----------|---------------|
| Flomatic™ #4221LSS2 | 1-1/4" MNPT | 1" FNPT     | 49        | 91985317 | 1.4           |
| Flomatic™ #4242SS2  | 1-1/4" MNPT | 1-1/4" FNPT | 49        | 91985309 | 1.5           |

### Check Valves - Ductile Iron

| Description    | Inlet   | Outlet  | Carton Qty. | Order    | Weight (lbs.) |
|----------------|---------|---------|-------------|----------|---------------|
| Simmons #658SB | 2" MNPT | 2" FNPT | 1           | 91982157 | 3.5           |
| Simmons #660SB | 3" MNPT | 3" FNPT | 1           | 91981266 | 10            |
| Simmons #661SB | 4" MNPT | 4" FNPT | 1           | 91980334 | 21            |

### Flomatic™ Poppet with Removable Ring (Patent Pending)

| Description   | Order     | Weight (lbs.) |
|---|-----------|---------------|
| Flomatic™ Poppet with Removable Ring (Patent Pending) | 91985259R | 0.1           |
| T-Handle Poppet Wrench                                | 23498207  | 1             |

### Reducer Bushing

| Description       | Inlet       | Outlet  | PSI Rating | Order     | Weight (lbs.) |
|-------------------|-------------|---------|------------|-----------|---------------|
| White PVC Bushing | 1-1/4" MNPT | 1" FNPT | 200 PSI    | 31031008R | 0.2           |

**Notes:** Flomatic™ is a trademark of the Danfoss Corporation.

## REFERENCES - FRICTION LOSS

### PVC SCHEDULE 80 IPS PLASTIC PIPE IN FEET PER 100 FEET OF PIPE

| Pipe Size | 1/2" |           | 3/4"       |           | 1"         |           | 1-1/4"     |           | 1.5"       |           | 2"         |           | 2.5"       |           | 3"         |           | 4"         |           | 6"         |           |            |
|-----------|------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
|           | GPM  | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) |
| 1         |      | 1.87      | 1.37       | 0.42      | 0.74       | 0.12      | 0.45       | 0.03      | 0.25       | 0.01      | 0.18       |           |            |           |            |           |            |           |            |           |            |
| 2         |      | 6.74      | 2.74       | 1.52      | 1.48       | 0.44      | 0.89       | 0.11      | 0.50       | 0.05      | 0.36       | 0.01      | 0.22       |           |            |           |            |           |            |           |            |
| 3         |      | 14.29     | 4.11       | 3.21      | 2.23       | 0.93      | 1.34       | 0.23      | 0.75       | 0.10      | 0.54       | 0.03      | 0.33       | 0.01      | 0.23       |           |            |           |            |           |            |
| 4         |      | 24.34     | 5.48       | 5.47      | 2.97       | 1.59      | 1.78       | 0.39      | 1.00       | 0.18      | 0.73       | 0.05      | 0.43       | 0.02      | 0.30       |           |            |           |            |           |            |
| 5         |      | 36.79     | 6.85       | 8.27      | 3.71       | 2.40      | 2.23       | 0.59      | 1.25       | 0.27      | 0.91       | 0.08      | 0.54       | 0.03      | 0.38       | 0.01      | 0.24       |           |            |           |            |
| 6         |      | 51.57     | 8.22       | 11.59     | 4.45       | 3.36      | 2.68       | 0.82      | 1.50       | 0.38      | 1.09       | 0.11      | 0.65       | 0.04      | 0.45       | 0.02      | 0.29       |           |            |           |            |
| 7         |      | 68.61     | 9.59       | 15.43     | 5.19       | 4.47      | 3.12       | 1.09      | 1.75       | 0.50      | 1.27       | 0.14      | 0.76       | 0.06      | 0.53       | 0.02      | 0.34       |           |            |           |            |
| 8         |      | 87.86     | 10.96      | 19.75     | 5.94       | 5.73      | 3.57       | 1.40      | 2.00       | 0.64      | 1.45       | 0.18      | 0.87       | 0.08      | 0.61       | 0.03      | 0.39       |           |            |           |            |
| 9         |      | 109.27    | 12.33      | 24.57     | 6.68       | 7.12      | 4.01       | 1.74      | 2.25       | 0.80      | 1.63       | 0.23      | 0.98       | 0.01      | 0.68       | 0.03      | 0.44       |           |            |           |            |
| 10        |      | 132.82    | 13.70      | 29.86     | 7.42       | 8.66      | 4.46       | 2.12      | 2.50       | 0.97      | 1.82       | 0.28      | 1.09       | 0.12      | 0.76       | 0.04      | 0.49       |           |            |           |            |
| 11        |      |           |            | 35.63     | 8.16       | 10.33     | 4.91       | 2.53      | 2.75       | 1.16      | 2.00       | 0.33      | 1.20       | 0.14      | 0.83       | 0.05      | 0.53       |           |            |           |            |
| 12        |      |           |            | 41.86     | 8.90       | 12.14     | 5.35       | 2.97      | 3.00       | 1.36      | 2.18       | 0.39      | 1.30       | 0.16      | 0.91       | 0.06      | 0.58       |           |            |           |            |
| 14        |      |           |            | 55.69     | 10.39      | 16.15     | 6.24       | 3.95      | 3.50       | 1.81      | 2.54       | 0.52      | 1.52       | 0.22      | 1.06       | 0.07      | 0.68       |           |            |           |            |
| 16        |      |           |            | 71.31     | 11.87      | 20.68     | 7.14       | 5.06      | 4.00       | 2.32      | 2.90       | 0.67      | 1.74       | 0.28      | 1.21       | 0.09      | 0.78       |           |            |           |            |
| 18        |      |           |            | 88.69     | 13.36      | 25.72     | 8.03       | 6.30      | 4.50       | 2.89      | 3.27       | 0.83      | 1.96       | 0.34      | 1.36       | 0.12      | 0.87       |           |            |           |            |
| 20        |      |           |            | 107.80    | 14.84      | 31.26     | 8.92       | 7.65      | 5.00       | 3.51      | 3.63       | 1.01      | 2.17       | 0.42      | 1.51       | 0.14      | 0.97       | 0.04      | 0.56       |           |            |
| 22        |      |           |            |           |            | 37.29     | 9.81       | 9.13      | 5.50       | 4.19      | 3.99       | 1.20      | 2.39       | 0.50      | 1.67       | 0.17      | 1.07       | 0.04      | 0.61       |           |            |
| 24        |      |           |            |           |            | 43.81     | 10.70      | 10.72     | 6.00       | 4.92      | 4.36       | 1.41      | 2.61       | 0.59      | 1.82       | 0.20      | 1.17       | 0.05      | 0.67       |           |            |
| 26        |      |           |            |           |            | 50.81     | 11.60      | 12.44     | 6.50       | 5.71      | 4.72       | 1.64      | 2.83       | 0.68      | 1.97       | 0.23      | 1.26       | 0.06      | 0.73       |           |            |
| 28        |      |           |            |           |            | 58.29     | 12.49      | 14.27     | 7.00       | 6.55      | 5.08       | 1.88      | 3.04       | 0.78      | 2.12       | 0.26      | 1.36       | 0.07      | 0.78       |           |            |
| 30        |      |           |            |           |            | 66.23     | 13.38      | 16.21     | 7.50       | 7.44      | 5.45       | 2.13      | 3.26       | 0.89      | 2.27       | 0.30      | 1.46       | 0.08      | 0.84       |           |            |
| 35        |      |           |            |           |            |           |            | 21.57     | 8.75       | 9.89      | 6.35       | 2.84      | 3.80       | 1.18      | 2.65       | 0.40      | 1.70       | 0.10      | 0.98       |           |            |
| 40        |      |           |            |           |            |           |            | 27.62     | 10.00      | 12.67     | 7.26       | 3.63      | 4.35       | 1.51      | 3.03       | 0.51      | 1.94       | 0.13      | 1.12       |           |            |
| 45        |      |           |            |           |            |           |            | 34.36     | 11.25      | 15.76     | 8.17       | 4.52      | 4.89       | 1.88      | 3.41       | 0.64      | 2.19       | 0.17      | 1.26       |           |            |
| 50        |      |           |            |           |            |           |            | 41.76     | 12.51      | 19.16     | 9.08       | 5.49      | 5.44       | 2.28      | 3.78       | 0.77      | 2.43       | 0.20      | 1.40       | 0.03      | 0.62       |
| 55        |      |           |            |           |            |           |            | 49.82     | 13.76      | 22.85     | 9.99       | 6.55      | 5.98       | 2.72      | 4.16       | 0.92      | 2.67       | 0.24      | 1.53       | 0.03      | 0.68       |
| 60        |      |           |            |           |            |           |            | 58.53     | 15.01      | 26.85     | 10.89      | 7.70      | 6.52       | 3.20      | 4.54       | 1.09      | 2.91       | 0.28      | 1.67       | 0.04      | 0.74       |
| 65        |      |           |            |           |            |           |            |           |            | 31.14     | 11.80      | 8.93      | 7.07       | 3.71      | 4.92       | 1.26      | 3.16       | 0.33      | 1.81       | 0.04      | 0.80       |
| 70        |      |           |            |           |            |           |            |           |            | 35.72     | 12.71      | 10.24     | 7.61       | 4.25      | 5.30       | 1.45      | 3.40       | 0.38      | 1.95       | 0.05      | 0.86       |
| 75        |      |           |            |           |            |           |            |           |            | 40.59     | 13.62      | 11.64     | 8.15       | 4.83      | 5.68       | 1.64      | 3.64       | 0.43      | 2.09       | 0.06      | 0.92       |
| 80        |      |           |            |           |            |           |            |           |            | 45.74     | 14.52      | 13.12     | 8.70       | 5.45      | 6.06       | 1.85      | 3.89       | 0.48      | 2.23       | 0.07      | 0.98       |
| 85        |      |           |            |           |            |           |            |           |            | 51.18     | 15.43      | 14.68     | 9.24       | 6.09      | 6.43       | 2.07      | 4.13       | 0.54      | 2.37       | 0.07      | 1.05       |
| 90        |      |           |            |           |            |           |            |           |            | 56.89     | 16.34      | 16.32     | 9.78       | 6.77      | 6.81       | 2.30      | 4.37       | 0.60      | 2.51       | 0.08      | 1.11       |
| 95        |      |           |            |           |            |           |            |           |            | 62.88     | 17.25      | 18.03     | 10.33      | 7.49      | 7.19       | 2.54      | 4.61       | 0.66      | 2.65       | 0.09      | 1.17       |
| 100       |      |           |            |           |            |           |            |           |            | 69.15     | 18.16      | 19.83     | 10.87      | 8.23      | 7.57       | 2.80      | 4.86       | 0.73      | 2.79       | 0.01      | 1.23       |
| 125       |      |           |            |           |            |           |            |           |            |           |            | 29.98     | 13.59      | 12.45     | 9.46       | 4.23      | 6.07       | 1.01      | 3.49       | 0.15      | 1.54       |
| 150       |      |           |            |           |            |           |            |           |            |           |            | 42.02     | 16.31      | 17.45     | 11.35      | 5.93      | 7.29       | 1.54      | 4.19       | 0.21      | 1.85       |
| 175       |      |           |            |           |            |           |            |           |            |           |            |           |            | 23.21     | 13.25      | 7.89      | 8.50       | 2.05      | 4.88       | 0.28      | 2.15       |

Notes: Suction velocities should not exceed 8 feet per second. Calculated using Williams and Hazen formula using C = 150.

## REFERENCES - FRICTION LOSS

### WATER IN FEET PER 100 FEET OF STEEL PIPE

| GPM | Pipe Size 1/2"    |              |               | Pipe Size 3/4"    |              |               | Pipe Size 1"      |              |               | Pipe Size 1-1/4" |              |               | Pipe Size 1-1/2" |              |               |
|-----|-------------------|--------------|---------------|-------------------|--------------|---------------|-------------------|--------------|---------------|------------------|--------------|---------------|------------------|--------------|---------------|
|     | Actual size 0.622 |              |               | Actual size 0.824 |              |               | Actual size 1.049 |              |               | Actual size 1.38 |              |               | Actual size 1.61 |              |               |
|     | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction         | Vel (ft/sec) | Vel Head (ft) | Friction         | Vel (ft/sec) | Vel Head (ft) |
| 1   | 2.099             | 1.056        | 0.017         | 0.534             | 0.602        | 0.006         | 0.165             | 0.371        | 0.002         | 0.043            | 0.215        | 0.001         | 0.021            | 0.158        | 0.000         |
| 2   | 7.577             | 2.112        | 0.069         | 1.929             | 1.203        | 0.023         | 0.596             | 0.742        | 0.009         | 0.157            | 0.429        | 0.003         | 0.074            | 0.315        | 0.002         |
| 3   | 16.056            | 3.168        | 0.156         | 4.087             | 1.805        | 0.051         | 1.263             | 1.114        | 0.019         | 0.332            | 0.644        | 0.006         | 0.157            | 0.473        | 0.003         |
| 4   | 27.354            | 4.223        | 0.277         | 6.962             | 2.407        | 0.090         | 2.151             | 1.485        | 0.034         | 0.566            | 0.858        | 0.011         | 0.268            | 0.630        | 0.006         |
| 5   | 41.352            | 5.279        | 0.433         | 10.525            | 3.008        | 0.141         | 3.252             | 1.856        | 0.054         | 0.856            | 1.073        | 0.018         | 0.404            | 0.788        | 0.011         |
| 6   | 57.961            | 6.335        | 0.624         | 14.753            | 3.610        | 0.203         | 4.558             | 2.227        | 0.077         | 1.200            | 1.287        | 0.026         | 0.567            | 0.946        | 0.014         |
| 7   | 77.112            | 7.391        | 0.849         | 19.628            | 4.211        | 0.276         | 6.064             | 2.599        | 0.105         | 1.597            | 1.502        | 0.035         | 0.754            | 1.103        | 0.019         |
| 8   | 98.747            | 8.447        | 1.109         | 25.134            | 4.813        | 0.360         | 7.765             | 2.970        | 0.137         | 2.045            | 1.716        | 0.046         | 0.966            | 1.261        | 0.025         |
| 9   | 122.817           | 9.503        | 1.404         | 31.261            | 5.415        | 0.456         | 9.657             | 3.341        | 0.173         | 2.543            | 1.931        | 0.058         | 1.201            | 1.418        | 0.031         |
| 10  | 149.280           | 10.559       | 1.733         | 37.997            | 6.016        | 0.563         | 11.738            | 3.712        | 0.214         | 3.091            | 2.145        | 0.072         | 1.460            | 1.576        | 0.039         |
| 11  | 178.099           | 11.615       | 2.097         | 45.332            | 6.618        | 0.681         | 14.004            | 4.083        | 0.259         | 3.688            | 2.360        | 0.087         | 1.742            | 1.734        | 0.047         |
| 12  | 209.241           | 12.670       | 2.495         | 53.259            | 7.220        | 0.810         | 16.453            | 4.455        | 0.308         | 4.333            | 2.574        | 0.103         | 2.047            | 1.891        | 0.056         |
| 13  | 242.675           | 13.726       | 2.928         | 61.769            | 7.821        | 0.951         | 19.082            | 4.826        | 0.362         | 5.025            | 2.789        | 0.121         | 2.374            | 2.049        | 0.065         |
| 14  | 278.376           | 14.782       | 3.396         | 70.856            | 8.423        | 1.103         | 21.889            | 5.197        | 0.420         | 5.764            | 3.003        | 0.140         | 2.723            | 2.206        | 0.076         |
| 15  | 316.317           | 15.838       | 3.899         | 80.513            | 9.025        | 1.266         | 24.873            | 5.568        | 0.482         | 6.550            | 3.218        | 0.161         | 3.094            | 2.364        | 0.087         |
| 16  |                   |              |               | 90.735            | 9.626        | 1.440         | 28.031            | 5.940        | 0.548         | 7.381            | 3.432        | 0.183         | 3.487            | 2.521        | 0.099         |
| 17  |                   |              |               | 101.517           | 10.228       | 1.626         | 31.362            | 6.311        | 0.619         | 8.258            | 3.647        | 0.207         | 3.901            | 2.679        | 0.112         |
| 18  |                   |              |               | 112.852           | 10.829       | 1.823         | 34.863            | 6.682        | 0.694         | 9.181            | 3.861        | 0.232         | 4.337            | 2.837        | 0.125         |
| 19  |                   |              |               | 124.738           | 11.431       | 2.031         | 38.535            | 7.053        | 0.773         | 10.148           | 4.076        | 0.258         | 4.793            | 2.994        | 0.139         |
| 20  |                   |              |               | 137.168           | 12.033       | 2.250         | 42.375            | 7.425        | 0.857         | 11.159           | 4.290        | 0.286         | 5.271            | 3.152        | 0.154         |
| 21  |                   |              |               | 150.140           | 12.634       | 2.481         | 46.383            | 7.796        | 0.945         | 12.214           | 4.505        | 0.315         | 5.769            | 3.309        | 0.170         |
| 22  |                   |              |               | 163.649           | 13.236       | 2.723         | 50.556            | 8.167        | 1.037         | 13.313           | 4.719        | 0.346         | 6.288            | 3.467        | 0.187         |
| 23  |                   |              |               | 177.691           | 13.838       | 2.976         | 54.894            | 8.538        | 1.133         | 14.455           | 4.934        | 0.378         | 6.828            | 3.625        | 0.204         |
| 24  |                   |              |               | 192.263           | 14.439       | 3.241         | 59.396            | 8.909        | 1.234         | 15.641           | 5.148        | 0.412         | 7.388            | 3.782        | 0.222         |
| 25  |                   |              |               | 207.363           | 15.041       | 3.516         | 64.061            | 9.281        | 1.339         | 16.869           | 5.363        | 0.447         | 7.968            | 3.940        | 0.241         |
| 26  |                   |              |               | 222.985           | 15.643       | 3.803         | 68.887            | 9.652        | 1.448         | 18.140           | 5.577        | 0.483         | 8.569            | 4.097        | 0.261         |
| 27  |                   |              |               | 239.128           | 16.244       | 4.101         | 73.874            | 10.023       | 1.561         | 19.453           | 5.792        | 0.521         | 9.189            | 4.255        | 0.281         |
| 28  |                   |              |               | 255.789           | 16.846       | 4.411         | 79.021            | 10.394       | 1.679         | 20.809           | 6.006        | 0.561         | 9.829            | 4.413        | 0.303         |
| 29  |                   |              |               | 272.965           | 17.448       | 4.731         | 84.327            | 10.766       | 1.801         | 22.206           | 6.221        | 0.601         | 10.489           | 4.570        | 0.325         |
| 30  |                   |              |               | 290.652           | 18.049       | 5.063         | 89.791            | 11.137       | 1.928         | 23.645           | 6.435        | 0.644         | 11.169           | 4.728        | 0.347         |
| 32  |                   |              |               |                   |              |               | 101.191           | 11.879       | 2.193         | 26.647           | 6.864        | 0.732         | 12.587           | 5.043        | 0.395         |
| 34  |                   |              |               |                   |              |               | 113.215           | 12.622       | 2.476         | 29.813           | 7.293        | 0.827         | 14.082           | 5.358        | 0.446         |
| 36  |                   |              |               |                   |              |               | 125.857           | 13.364       | 2.776         | 33.142           | 7.722        | 0.927         | 15.655           | 5.673        | 0.500         |
| 38  |                   |              |               |                   |              |               | 139.112           | 14.107       | 3.093         | 36.633           | 8.151        | 1.033         | 17.304           | 5.989        | 0.557         |
| 40  |                   |              |               |                   |              |               | 152.975           | 14.849       | 3.427         | 40.283           | 8.580        | 1.144         | 19.028           | 6.304        | 0.618         |
| 42  |                   |              |               |                   |              |               | 167.442           | 15.592       | 3.778         | 44.093           | 9.009        | 1.261         | 20.827           | 6.619        | 0.681         |
| 44  |                   |              |               |                   |              |               | 182.507           | 16.334       | 4.147         | 48.060           | 9.438        | 1.384         | 22.701           | 6.934        | 0.747         |
| 46  |                   |              |               |                   |              |               | 198.168           | 17.076       | 4.532         | 52.184           | 9.867        | 1.513         | 24.649           | 7.249        | 0.817         |
| 48  |                   |              |               |                   |              |               | 214.420           | 17.819       | 4.935         | 56.463           | 10.296       | 1.648         | 26.671           | 7.564        | 0.889         |
| 50  |                   |              |               |                   |              |               | 231.259           | 18.561       | 5.355         | 60.898           | 10.725       | 1.788         | 28.765           | 7.880        | 0.965         |
| 55  |                   |              |               |                   |              |               | 275.904           | 20.417       | 6.479         | 72.654           | 11.798       | 2.163         | 34.319           | 8.668        | 1.168         |
| 60  |                   |              |               |                   |              |               | 324.147           | 22.274       | 7.711         | 85.358           | 12.870       | 2.574         | 40.319           | 9.456        | 1.390         |
| 65  |                   |              |               |                   |              |               | 375.943           | 24.130       | 9.049         | 98.997           | 13.943       | 3.021         | 46.762           | 10.244       | 1.631         |
| 70  |                   |              |               |                   |              |               | 431.249           | 25.986       | 10.495        | 113.561          | 15.015       | 3.504         | 53.641           | 11.032       | 1.891         |
| 75  |                   |              |               |                   |              |               | 490.027           | 27.842       | 12.048        | 129.039          | 16.088       | 4.023         | 60.952           | 11.820       | 2.171         |
| 80  |                   |              |               |                   |              |               | 552.241           | 29.698       | 13.708        | 145.422          | 17.160       | 4.577         | 68.691           | 12.607       | 2.470         |
| 85  |                   |              |               |                   |              |               | 617.860           | 31.554       | 15.475        | 162.701          | 18.233       | 5.167         | 76.853           | 13.395       | 2.789         |
| 90  |                   |              |               |                   |              |               | 686.852           | 33.410       | 17.349        | 180.869          | 19.305       | 5.793         | 85.435           | 14.183       | 3.127         |
| 95  |                   |              |               |                   |              |               | 759.190           | 35.267       | 19.331        | 199.918          | 20.378       | 6.454         | 94.433           | 14.971       | 3.484         |
| 100 |                   |              |               |                   |              |               | 834.846           | 37.123       | 21.419        | 219.840          | 21.450       | 7.151         | 103.843          | 15.759       | 3.860         |
| 110 |                   |              |               |                   |              |               |                   |              |               | 262.281          | 23.595       | 8.653         | 123.890          | 17.335       | 4.671         |
| 120 |                   |              |               |                   |              |               |                   |              |               | 308.142          | 25.740       | 10.298        | 145.553          | 18.911       | 5.559         |
| 130 |                   |              |               |                   |              |               |                   |              |               | 357.380          | 27.885       | 12.086        | 168.811          | 20.487       | 6.524         |
| 140 |                   |              |               |                   |              |               |                   |              |               | 409.955          | 30.030       | 14.016        | 193.645          | 22.063       | 7.566         |
| 150 |                   |              |               |                   |              |               |                   |              |               | 465.831          | 32.175       | 16.090        | 220.039          | 23.639       | 8.685         |

Notes: Suction velocities should not exceed 8 feet per second.



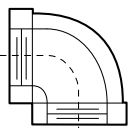
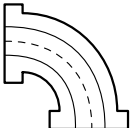
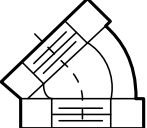
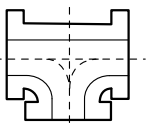

## REFERENCES - FRICTION LOSS

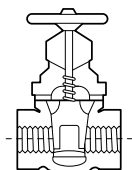
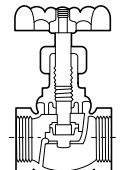
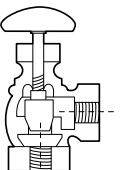
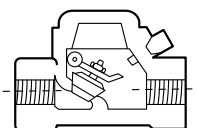
### WATER IN FEET PER 100 FEET OF STEEL PIPE

| GPM | Pipe Size 2"      |              |               | Pipe Size 2.5"    |              |               | Pipe Size 3"      |              |               | Pipe Size 3.5"    |              |               |
|-----|-------------------|--------------|---------------|-------------------|--------------|---------------|-------------------|--------------|---------------|-------------------|--------------|---------------|
|     | Actual size 2.067 |              |               | Actual size 2.469 |              |               | Actual size 3.068 |              |               | Actual size 3.548 |              |               |
|     | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction          | Vel (ft/sec) | Vel Head (ft) | Friction          | Vel (ft/sec) | Vel Head (ft) |
| 2   | 0.022             | 0.191        | 0.001         |                   |              |               |                   |              |               |                   |              |               |
| 3   | 0.047             | 0.287        | 0.001         | 0.020             | 0.201        | 0.001         |                   |              |               |                   |              |               |
| 4   | 0.079             | 0.383        | 0.002         | 0.033             | 0.268        | 0.001         |                   |              |               |                   |              |               |
| 5   | 0.120             | 0.478        | 0.004         | 0.051             | 0.335        | 0.002         | 0.018             | 0.217        | 0.001         | 0.009             | 0.162        | 0.000         |
| 6   | 0.168             | 0.574        | 0.005         | 0.071             | 0.402        | 0.003         | 0.025             | 0.260        | 0.001         | 0.012             | 0.195        | 0.001         |
| 7   | 0.224             | 0.670        | 0.007         | 0.094             | 0.469        | 0.003         | 0.033             | 0.304        | 0.001         | 0.016             | 0.227        | 0.001         |
| 8   | 0.286             | 0.765        | 0.009         | 0.121             | 0.536        | 0.004         | 0.042             | 0.347        | 0.002         | 0.021             | 0.260        | 0.001         |
| 9   | 0.356             | 0.861        | 0.012         | 0.150             | 0.603        | 0.006         | 0.052             | 0.391        | 0.002         | 0.026             | 0.292        | 0.001         |
| 10  | 0.433             | 0.957        | 0.014         | 0.182             | 0.670        | 0.007         | 0.063             | 0.434        | 0.003         | 0.031             | 0.325        | 0.002         |
| 11  | 0.516             | 1.052        | 0.017         | 0.218             | 0.737        | 0.008         | 0.076             | 0.477        | 0.004         | 0.037             | 0.357        | 0.002         |
| 12  | 0.607             | 1.148        | 0.020         | 0.256             | 0.804        | 0.010         | 0.089             | 0.521        | 0.004         | 0.044             | 0.389        | 0.002         |
| 13  | 0.704             | 1.244        | 0.024         | 0.296             | 0.871        | 0.012         | 0.103             | 0.564        | 0.005         | 0.051             | 0.422        | 0.003         |
| 14  | 0.807             | 1.339        | 0.028         | 0.340             | 0.938        | 0.014         | 0.118             | 0.608        | 0.006         | 0.058             | 0.454        | 0.003         |
| 15  | 0.917             | 1.435        | 0.032         | 0.386             | 1.005        | 0.016         | 0.134             | 0.651        | 0.007         | 0.066             | 0.487        | 0.004         |
| 16  | 1.034             | 1.531        | 0.036         | 0.435             | 1.072        | 0.018         | 0.151             | 0.694        | 0.007         | 0.075             | 0.519        | 0.004         |
| 17  | 1.157             | 1.626        | 0.041         | 0.487             | 1.139        | 0.020         | 0.169             | 0.738        | 0.008         | 0.083             | 0.552        | 0.005         |
| 18  | 1.286             | 1.722        | 0.046         | 0.542             | 1.206        | 0.023         | 0.188             | 0.781        | 0.009         | 0.093             | 0.584        | 0.005         |
| 19  | 1.421             | 1.818        | 0.051         | 0.599             | 1.273        | 0.025         | 0.208             | 0.825        | 0.011         | 0.103             | 0.617        | 0.006         |
| 20  | 1.563             | 1.913        | 0.057         | 0.658             | 1.340        | 0.028         | 0.229             | 0.868        | 0.012         | 0.113             | 0.649        | 0.007         |
| 21  | 1.711             | 2.009        | 0.063         | 0.720             | 1.407        | 0.031         | 0.250             | 0.911        | 0.013         | 0.123             | 0.681        | 0.007         |
| 22  | 1.865             | 2.105        | 0.069         | 0.785             | 1.474        | 0.034         | 0.273             | 0.955        | 0.014         | 0.135             | 0.714        | 0.008         |
| 23  | 2.025             | 2.200        | 0.075         | 0.853             | 1.541        | 0.037         | 0.296             | 0.998        | 0.015         | 0.146             | 0.746        | 0.009         |
| 24  | 2.191             | 2.296        | 0.082         | 0.923             | 1.608        | 0.040         | 0.321             | 1.042        | 0.017         | 0.158             | 0.779        | 0.009         |
| 25  | 2.363             | 2.391        | 0.089         | 0.995             | 1.675        | 0.044         | 0.346             | 1.085        | 0.018         | 0.171             | 0.811        | 0.010         |
| 26  | 2.541             | 2.487        | 0.096         | 1.070             | 1.742        | 0.047         | 0.372             | 1.128        | 0.020         | 0.183             | 0.844        | 0.011         |
| 27  | 2.724             | 2.583        | 0.104         | 1.148             | 1.809        | 0.051         | 0.399             | 1.172        | 0.021         | 0.197             | 0.876        | 0.012         |
| 28  | 2.914             | 2.678        | 0.112         | 1.227             | 1.876        | 0.055         | 0.427             | 1.215        | 0.023         | 0.210             | 0.909        | 0.013         |
| 29  | 3.110             | 2.774        | 0.120         | 1.310             | 1.943        | 0.059         | 0.455             | 1.259        | 0.025         | 0.224             | 0.941        | 0.014         |
| 30  | 3.312             | 2.870        | 0.128         | 1.395             | 2.010        | 0.063         | 0.485             | 1.302        | 0.026         | 0.239             | 0.974        | 0.015         |
| 32  | 3.732             | 3.061        | 0.146         | 1.572             | 2.144        | 0.071         | 0.546             | 1.389        | 0.030         | 0.269             | 1.038        | 0.017         |
| 34  | 4.175             | 3.252        | 0.164         | 1.759             | 2.278        | 0.081         | 0.611             | 1.476        | 0.034         | 0.301             | 1.103        | 0.019         |
| 36  | 4.642             | 3.444        | 0.184         | 1.955             | 2.412        | 0.090         | 0.679             | 1.562        | 0.038         | 0.335             | 1.168        | 0.021         |
| 38  | 5.130             | 3.635        | 0.205         | 2.161             | 2.546        | 0.101         | 0.751             | 1.649        | 0.042         | 0.370             | 1.233        | 0.024         |
| 40  | 5.642             | 3.826        | 0.228         | 2.376             | 2.680        | 0.112         | 0.826             | 1.736        | 0.047         | 0.407             | 1.298        | 0.026         |
| 42  | 6.175             | 4.018        | 0.251         | 2.601             | 2.814        | 0.123         | 0.904             | 1.823        | 0.052         | 0.446             | 1.363        | 0.029         |
| 44  | 6.731             | 4.209        | 0.275         | 2.835             | 2.948        | 0.135         | 0.985             | 1.910        | 0.057         | 0.486             | 1.428        | 0.032         |
| 46  | 7.308             | 4.400        | 0.301         | 3.078             | 3.083        | 0.148         | 1.070             | 1.996        | 0.062         | 0.527             | 1.493        | 0.035         |
| 48  | 7.908             | 4.592        | 0.328         | 3.331             | 3.217        | 0.161         | 1.158             | 2.083        | 0.067         | 0.571             | 1.558        | 0.038         |
| 50  | 8.529             | 4.783        | 0.356         | 3.592             | 3.351        | 0.174         | 1.248             | 2.170        | 0.073         | 0.616             | 1.623        | 0.041         |
| 55  | 10.175            | 5.261        | 0.430         | 4.286             | 3.686        | 0.211         | 1.490             | 2.387        | 0.089         | 0.734             | 1.785        | 0.050         |
| 60  | 11.955            | 5.740        | 0.512         | 5.035             | 4.021        | 0.251         | 1.750             | 2.604        | 0.105         | 0.863             | 1.947        | 0.059         |
| 65  | 13.865            | 6.218        | 0.601         | 5.840             | 4.356        | 0.295         | 2.030             | 2.821        | 0.124         | 1.001             | 2.109        | 0.069         |
| 70  | 15.905            | 6.696        | 0.697         | 6.699             | 4.691        | 0.342         | 2.328             | 3.038        | 0.143         | 1.148             | 2.272        | 0.080         |
| 75  | 18.072            | 7.174        | 0.800         | 7.612             | 5.026        | 0.393         | 2.646             | 3.255        | 0.165         | 1.304             | 2.434        | 0.092         |
| 80  | 20.367            | 7.653        | 0.910         | 8.578             | 5.361        | 0.447         | 2.981             | 3.472        | 0.187         | 1.470             | 2.596        | 0.105         |
| 85  | 22.787            | 8.131        | 1.028         | 9.598             | 5.696        | 0.504         | 3.336             | 3.689        | 0.212         | 1.644             | 2.758        | 0.118         |
| 90  | 25.331            | 8.609        | 1.152         | 10.669            | 6.031        | 0.565         | 3.708             | 3.906        | 0.237         | 1.828             | 2.921        | 0.133         |
| 95  | 27.999            | 9.088        | 1.284         | 11.793            | 6.366        | 0.630         | 4.099             | 4.123        | 0.264         | 2.021             | 3.083        | 0.148         |
| 100 | 30.789            | 9.566        | 1.422         | 12.968            | 6.701        | 0.698         | 4.507             | 4.340        | 0.293         | 2.222             | 3.245        | 0.164         |
| 110 | 36.733            | 10.523       | 1.721         | 15.472            | 7.371        | 0.845         | 5.377             | 4.774        | 0.354         | 2.651             | 3.570        | 0.198         |
| 120 | 43.156            | 11.479       | 2.048         | 18.177            | 8.041        | 1.005         | 6.317             | 5.208        | 0.422         | 3.114             | 3.894        | 0.236         |
| 130 | 50.052            | 12.436       | 2.404         | 21.081            | 8.711        | 1.180         | 7.327             | 5.642        | 0.495         | 3.612             | 4.219        | 0.277         |
| 140 | 57.416            | 13.392       | 2.788         | 24.183            | 9.382        | 1.368         | 8.405             | 6.076        | 0.574         | 4.144             | 4.543        | 0.321         |
| 150 | 65.241            | 14.349       | 3.200         | 27.479            | 10.052       | 1.570         | 9.550             | 6.510        | 0.659         | 4.708             | 4.868        | 0.368         |

Notes: Suction velocities should not exceed 8 feet per second.

## REFERENCES - PIPE FITTINGS

| Friction Losses in Terms of Equivalent Lengths of Standard Pipe |   |   |   |   |   |
|---|---|---|---|---|---|
| Pipe Size   | Standard 90 ° Elbow   | Long Radius Elbow   | 45 ° Elbow  | Tee   | Return Bend   |
|   |  |  |  |  |  |
| 1/2"  | 1.5   | 1.1   | 0.77  | 3.4   | 3.8   |
| 3/4"  | 2.2   | 1.4   | 1   | 4.5   | 5   |
| 1"  | 2.7   | 1.7   | 1.3   | 5.8   | 6.1   |
| 1-1/4"  | 3.7   | 2.4   | 1.6   | 7.8   | 8.5   |
| 1.5"  | 4.3   | 2.8   | 2   | 9   | 10  |
| 2"  | 5.5   | 3.5   | 2.5   | 11  | 13  |
| 2.5"  | 6.5   | 4.2   | 3   | 14  | 15  |
| 3"  | 8.1   | 5.1   | 3.8   | 17  | 18  |
| 3.5"  | 9.5   | 6   | 4.4   | 19  | 21  |
| 4"  | 11  | 7   | 5   | 22  | 24  |
| 4.5"  | 12  | 7.9   | 5.6   | 24  | 27  |
| 5"  | 14  | 8.9   | 6.1   | 27  | 31  |
| 6"  | 16  | 11  | 7.7   | 33  | 37  |

| Friction Losses in Terms of Equivalent Lengths of Standard Pipe |   |   |  |   |
|---|---|---|--|---|
| Pipe Size   | Gate Valve Open   | Globe Valve Open  | Angle Valve Open   | Swing Check Valve   |
|   |  |  |  |  |
| 1/2"  | 0.35  | 16  | 8.4  | 4   |
| 3/4"  | 0.47  | 22  | 12   | 5   |
| 1"  | 0.6   | 27  | 15   | 7   |
| 1-1/4"  | 0.8   | 37  | 18   | 9   |
| 1.5"  | 0.95  | 44  | 22   | 11  |
| 2"  | 1.2   | 57  | 28   | 13  |
| 2.5"  | 1.4   | 66  | 33   | 16  |
| 3"  | 1.7   | 85  | 42   | 20  |
| 3.5"  | 2   | 99  | 50   |   |
| 4"  | 2.3   | 110   | 58   | 26  |
| 4.5"  | 2.6   | 130   | 61   |   |
| 5"  | 2.9   | 140   | 70   | 33  |
| 6"  | 3.5   | 160   | 83   | 39  |

## REFERENCES - PRESSURE LOSS

### SWING CHECK VALVES

| Flow GPM | Pressure Loss (PSI) |      |     |        |      |     |
|----------|---------------------|------|-----|--------|------|-----|
|          | Valve Size          |      |     |        |      |     |
|          | 1/2"                | 3/4" | 1"  | 1-1/4" | 1.5" | 2"  |
| 2        | 0.2                 |      |     |        |      |     |
| 3        | .05                 |      |     |        |      |     |
| 6        | 1.0                 | 0.3  |     |        |      |     |
| 8        | 1.7                 | 0.5  |     |        |      |     |
| 10       | 2.6                 | 0.8  | 0.3 |        |      |     |
| 12       | 3.6                 | 1.1  | 0.5 |        |      |     |
| 14       | 4.8                 | 1.5  | 0.6 |        |      |     |
| 16       |                     | 2.0  | 0.9 |        |      |     |
| 18       |                     | 2.4  | 1.0 |        |      |     |
| 20       |                     | 3.0  | 1.2 | 0.4    |      |     |
| 22       |                     | 3.5  | 1.4 | 0.5    |      |     |
| 24       |                     | 4.1  | 1.7 | 0.6    |      |     |
| 26       |                     | 4.8  | 2.0 | 0.7    | 0.4  |     |
| 28       |                     |      | 2.2 | 0.8    | 0.5  |     |
| 30       |                     |      | 2.5 | 0.9    | 0.5  |     |
| 32       |                     |      | 2.9 | 1.1    | 0.6  |     |
| 34       |                     |      | 3.2 | 1.2    | 0.6  |     |
| 36       |                     |      | 3.6 | 1.3    | 0.7  |     |
| 38       |                     |      | 3.9 | 1.5    | 0.8  |     |
| 40       |                     |      | 4.3 | 1.6    | 0.8  | 0.3 |
| 42       |                     |      | 4.7 | 1.7    | 0.9  | 0.3 |
| 44       |                     |      |     | 1.9    | 1.0  | 0.4 |

| Flow GPM | Pressure Loss (PSI) |      |     |      |     |    |
|----------|---------------------|------|-----|------|-----|----|
|          | Valve Size          |      |     |      |     |    |
|          | 1-1/4"              | 1.5" | 2"  | 2.5" | 3"  | 4" |
| 46       | 2.1                 | 1.1  | 0.4 |      |     |    |
| 48       | 2.2                 | 1.2  | 0.5 |      |     |    |
| 50       | 2.4                 | 1.3  | 0.5 |      |     |    |
| 55       | 2.9                 | 1.5  | 0.6 |      |     |    |
| 60       | 3.4                 | 1.8  | 0.7 |      |     |    |
| 65       | 3.9                 | 2.0  | 0.8 |      |     |    |
| 70       | 4.5                 | 2.4  | 0.9 | 0.4  |     |    |
| 75       |                     | 2.7  | 1.0 | 0.5  |     |    |
| 80       |                     | 3.0  | 1.2 | 0.6  |     |    |
| 90       |                     | 3.7  | 1.5 | 0.7  |     |    |
| 100      |                     | 4.6  | 1.8 | 0.9  | 0.4 |    |
| 120      |                     |      | 2.5 | 1.2  | 0.5 |    |
| 140      |                     |      | 3.3 | 1.6  | 0.7 |    |

### SWING CHECK VALVES

| Flow GPM | Pressure Loss (PSI) |      |     |        |      |     |      |     |     |  |
|----------|---------------------|------|-----|--------|------|-----|------|-----|-----|--|
|          | Valve Size          |      |     |        |      |     |      |     |     |  |
|          | 1/2"                | 3/4" | 1"  | 1-1/4" | 1.5" | 2"  | 2.5" | 3"  | 4"  |  |
| 1        |                     |      |     |        |      |     |      |     |     |  |
| 2        | .01                 |      |     |        |      |     |      |     |     |  |
| 5        | .06                 | .02  |     |        |      |     |      |     |     |  |
| 8        | .16                 | .05  | .02 |        |      |     |      |     |     |  |
| 10       | .24                 | .08  | .03 | .01    |      |     |      |     |     |  |
| 15       |                     | .17  | .06 | .02    | .01  |     |      |     |     |  |
| 20       |                     | .31  | .11 | .03    | .02  |     |      |     |     |  |
| 30       |                     |      | .24 | .07    | .04  | .01 |      |     |     |  |
| 40       |                     |      | .43 | .13    | .07  | .02 | .01  |     |     |  |
| 50       |                     |      | .67 | .21    | .11  | .04 | .02  |     |     |  |
| 60       |                     |      |     | .30    | .15  | .05 | .03  | .01 |     |  |
| 80       |                     |      |     | .54    | .28  | .10 | .05  | .02 |     |  |
| 100      |                     |      |     |        | .43  | .15 | .07  | .03 |     |  |
| 120      |                     |      |     |        | .62  | .22 | .10  | .04 | .02 |  |
| 140      |                     |      |     |        | .85  | .30 | .14  | .06 |     |  |
| 160      |                     |      |     |        |      | .40 | .18  | .07 | .03 |  |

## REFERENCES - PRESSURE LOSS

### WATER METERS - AWWA STANDARD

| Flow<br>GPM | Pressure Loss |      |      |      |      |     |     |
|-------------|---------------|------|------|------|------|-----|-----|
|             | Normal Size   |      |      |      |      |     |     |
|             | 5/8"          | 3/4" | 1"   | 1.5" | 2"   | 3"  | 4"  |
| 1           | 0.2           | 0.1  |      |      |      |     |     |
| 2           | 0.3           | 0.2  |      |      |      |     |     |
| 3           | 0.4           | 0.3  |      |      |      |     |     |
| 4           | 0.6           | 0.5  | 0.1  |      |      |     |     |
| 5           | 0.9           | 0.6  | 0.2  |      |      |     |     |
| 6           | 1.3           | 0.7  | 0.3  |      |      |     |     |
| 7           | 1.8           | 0.8  | 0.4  |      |      |     |     |
| 8           | 2.3           | 1.0  | 0.5  |      |      |     |     |
| 9           | 3.0           | 1.3  | 0.6  |      |      |     |     |
| 10          | 3.7           | 1.6  | 0.7  |      |      |     |     |
| 11          | 4.4           | 1.9  | 0.8  |      |      |     |     |
| 12          | 5.1           | 2.2  | 0.9  |      |      |     |     |
| 13          | 6.1           | 2.6  | 1.0  |      |      |     |     |
| 14          | 7.2           | 3.1  | 1.1  |      |      |     |     |
| 15          | 8.3           | 3.6  | 1.2  |      |      |     |     |
| 16          | 9.4           | 4.1  | 1.4  | 0.4  |      |     |     |
| 17          | 10.7          | 4.6  | 1.6  | 0.5  |      |     |     |
| 18          | 12.0          | 5.2  | 1.8  | 0.6  |      |     |     |
| 19          | 13.4          | 5.8  | 2.0  | 0.7  |      |     |     |
| 20          | 15.0          | 6.5  | 2.2  | 0.8  |      |     |     |
| 22          |               | 7.9  | 2.8  | 1.0  |      |     |     |
| 24          |               | 9.5  | 3.4  | 1.2  |      |     |     |
| 26          |               | 11.2 | 4.0  | 1.4  |      |     |     |
| 28          |               | 13.0 | 4.6  | 1.6  |      |     |     |
| 30          |               | 15.0 | 5.3  | 1.8  | 0.7  |     |     |
| 32          |               |      | 6.0  | 2.1  | 0.8  |     |     |
| 34          |               |      | 6.9  | 2.4  | 0.9  |     |     |
| 36          |               |      | 7.8  | 2.7  | 1.0  |     |     |
| 38          |               |      | 8.7  | 3.0  | 1.2  |     |     |
| 40          |               |      | 9.6  | 3.3  | 1.3  |     |     |
| 42          |               |      | 10.6 | 3.6  | 1.4  |     |     |
| 44          |               |      | 11.7 | 3.9  | 1.5  |     |     |
| 46          |               |      | 12.8 | 4.2  | 1.6  |     |     |
| 48          |               |      | 13.9 | 4.5  | 1.7  |     |     |
| 50          |               |      | 15.0 | 4.9  | 1.9  |     |     |
| 52          |               |      |      | 5.3  | 2.1  |     |     |
| 54          |               |      |      | 5.7  | 2.2  |     |     |
| 56          |               |      |      | 6.2  | 2.3  |     |     |
| 58          |               |      |      | 6.7  | 2.5  |     |     |
| 60          |               |      |      | 7.2  | 2.7  | 1.0 |     |
| 65          |               |      |      | 8.3  | 3.2  | 1.1 |     |
| 70          |               |      |      | 9.8  | 3.7  | 1.3 |     |
| 75          |               |      |      | 11.3 | 4.3  | 1.5 |     |
| 80          |               |      |      | 12.8 | 4.9  | 1.6 | 0.7 |
| 90          |               |      |      | 16.1 | 6.2  | 2.0 | 0.8 |
| 100         |               |      |      | 20.0 | 7.8  | 2.5 | 0.9 |
| 110         |               |      |      |      | 9.5  | 2.9 | 1.0 |
| 120         |               |      |      |      | 11.3 | 3.4 | 1.2 |
| 130         |               |      |      |      | 13.0 | 3.9 | 1.4 |
| 140         |               |      |      |      | 15.1 | 4.5 | 1.6 |
| 150         |               |      |      |      | 17.3 | 5.1 | 1.8 |

## REFERENCES - PRESSURE TANK SIZING

### PRESSURE TANK SELECTION CHART - MINIMUM TANK VOLUMES FOR PROPER SYSTEM LIFE

| Pump Capacity |     | Minimum Drawdown | Total Tank Volume (Gallons) |     |     |       |     |     |       |     |     |
|---------------|-----|------------------|-----------------------------|-----|-----|-------|-----|-----|-------|-----|-----|
|               |     |                  | Switch Setting (PSI)        |     |     |       |     |     |       |     |     |
|               |     |                  | 20-40                       |     |     | 30-50 |     |     | 40-60 |     |     |
| GPH           | GPM | Gallons          | A                           | B   | C   | A     | B   | C   | A     | B   | C   |
| 240           | 4   | 4                | 10                          | 15  | 25  | 15    | 15  | 40  | 15    | 15  | 55  |
| 300           | 5   | 5                | 15                          | 15  | 30  | 15    | 20  | 50  | 20    | 20  | 70  |
| 360           | 6   | 6                | 15                          | 20  | 40  | 20    | 20  | 60  | 20    | 25  | 85  |
| 420           | 7   | 7                | 20                          | 20  | 45  | 35    | 25  | 70  | 25    | 30  | 100 |
| 480           | 8   | 8                | 20                          | 25  | 50  | 35    | 25  | 80  | 30    | 30  | 110 |
| 540           | 9   | 9                | 25                          | 25  | 60  | 30    | 30  | 90  | 35    | 35  | 125 |
| 600           | 10  | 10               | 30                          | 30  | 65  | 30    | 35  | 100 | 40    | 40  | 140 |
| 660           | 11  | 12               | 35                          | 35  | 80  | 40    | 40  | 120 | 45    | 45  | 165 |
| 720           | 12  | 13               | 35                          | 40  | 85  | 40    | 45  | 130 | 50    | 50  | 180 |
| 780           | 13  | 15               | 40                          | 45  | 100 | 50    | 50  | 150 | 55    | 60  | 210 |
| 840           | 14  | 17               | 45                          | 50  | 110 | 55    | 55  | 170 | 65    | 65  | 235 |
| 900           | 15  | 19               | 50                          | 55  | 125 | 60    | 65  | 190 | 70    | 75  | 265 |
| 960           | 16  | 20               | 55                          | 55  | 160 | 65    | 65  | 200 | 75    | 75  | 280 |
| 1020          | 17  | 23               | 6                           | 65  | 150 | 75    | 75  | 230 | 85    | 90  | 320 |
| 1080          | 18  | 25               | 70                          | 70  | 160 | 80    | 85  | 250 | 95    | 95  | 350 |
| 1140          | 19  | 27               | 75                          | 75  | 175 | 85    | 90  | 270 | 100   | 105 | 375 |
| 1200          | 20  | 30               | 80                          | 85  | 195 | 95    | 100 | 300 | 110   | 115 | 415 |
| 1260          | 21  | 33               | 90                          | 90  | 215 | 105   | 110 | 330 | 125   | 125 | 460 |
| 1320          | 22  | 36               | 100                         | 100 | 235 | 115   | 120 | 360 | 135   | 135 | 500 |
| 1380          | 23  | 38               | 105                         | 105 | 345 | 125   | 125 | 380 | 140   | 145 | 530 |
| 1440          | 24  | 41               | 110                         | 115 | 365 | 135   | 135 | 410 | 155   | 155 | 570 |
| 1500          | 25  | 44               | 120                         | 120 | 385 | 140   | 145 | 440 | 165   | 165 | 610 |
| 1560          | 26  | 47               | 130                         | 130 | 305 | 150   | 155 | 470 | 175   | 180 | 655 |
| 1620          | 27  | 50               | 135                         | 140 | 325 | 160   | 165 | 500 | 185   | 190 | 700 |
| 1680          | 28  | 53               | 145                         | 145 | 345 | 170   | 175 | 530 | 200   | 200 | 735 |
| 1740          | 29  | 57               | 155                         | 160 | 370 | 185   | 185 | 570 | 215   | 215 | 790 |
| 1800          | 30  | 60               | 165                         | 165 | 390 | 195   | 195 | 600 | 225   | 225 | 835 |

Notes: A - Bladder or Diaphragm Tank Design  
 B - Floating Water Tank Design  
 C - Plain Steel Tank Design

## REFERENCES - REFERENCE TABLES

### EQUIVALENT VALUES OF PRESSURE

| Inches of Mercury | Feet of Water | PSI    |
|-------------------|---------------|--------|
| 1                 | 1.13          | 0.49   |
| 2                 | 2.26          | 0.98   |
| 3                 | 3.39          | 1.47   |
| 4                 | 4.52          | 1.95   |
| 5                 | 5.65          | 2.44   |
| 6                 | 6.78          | 2.93   |
| 7                 | 7.91          | 3.42   |
| 8                 | 9.04          | 3.91   |
| 9                 | 10.17         | 4.4    |
| 10                | 11.3          | 4.89   |
| 11                | 12.45         | 5.39   |
| 12                | 13.57         | 5.87   |
| 13                | 14.7          | 6.37   |
| 14                | 15.82         | 6.86   |
| 15                | 16.96         | 7.35   |
| 16                | 18.09         | 7.84   |
| 17                | 19.22         | 8.33   |
| 18                | 20.35         | 8.82   |
| 19                | 21.75         | 9.31   |
| 20                | 22.6          | 9.8    |
| 21                | 23.78         | 10.3   |
| 22                | 24.88         | 10.8   |
| 23                | 26            | 11.28  |
| 24                | 27.15         | 11.75  |
| 25                | 26.26         | 12.25  |
| 26                | 29.4          | 12.73  |
| 27                | 30.52         | 13.23  |
| 28                | 31.65         | 13.73  |
| 29                | 32.8          | 14.22  |
| 29.929            | 33.947        | 14.697 |

### PROPERTIES OF WATER

| Temp. of Water (°F) | Pressure (ft Water) |
|---------------------|---------------------|
| 60                  | 0.59                |
| 70                  | 0.84                |
| 80                  | 1.17                |
| 90                  | 1.61                |
| 100                 | 2.19                |
| 110                 | 2.94                |
| 120                 | 3.91                |
| 130                 | 5.14                |
| 140                 | 6.67                |
| 150                 | 8.58                |
| 160                 | 10.9                |
| 170                 | 13.8                |
| 180                 | 17.3                |
| 190                 | 21.6                |
| 200                 | 26.6                |
| 210                 | 32.6                |
| 212                 | 34                  |

### ATMOSPHERIC PRESSURE AT VARIOUS ELEVATIONS

| Altitude<br>Feet Above Sea Level | Atmospheric Pressure         |               |                   |
|----------------------------------|------------------------------|---------------|-------------------|
|                                  | Pounds per Square Inch (PSI) | Feet of Water | Inches of Mercury |
| Sea Level                        | 14.7                         | 33.8          | 29.9              |
| 500                              | 14.4                         | 33.3          | 29.4              |
| 1000                             | 14.2                         | 32.6          | 28.8              |
| 2000                             | 13.7                         | 31.4          | 27.8              |
| 3000                             | 13.2                         | 30.3          | 26.8              |
| 4000                             | 12.7                         | 29.2          | 25.8              |
| 5000                             | 12.2                         | 28.2          | 24.9              |
| 6000                             | 11.8                         | 27.1          | 24                |
| 7000                             | 11.3                         | 26.1          | 23.1              |
| 8000                             | 10.9                         | 25.1          | 22.2              |
| 9000                             | 10.5                         | 24.2          | 21.4              |
| 10000                            | 10.1                         | 23.2          | 20.6              |

## REFERENCES - CONVERSIONS

### HEAD

| To Convert From       | To                | Multiply By |
|-----------------------|-------------------|-------------|
| PSI                   | Feet              | 2.31        |
| PSI                   | Inches of Mercury | 2.04        |
| Feet                  | PSI               | 0.433       |
| Feet                  | Meters            | 0.305       |
| Feet                  | Inches of Mercury | 0.885       |
| Inches of Mercury     | Feet of Water     | 1.132       |
| Meters                | Feet              | 3.28        |
| Kilograms per sq. in. | PSI               | 14.22       |
| ATM                   | PSI               | 14.7        |
| ATM                   | Feet of Water     | 34          |
| ATM                   | Meters of Water   | 10.35       |

### VOLUME

| To Convert From | To           | Multiply By |
|-----------------|--------------|-------------|
| Gallons         | Liters       | 3.785       |
| Gallons         | Cubic Inches | 231         |
| Gallons         | Cubic Feet   | 0.137       |
| Gallons         | Cubic Meters | 0.004       |
| Liters          | Gallons      | 0.264       |
| Barrel (Oil)    | Gallons      | 42          |
| Cubic Feet      | Gallons      | 7.48        |
| Cubic Feet      | Cubic Meters | 0.028       |
| Acre Foot       | Cubic Feet   | 43560       |
| Acre Foot       | Gallons      | 325829      |
| Acre Inch       | Cubic Feet   | 3630        |
| Acre Inch       | Gallons      | 27100       |

### CAPACITY

| To Convert From                         | To                 | Multiply By |
|---|--------------------|-------------|
| Gallons Per Minute                      | Liters/Sec.        | 0.063       |
| Gallons Per Minute                      | Liters/Hr.         | 227.1       |
| Gallons Per Minute                      | Cubic Meters/Hr.   | 0.227       |
| Gallons Per Minute                      | Cubic Feet/Sec.    | 0.002       |
| Gallons Per Minute                      | Pounds Per Hour    | 500         |
| Cubic Meters/Hr.                        | Gallons Per Minute | 4.402       |
| Cubic Meters/Hr.                        | Liters/Sec.        | 0.278       |
| Cubic Feet/Sec.                         | Gallons Per Minute | 448.831     |
| Acre Foot                               | Gallons            | 325.85      |
| Acre Foot per Day                       | Gallons Per Minute | 227         |
| Acre Inch per Hour                      | Gallons Per Minute | 454         |
| Litre per Second                        | Gallons Per Minute | 15.85       |
| Miner's Inch (ID,KS,NE, NM,ND,SD,UT,WA) | Gallons Per Minute | 9           |
| Miner's Inch (AZ,CA,MT,NV,OR)           | Gallons Per Minute | 11.22       |

### HORSEPOWER

| To Convert From | To                  | Multiply By |
|-----------------|---------------------|-------------|
| Hp              | Kilowatts           | 0.746       |
| Hp              | Ft. lbs. per minute | 33000       |
| Hp              | Ft. lbs. per second | 550         |
| Kilowatts       | H.P.                | 1.341       |

### LENGTH

| To Convert From | To          | Multiply By |
|-----------------|-------------|-------------|
| Inches          | Centimeters | 2.54        |
| Meters          | Feet        | 3.28        |
| Miles           | Feet        | 5280        |
| Rods            | Feet        | 16.5        |

### WEIGHT

| To Convert From     | To     | Multiply By |
|---------------------|--------|-------------|
| Gallons             | Pounds | 8.33        |
| Cubic Feet of Water | Pounds | 62.35       |
| Kilograms           | Pounds | 2.2         |

### TEMPERATURE

| To Convert From | To         | Multiply By            |
|-----------------|------------|------------------------|
| Fahrenheit      | Celsius    | $5/9 \times (°F - 32)$ |
| Celsius         | Fahrenheit | $9/5 \times (°C + 32)$ |

1,000,000 US gal. / day = 695 US gal. / minute

## REFERENCES - 2- OR 3-WIRE CABLE, 60 HZ

### SERVICE ENTRANCE TO MOTOR - MAXIMUM LENGTH IN FEET

| MOTOR RATING |     |     | 60 °C INSULATION - AWG COPPER WIRE SIZE |     |     |      |      |      |      |      |      |      |      |      |      |
|--------------|-----|-----|---|-----|-----|------|------|------|------|------|------|------|------|------|------|
| VOLTS        | HP  | KW  | 14                                      | 12  | 10  | 8    | 6    | 4    | 3    | 2    | 1    | 0    | 00   | 000  | 0000 |
| 115          | 1/2 | .37 | 100                                     | 160 | 250 | 390  | 620  | 960  | 1190 | 1460 | 1780 | 2160 | 2630 | 3140 | 3770 |
|              | 3/4 | .55 | 300                                     | 480 | 760 | 1200 | 1870 | 2890 | 3580 | 4370 | 5330 | 6470 | 7870 |      |      |
| 230          | 1   | .75 | 250                                     | 400 | 630 | 990  | 1540 | 2380 | 2960 | 3610 | 4410 | 5360 | 6520 |      |      |
|              | 1.5 | 1.1 | 190                                     | 310 | 480 | 770  | 1200 | 1870 | 2320 | 2850 | 3500 | 4280 | 5240 |      |      |
|              | 2   | 1.5 | 150                                     | 250 | 390 | 620  | 970  | 1530 | 1910 | 2360 | 2930 | 3620 | 4480 |      |      |
|              | 3   | 2.2 | 120                                     | 190 | 300 | 470  | 750  | 1190 | 1490 | 1850 | 2320 | 2890 | 3610 |      |      |
|              | 5   | 3.7 | 0                                       | 0   | 180 | 280  | 450  | 710  | 890  | 1110 | 1390 | 1740 | 2170 | 2680 |      |
|              | 7.5 | 5.5 | 0                                       | 0   | 0   | 200  | 310  | 490  | 610  | 750  | 930  | 1140 | 1410 | 1720 |      |
|              | 10  | 7.5 | 0                                       | 0   | 0   | 0    | 250  | 390  | 490  | 600  | 750  | 930  | 1160 | 1430 | 1760 |
|              | 15  | 11  | 0                                       | 0   | 0   | 0    | 170  | 270  | 340  | 430  | 530  | 660  | 820  | 1020 | 1260 |

| MOTOR RATING |     |     | 75 °C INSULATION - AWG COPPER WIRE SIZE |     |     |      |      |      |      |      |      |      |      |      |      |
|--------------|-----|-----|---|-----|-----|------|------|------|------|------|------|------|------|------|------|
| VOLTS        | HP  | KW  | 14                                      | 12  | 10  | 8    | 6    | 4    | 3    | 2    | 1    | 0    | 00   | 000  | 0000 |
| 115          | 1/2 | .37 | 100                                     | 160 | 250 | 390  | 620  | 960  | 1190 | 1460 | 1780 | 2160 | 2630 | 3140 | 3770 |
|              | 3/4 | .55 | 300                                     | 480 | 760 | 1200 | 1870 | 2890 | 3580 | 4370 | 5330 | 6470 | 7870 | 9380 |      |
| 230          | 1   | .75 | 250                                     | 400 | 630 | 990  | 1540 | 2380 | 2960 | 3610 | 4410 | 5360 | 6520 | 7780 | 9350 |
|              | 1.5 | 1.1 | 190                                     | 310 | 480 | 770  | 1200 | 1870 | 2320 | 2850 | 3500 | 4280 | 5240 | 6300 | 7620 |
|              | 2   | 1.5 | 150                                     | 250 | 390 | 620  | 970  | 1530 | 1910 | 2360 | 2930 | 3620 | 4480 | 5470 | 6700 |
|              | 3   | 2.2 | 120                                     | 190 | 300 | 470  | 750  | 1190 | 1490 | 1850 | 2320 | 2890 | 3610 | 4470 | 5550 |
|              | 5   | 3.7 | 0                                       | 110 | 180 | 280  | 450  | 710  | 890  | 1110 | 1390 | 1740 | 2170 | 2680 | 3330 |
|              | 7.5 | 5.5 | 0                                       | 0   | 120 | 200  | 310  | 490  | 610  | 750  | 930  | 1140 | 1410 | 1720 | 2100 |
|              | 10  | 7.5 | 0                                       | 0   | 0   | 160  | 250  | 390  | 490  | 600  | 750  | 930  | 1160 | 1430 | 1760 |
|              | 15  | 11  | 0                                       | 0   | 0   | 0    | 170  | 270  | 340  | 430  | 530  | 660  | 820  | 1020 | 1260 |

1 Foot = .3048 Meter

Lengths in **BOLD** only meet the US National Electrical Code ampacity requirements for individual conductors 60 °C or 75 °C in free air or water, not in magnetic enclosures, conduit or direct buried. Lengths NOT in bold meet the NEC ampacity requirements for either individual conductors or jacketed 60 °C or 75 °C cable and can be in conduit or direct buried. Flat molded and web/ribbon cable are considered jacketed cable. If any other cable is used, the NEC and local codes should be observed.

Cable lengths allow for a 5% voltage drop running at maximum nameplate amperes. If 3% voltage drop is desired, multiply lengths by 0.6 to get maximum cable length. The portion of the total cable length, which is between the supply and single-phase control box with a line contactor, should not exceed 25% of total maximum allowable to ensure reliable contactor operation. Single-phase control boxes without line contactors may be connected at any point in the total cable length.

Values are based on copper wire. If aluminum wire is used, it must be two sizes larger than copper wire and oxidation inhibitors must be used on connections. **EXAMPLE:** #12 copper wire = #10 aluminum wire. Contact Franklin Electric for 90 °C cable lengths.



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  2. Physical damage as evidenced by bent shaft, broken or chipped castings, or broken or bent thrust parts.
  3. Sand damage as indicated by abrasive wear of motor seals or splines.
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  5. Electrical failures due to the use of non-approved overload protection.
  6. Unauthorized disassembly.

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