



**FLINT & WALLING**

Zoeller Family of Water Solutions™

FW0171

0112

Supersedes

0308

# Four-Inch Submersible Pumps

## 1/2 thru 7 1/2 HP 5 to 85 GPM

### Series "4F"

Low, medium and high capacity submersible pumps for home, farm, industry and dozens of other domestic and commercial applications

- Stainless Steel or Cast Iron Suction and Discharge Housings
- Stainless Steel Pump Shell
- Stainless Steel Hex Drive, Pump Shaft and Coupling
- Stainless Steel Screen
- Corrosion Resistant Cable Guard
- NEMA Standard Motor Mounting Ring
- Field Replaceable Cartridge Assembly, Lead Guard, Motor and Motor Lead Wire Assembly
- Stainless Steel, NEMA Franklin Motors





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Zoeller Family of Water Solutions™

# 1/2 - 5 HP • 5, 7, 10, 15, 19 and 27 GPM



## MATERIAL CONSTRUCTION

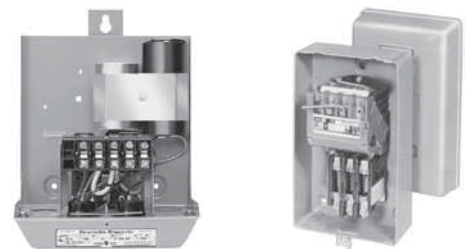
| Component Description | Commander®<br>"S" Series<br>5, 7, 10, 15, 19 & 27 GPM<br>1/2 thru 5 HP  | Captain®<br>"A" Series<br>5, 7, 10, 19 & 27 GPM<br>1/2 thru 5 HP   |
|-----------------------|---|--|
| Discharge Head        | Stainless Steel, 1-1/4" NPT, safety rope eyelet included  | Cast Iron, 1-1/4" NPT, safety rope eyelet included   |
| Check Valve Poppet    | Internal removable, with elastomer sealing ring   |  |
| Top Bearing           | Closed sintered lead free sleeve bearing  |  |
| Pump Shell            | Heavy wall stainless steel  | Heavy wall stainless steel   |
| Cable Guard           | Stainless steel   | Stainless steel or Crush-proof PVC   |
| Staging*              | Noryl® impellers and diffusers; type stainless steel floating bearing inserts and acetal diffuser plates  | Noryl® impellers and diffusers; type stainless steel floating bearing inserts and acetal diffuser plates |
| Pump Shaft*           | Stainless steel hex shaft with one piece motor-to-shaft coupling  | Stainless steel hex shaft with one piece motor-to-shaft coupling   |
| Motor Bracket         | NEMA standard, stainless steel with stainless steel suction screen  | NEMA standard, cast iron with stainless steel suction screen   |
| Motor                 | All pumps driven by a complete selection of Franklin Electric stainless steel two wire or three wire water lubricated motors.   |  |
| Motor Controls        | Franklin Electric control boxes required for three-wire single phase motors. Magnetic starters and heaters are required for three phase models. Purchase at your local electrical outlet. |  |

\* Replacement cartridge assembly available for all models. Includes all necessary parts to restore pumps to like-new performance. No special tools required. Noryl® is a registered trademark of General Electric.



## MATERIAL CONSTRUCTION

| Component Description | Commander® Plus<br>"S" Series<br>35, 55 & 85 GPM<br>1 thru 7-1/2 HP   | Captain® Plus<br>"A" Series<br>35, 55 & 85 GPM<br>1 thru 7-1/2 HP                                   |
|-----------------------|---|---|
| Discharge Head        | Stainless Steel, 2" NPT, safety rope eyelets included   | Cast Iron, 2" NPT   |
| Check Valve Poppet    | Check valve not included  | Check valve not included  |
| Top Bearing           | Closed sintered lead free sleeve bearing  | Closed sintered lead free sleeve bearing  |
| Pump Shell            | Heavy wall stainless steel  | Heavy wall stainless steel  |
| Cable Guard           | Stainless steel   | Stainless steel or Crush-proof PVC  |
| Staging*              | Noryl® impellers and diffusers; stainless steel floating bearing inserts and acetal diffuser plates   | Noryl® impellers and diffusers; stainless steel floating bearing inserts and acetal diffuser plates |
| Pump Shaft*           | Stainless steel hex shaft with one piece motor-to-shaft coupling  | Stainless steel hex shaft with one piece motor-to-shaft coupling                                    |
| Motor Bracket         | NEMA standard, stainless steel with stainless steel suction screen  | NEMA standard, cast iron with stainless steel suction screen  |
| Motor                 | All pumps are driven by a complete selection of Franklin Electric stainless steel two wire or three wire water lubricated motors. Order motors separately.                                |   |
| Motor Controls        | Franklin Electric control boxes required for three-wire single phase motors. Magnetic starters and heaters are required for three phase models. Purchase at your local electrical outlet. |   |



\* Replacement cartridge assembly available for all models. Includes all necessary parts to restore pumps to like-new performance. No special tools required. Noryl® is a registered trademark of General Electric.



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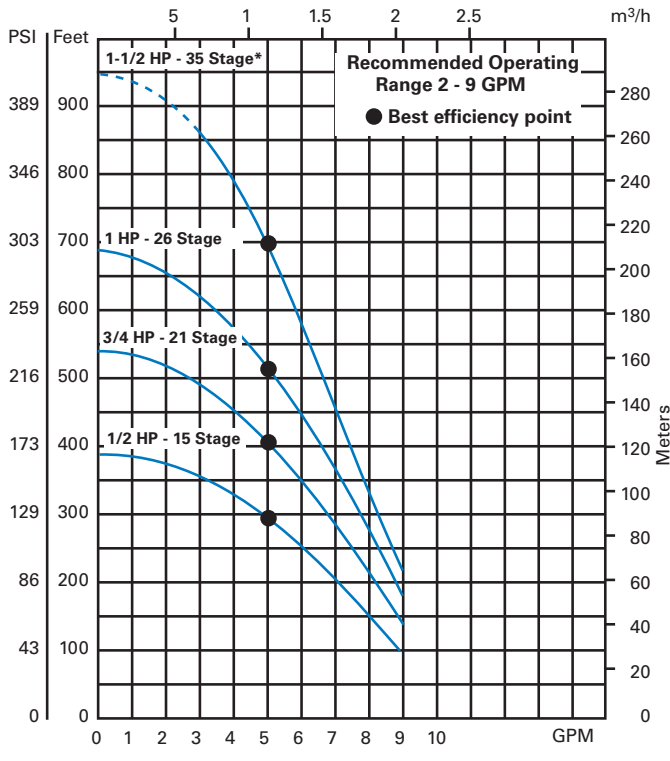
Zoeller Family of Water Solutions™

# 4" 5 GPM • 1/2 thru 1 1/2 HP • 3450 RPM • 60 Cycle

| HP Size and Model No.                   | Stages | Weight         |          | Disch. Pressure PSI | DEPTH TO WATER LEVEL IN FEET - CAPACITIES IN GALLONS PER MINUTE |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Maximum Pressure |     |     |     |     |     |     |     |     |
|---|--------|----------------|----------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|   |        | Motor Type     | Ship Wt. |                     | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 400 | 450 | 500 | 550 | 600              | 650 | 700 | 800 | Ft. | PSI |     |     |     |
| 1/2 HP<br>4F05A05<br>4F05S05<br>4F05G05 | 15     | 1 PH<br>3 Wire | 29       | 0                   |   |     |     |     | 8.9 | 8.5 | 8.2 | 7.8 | 7.4 | 7.0 | 6.5 | 5.9 | 5.3 | 4.7 | 4.0 | 3.2 |     |     |     |     |                  |     |     |     |     |     |     | 390 | 168 |
|   |        |                | 29       | 20                  |   |     |     |     | 8.1 | 7.7 | 7.3 | 6.9 | 6.5 | 6.0 | 5.5 | 4.8 | 4.1 | 3.3 | 2.3 |     |     |     |     |     |                  |     |     |     |     |     |     |     |     |
|   |        | 1 PH<br>2 Wire | 29       | 40                  | 8.3   | 7.9 | 7.5 | 7.1 | 6.7 | 6.3 | 5.9 | 5.4 | 4.9 | 4.2 | 3.6 | 2.7 |     |     |     |     |     |     |     |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 29       | 60                  | 8.3   | 7.9 | 7.5 | 7.1 | 6.7 | 6.3 | 5.9 | 5.4 | 4.9 | 4.2 | 3.6 | 2.7 |     |     |     |     |     |     |     |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 29       | 80                  | 8.3   | 7.9 | 7.5 | 7.1 | 6.7 | 6.3 | 5.9 | 5.4 | 4.9 | 4.2 | 3.6 | 2.7 |     |     |     |     |     |     |     |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 29       | 80                  | 8.3   | 7.9 | 7.5 | 7.1 | 6.7 | 6.3 | 5.9 | 5.4 | 4.9 | 4.2 | 3.6 | 2.7 |     |     |     |     |     |     |     |     |                  |     |     |     |     |     |     |     |     |
| 3/4 HP<br>4F05A07<br>4F05S07            | 21     | 1 PH<br>3 Wire | 35       | 0                   |   |     |     |     | 8.9 | 8.7 | 8.4 | 8.2 | 8.2 | 7.8 | 7.5 | 7.2 | 6.9 | 6.5 | 6.1 | 5.7 | 5.3 | 4.9 | 4.4 | 3.1 |                  |     |     |     |     |     | 550 | 238 |     |
|   |        |                | 35       | 20                  |   |     |     |     | 8.6 | 8.3 | 8.1 | 7.8 | 7.5 | 7.2 | 6.9 | 6.5 | 6.2 | 5.7 | 5.3 | 4.9 | 4.4 | 3.1 |     |     |                  |     |     |     |     |     |     |     |     |
|   |        | 1 PH<br>2 Wire | 35       | 40                  |   |     |     | 8.8 | 8.6 | 8.3 | 8.1 | 7.7 | 7.5 | 7.2 | 6.9 | 6.5 | 6.2 | 5.8 | 5.4 | 4.9 | 4.5 | 4.1 | 3.3 | 2.6 | 1.5              |     |     |     |     |     |     |     |     |
|   |        |                | 35       | 60                  |   |     |     | 8.2 | 7.9 | 7.7 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 5.8 | 5.4 | 4.9 | 4.5 | 4.1 | 3.3 | 2.6 | 1.5 |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 35       | 80                  |   |     |     | 8.2 | 7.9 | 7.7 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 5.8 | 5.4 | 4.9 | 4.5 | 4.1 | 3.3 | 2.6 | 1.5 |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 35       | 80                  |   |     |     | 8.2 | 7.9 | 7.7 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 5.8 | 5.4 | 4.9 | 4.5 | 4.1 | 3.3 | 2.6 | 1.5 |     |                  |     |     |     |     |     |     |     |     |
| 1 HP<br>4F05A10<br>4F05S10              | 26     | 1 PH 3<br>Wire | 43       | 0                   |   |     |     |     |     | 9.0 | 8.8 | 8.6 | 8.4 | 8.2 | 8.4 | 8.2 | 7.9 | 7.7 | 7.4 | 7.2 | 6.9 | 6.6 | 6.0 | 5.4 | 4.6              | 3.7 | 2.5 |     |     | 695 | 300 |     |     |
|   |        |                | 43       | 20                  |   |     |     |     | 8.7 | 8.5 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | 4.7 | 3.8 | 2.7              |     |     |     |     |     |     |     |     |
|   |        | 1 PH 2<br>Wire | 43       | 40                  |   |     |     | 8.5 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 6.5 | 6.1 | 5.8 | 5.5 | 4.7 | 3.8 | 2.7 |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 43       | 60                  |   |     |     | 8.5 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 6.5 | 6.1 | 5.8 | 5.5 | 4.7 | 3.8 | 2.7 |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 43       | 80                  |   |     |     | 8.5 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 6.5 | 6.1 | 5.8 | 5.5 | 4.7 | 3.8 | 2.7 |     |                  |     |     |     |     |     |     |     |     |
|   |        |                | 43       | 80                  |   |     |     | 8.5 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 6.5 | 6.1 | 5.8 | 5.5 | 4.7 | 3.8 | 2.7 |     |                  |     |     |     |     |     |     |     |     |
| 1-1/2 HP<br>4F05A15<br>4F05S15          | 35     | 1 PH 3<br>Wire | 55       | 0                   |   |     |     |     |     |     |     |     |     |     |     | 8.9 | 8.7 | 8.5 | 8.3 | 8.2 | 8.0 | 7.6 | 7.2 | 6.8 | 6.3              | 5.9 | 5.5 | 5.0 | 4.6 | 4.0 | 950 | 411 |     |
|   |        |                | 55       | 20                  |   |     |     |     | 9.0 | 8.8 | 8.7 | 8.5 | 8.4 | 8.2 | 8.0 | 7.9 | 7.7 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.0 | 5.6              | 5.1 | 4.7 | 4.1 | 3.5 | 3.4 |     |     |     |
|   |        | 1 PH 2<br>Wire | 55       | 40                  |   |     |     |     |     | 8.8 | 8.6 | 8.5 | 8.4 | 8.2 | 8.0 | 7.9 | 7.7 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.0 | 5.6              | 5.1 | 4.7 | 4.1 | 3.5 | 3.4 |     |     |     |
|   |        |                | 55       | 60                  |   |     |     |     |     | 8.8 | 8.6 | 8.5 | 8.4 | 8.2 | 8.0 | 7.9 | 7.7 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.0 | 5.6              | 5.1 | 4.7 | 4.1 | 3.5 | 3.4 |     |     |     |
|   |        |                | 55       | 80                  |   |     |     |     |     | 8.8 | 8.6 | 8.5 | 8.4 | 8.2 | 8.0 | 7.9 | 7.7 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.0 | 5.6              | 5.1 | 4.7 | 4.1 | 3.5 | 3.4 |     |     |     |
|   |        |                | 55       | 80                  |   |     |     |     |     | 8.8 | 8.6 | 8.5 | 8.4 | 8.2 | 8.0 | 7.9 | 7.7 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.0 | 5.6              | 5.1 | 4.7 | 4.1 | 3.5 | 3.4 |     |     |     |

NOTE: Pipe friction loss in drop pipe is not included in chart above.

## 5 GPM • 1/2-1 1/2 HP



Stainless Steel  
1 1/4" NPT      Cast Iron  
1 1/4" NPT



\* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted line.

# 4" 7 GPM • 1/2 thru 2 HP • 3450 RPM • 60 Cycle

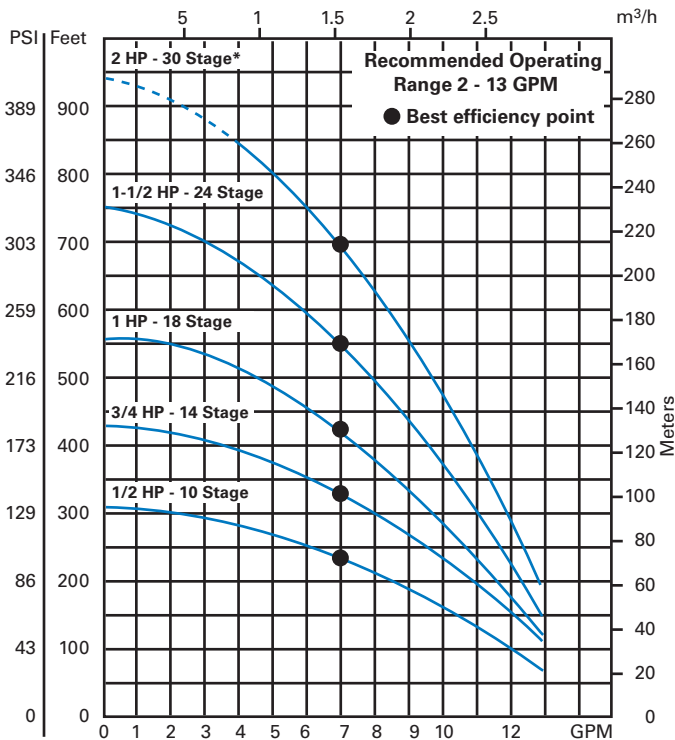


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| HP Size and Model No.                   | Stages | Weight         |          | Disch. Press. PSI | DEPTH TO WATER LEVEL IN FEET - CAPACITIES IN GALLONS PER MINUTE |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Maximum Pressure |  |
|---|--------|----------------|----------|-------------------|---|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|--|
|   |        | Motor Type     | Ship Wt. |                   | 20  | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 225  | 250 | 275 | 300 | 325 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 800 | Ft. | PSI |     |     |                  |  |
|   |        |                |          |                   |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |
| 1/2 HP<br>4F07A05<br>4F07S05<br>4F07G05 | 10     | 1 PH<br>3 Wire | 28       | 0                 |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 310 | 134 |                  |  |
|   |        |                |          | 20                | 12.9  | 12.2 | 13.0 | 12.4 | 11.7 | 11.0 | 10.4 | 9.8  | 9.0  | 8.2  | 7.2  | 5.8 | 4.2 | 2.1 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |
| 3/4 HP<br>4F07A07<br>4F07S07<br>4F07G07 | 14     | 1 PH<br>3 Wire | 33       | 0                 |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 430 | 186 |                  |  |
|   |        |                |          | 20                |   |      | 12.7 | 12.4 | 11.9 | 11.5 | 11.0 | 10.5 | 10.0 | 9.4  | 8.7  | 7.9 | 7.1 | 6.2 | 5.2 | 3.7 |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |
| 1 HP<br>4F07A10<br>4F07S10<br>4F07G10   | 18     | 1 PH<br>3 Wire | 37       | 0                 |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 560 | 242 |                  |  |
|   |        |                |          | 20                |   |      | 12.0 | 12.7 | 12.3 | 12.0 | 11.7 | 11.3 | 10.9 | 10.6 | 10.1 | 9.7 | 9.2 | 8.7 | 8.1 | 7.6 | 7.0 | 6.3 | 4.7 | 2.1 |     |     |     |     |     |     |     |     |                  |  |
| 1-1/2 HP<br>4F07A15<br>4F07S15          | 24     | 1 PH<br>3 Wire | 51       | 0                 |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 745 | 322 |                  |  |
|   |        |                |          | 20                |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |
|   |        |                |          | 40                | 12.2  | 11.8 | 11.3 | 10.9 | 10.3 | 9.6  | 9.1  | 8.5  | 7.9  | 7.2  | 6.5  | 5.5 | 4.2 | 2.3 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |
| 2 HP<br>4F07A20<br>4F07S20              | 30     | 1 PH<br>3 Wire | 61       | 0                 |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 945 | 409 |                  |  |
|   |        |                |          | 20                |   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |  |

NOTE: Pipe friction loss in drop pipe is not included in chart above.

## 7 GPM • 1/2-2 HP



Stainless Steel  
1 1/4" NPT



3 7/8"

Cast Iron  
1 1/4" NPT



3 7/8"

\* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted lines.



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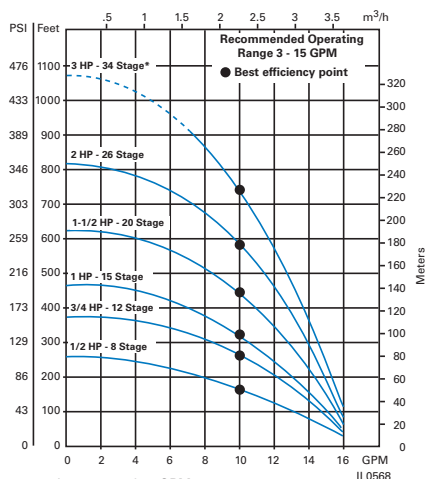
Zoeller Family of Water Solutions™

4" 10 & 15 GPM • 1/2 thru 3 HP • 3450 RPM • 60 Cycle

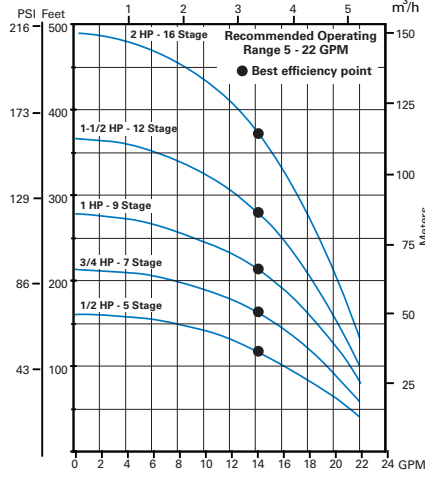
Table with columns for HP Size and Model No., Stage, Weight (Motor Type, Ship Wt.), Discharge Pressure (PSI), and Depth to Water Level in Feet (Capacities in Gallons per Minute). The table is organized into sections for 10 GPM and 15 GPM flow rates.

NOTE: Pipe friction loss in drop pipe is not included in chart above.

10 GPM • 1/2-3 HP



15 GPM • 1/2-1 HP



\* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted lines.

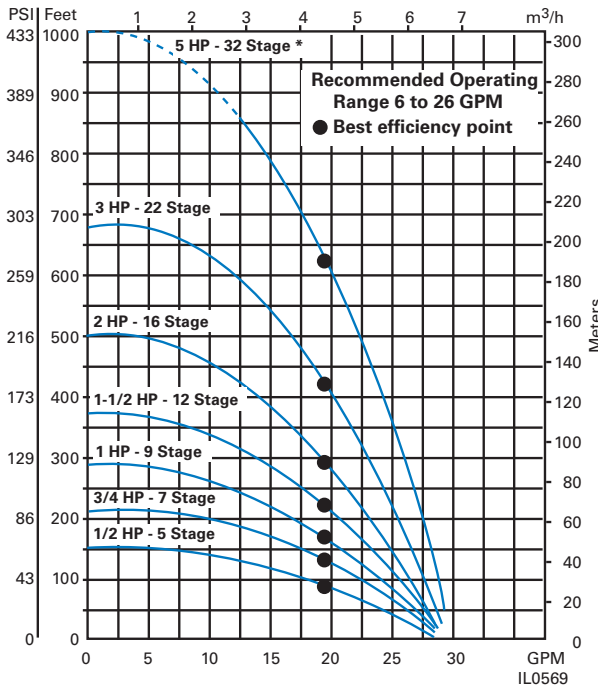
# 4" 19 GPM • 1/2 thru 5 HP • 3450 RPM • 60 Cycle



| HP Size and Model No.                     | Stg. | Weight         |          | Disch. Press. PSI | DEPTH TO WATER LEVEL IN FEET - CAPACITIES IN GALLONS PER MINUTE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Maximum Pressure |      |      |      |     |
|---|------|----------------|----------|-------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|------|------|------|-----|
|   |      | Motor Type     | Ship Wt. |                   | 20  | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 225  | 250  | 275  | 300  | 325  | 350  | 400  | 450  | 500  | 550  | 600              | 650  | 700  | 800  | Ft. |
| 1/2 HP<br>4F19A05<br>4F19S05              | 5    | 1 PH<br>3 Wire | 28       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 155  | 67  |
|   |      | 1 PH<br>2 Wire | 28       | 20                | 24.6  | 22.7 | 20.5 | 17.9 | 15.0 | 10.4 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      |      |     |
| 3/4 HP<br>4F19A07<br>4F19S07              | 7    | 1 PH<br>3 Wire | 33       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 215  | 93  |
|   |      | 1 PH<br>2 Wire | 33       | 20                | 24.4  | 22.9 | 21.4 | 19.5 | 17.5 | 15.3 | 12.4 | 16.0 | 13.3 | 9.6  |      |      |      |      |      |      |      |      |      |      |                  |      |      |      |     |
| 1 HP<br>4F19A10<br>4F19S10<br>4F19G10     | 9    | 1 PH<br>3 Wire | 36       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 283  | 122 |
|   |      | 1 PH<br>2 Wire | 36       | 20                | 25.2  | 24.0 | 25.5 | 24.4 | 23.2 | 22.1 | 20.7 | 19.4 | 17.8 | 16.2 | 13.7 | 10.7 | 5.0  |      |      |      |      |      |      |      |                  |      |      |      |     |
| 1-1/2 HP<br>4F19A15<br>4F19S15<br>4F19G15 | 12   | 1 PH<br>3 Wire | 43       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 375  | 163 |
|   |      | 1 PH<br>2 Wire | 43       | 20                | 25.2  | 24.4 | 25.5 | 24.4 | 23.5 | 22.7 | 21.7 | 20.7 | 19.9 | 18.9 | 17.7 | 16.3 | 14.3 | 12.2 | 9.5  | 3.6  | 8.7  |      |      |      |                  |      |      |      |     |
|   |      | 3 PH<br>3 Wire | 39       | 40                | 24.2  | 23.3 | 22.4 | 21.4 | 20.5 | 19.5 | 18.5 | 17.4 | 16.3 | 14.9 | 12.7 | 10.4 | 6.3  |      |      |      |      |      |      |      |                  |      |      |      |     |
| 2 HP<br>4F19A20<br>4F19S20                | 16   | 1 PH<br>3 Wire | 59       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 500  | 217 |
|   |      | 3 PH<br>3 Wire | 49       | 20                | 25.3  | 24.6 | 25.5 | 24.9 | 24.3 | 23.7 | 23.0 | 22.4 | 21.8 | 21.0 | 20.2 | 19.2 | 18.2 | 17.0 | 15.9 | 14.4 | 10.8 | 5.3  |      |      |                  |      |      |      |     |
| 3 HP<br>4F19A30<br>4F19S30                | 22   | 1 PH<br>3 Wire | 75       | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 685  | 298 |
|   |      | 3 PH<br>3 Wire | 75       | 20                | 25.8  | 25.4 | 26.0 | 25.6 | 25.2 | 24.7 | 24.3 | 23.8 | 23.3 | 22.8 | 22.2 | 21.5 | 20.3 | 19.8 | 19.0 | 18.2 | 16.6 | 14.7 | 12.2 | 9.2  |                  |      |      |      |     |
| 5 HP<br>4F19A50<br>4F19S50                | 32   | 1 PH<br>3 Wire | 117      | 0                 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |      | 1000 | 435 |
|   |      | 3 PH<br>3 Wire | 80       | 20                | 26.0  | 25.8 | 25.5 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.7 | 23.2 | 22.8 | 22.4 | 21.9 | 21.2 | 20.3 | 19.3 | 18.3 | 17.2 | 15.9             | 14.5 | 12.8 |      |     |

NOTE: Pipe friction loss in drop pipe is not included in chart above.

## 19 GPM • 1/2-5 HP



Stainless Steel  
1 1/4" NPT



← 3 7/8" →

Cast Iron  
1 1/4" NPT



← 3 7/8" →

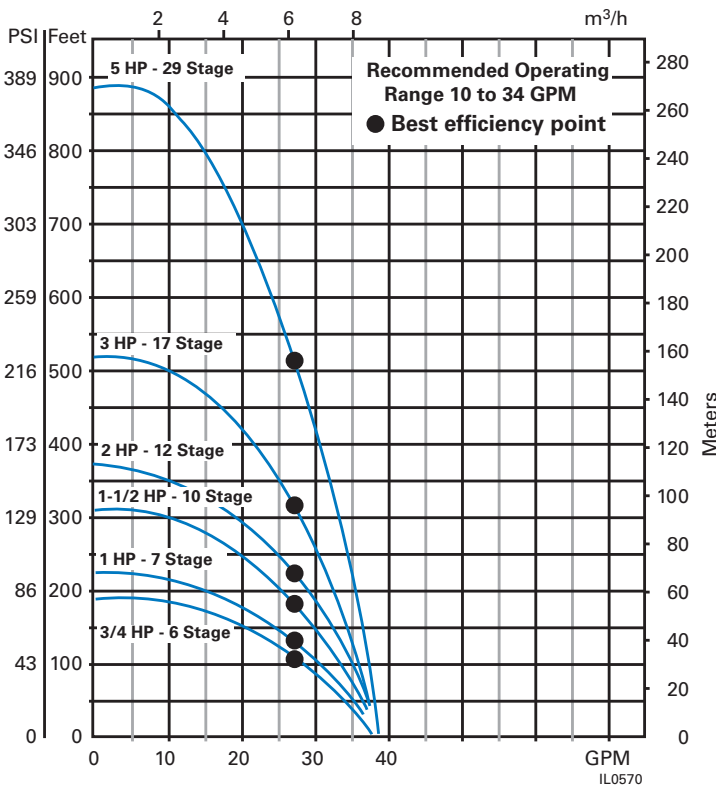
\* Pumps marked with asterisks not to be operated at GPM flows indicated by the dotted line.

# 4" 27 GPM • 3/4 thru 5 HP • 3450 RPM • 60 Cycle

| HP Size And Model No.                     | Stages | WEIGHT         |             | Disch. Press. PSI | DEPTH TO WATER LEVEL IN FEET - CAPACITIES IN GALLONS PER MINUTE |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Maximum Pressure |     |     |     |     |
|---|--------|----------------|-------------|-------------------|---|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|
|   |        | Motor Type     | Shp. Weight |                   | 20  | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700              | 750 | 800 | Ft. | PSI |
|   |        |                |             |                   | 0   | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0                | 0   | 0   | 0   | 0   |
| 3/4 HP<br>4F27A07<br>4F27S07              | 6      | 1 PH<br>3 Wire | 33          | 0                 | 32  | 29 | 26 | 23 | 20  | 17  | 15  | 13  | 11  | 10  | 9   |     |     |     |     |     |     |     |     |     |     |     |                  | 180 | 78  |     |     |
|   |        | 1 PH<br>2 Wire | 33          | 0                 | 32  | 25 | 22 | 18 | 15  | 12  | 10  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
| 1 HP<br>4F27A10<br>4F27S10<br>4F27G10     | 7      | 1 PH<br>3 Wire | 35          | 0                 | 33  | 31 | 29 | 26 | 24  | 20  | 17  | 15  | 13  | 11  | 10  |     |     |     |     |     |     |     |     |     |     |     |                  | 215 | 93  |     |     |
|   |        | 1 PH<br>2 Wire | 35          | 0                 | 33  | 28 | 25 | 23 | 19  | 15  | 12  | 10  | 9   |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
|   |        | 3 PH<br>3 Wire | 38          | 0                 | 31  | 30 | 28 | 27 | 25  | 23  | 21  | 19  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
| 1-1/2 HP<br>4F27A15<br>4F27S15<br>4F27G15 | 10     | 1 PH<br>3 Wire | 43          | 0                 | 33  | 32 | 30 | 29 | 27  | 25  | 23  | 21  | 19  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |                  | 305 | 132 |     |     |
|   |        | 1 PH<br>2 Wire | 43          | 0                 | 31  | 30 | 28 | 27 | 25  | 23  | 21  | 19  | 18  |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
|   |        | 3 PH<br>3 Wire | 38          | 0                 | 28  | 26 | 24 | 22 | 20  | 18  | 15  | 13  | 11  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
| 2 HP<br>4F27A20<br>4F27S20                | 12     | 1 PH<br>3 Wire | 44          | 0                 | 34  | 33 | 32 | 30 | 29  | 27  | 26  | 24  | 22  | 21  | 19  | 18  |     |     |     |     |     |     |     |     |     |     |                  | 360 | 156 |     |     |
|   |        | 3 PH<br>3 Wire | 46          | 0                 | 31  | 30 | 29 | 27 | 25  | 23  | 21  | 19  | 17  | 15  | 14  | 13  |     |     |     |     |     |     |     |     |     |     |                  |     |     |     |     |
|   |        | 3 PH<br>3 Wire | 46          | 0                 | 28  | 26 | 25 | 23 | 21  | 19  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10  |     |     |     |     |     |     |     |     |                  |     |     |     |     |
| 3 HP*<br>4F27A30<br>4F27S30               | 17     | 1 PH<br>3 Wire | 73          | 0                 | 34  | 33 | 32 | 30 | 29  | 27  | 26  | 24  | 22  | 21  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 12  | 11  | 10  | 9   |     |                  | 515 | 223 |     |     |
|   |        | 3 PH<br>3 Wire | 73          | 0                 | 30  | 29 | 27 | 25 | 23  | 21  | 19  | 18  | 17  | 15  | 14  | 13  | 12  | 11  | 10  | 9   |     |     |     |     |     |     |                  |     |     |     |     |
|   |        | 3 PH<br>3 Wire | 73          | 0                 | 28  | 26 | 25 | 23 | 21  | 19  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10  | 9   |     |     |     |     |     |     |     |                  |     |     |     |     |
| 5 HP*<br>4F27A50<br>4F27S50               | 29     | 1 PH<br>3 Wire | 116         | 0                 | 34  | 33 | 33 | 32 | 31  | 30  | 29  | 28  | 27  | 26  | 25  | 24  | 23  | 22  | 21  | 20  | 19  | 18  | 17  | 16  | 15  | 14  | 13               | 12  | 11  | 10  |     |
|   |        | 3 PH<br>3 Wire | 80          | 0                 | 30  | 29 | 27 | 26 | 24  | 22  | 21  | 19  | 18  | 17  | 16  | 15  | 14  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4                | 3   | 2   | 1   |     |
|   |        | 3 PH<br>3 Wire | 80          | 0                 | 28  | 26 | 25 | 23 | 21  | 19  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   | 3   | 2   | 1                |     |     |     |     |

NOTE: Pipe friction loss in drop pipe is not included in chart above.  
 \*For 3 HP and above, refer to Franklin handbook for proper flow rates to cool motor.

## 27 GPM • 3/4-5 HP



Stainless Steel  
1 1/4" NPT



← 3 7/8" →

Cast Iron  
1 1/4" NPT



← 3 7/8" →









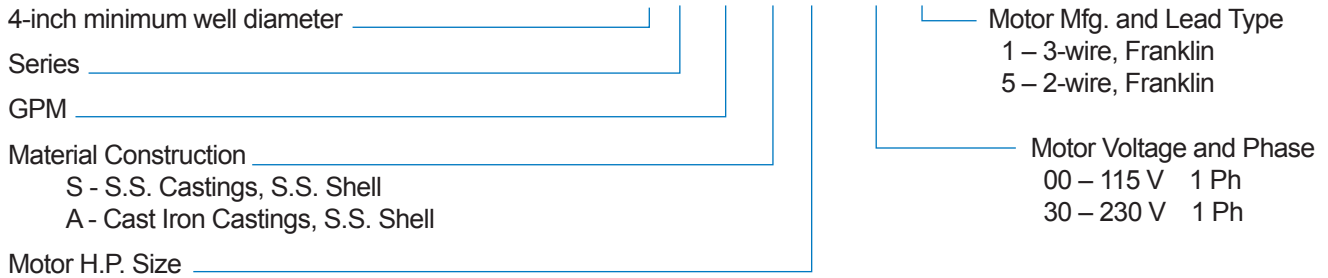


**FLINT & WALLING**

*Zoeller Family of Water Solutions™*

Model No. Code                      5 thru 27 GPM

4 F 10 A 05 - 30 1

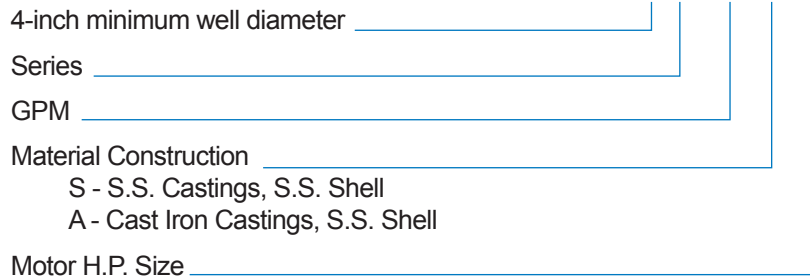


1/2 - 1-1/2 HP Single phase pump and motor assembly includes pump/motor unit with motor leads.  
Order control box for 3-wire units separately.

On 2 - 7-1/2 HP and all 3 phase units, order pump, motor and control box separately. Magnetic starters must be purchased locally. Lead wire assembly included with motor.

Model No. Code                      35, 55 & 85 GPM

4 F 35 A 20



On 35, 55 & 85 GPM units order pump, motor and control box separately. Magnetic starters must be purchased locally. Lead wire assembly included with motor.

**4" FRANKLIN SUBMERSIBLE MOTORS & CONTROL BOXES**

| HP Rating | Voltage & Phase | Motor Type | Motor Thrust Rating | Motor Order Number | Control Box Order Number |
|-----------|-----------------|------------|---------------------|--------------------|--------------------------|
| 1/2       | 115V/1PH        | 3-Wire     | 300#                | 137426             | 127185                   |
|           | 230V/1PH        | 3-Wire     | 300#                | 137428             | 127189                   |
|           | 115V/1PH        | 2-Wire     | 300#                | 137412             |                          |
|           | 230V/1PH        | 2-Wire     | 300#                | 137414             |                          |
| 3/4       | 230V/1PH        | 3-Wire     | 300#                | 137430             | 127197                   |
|           | 230V/1PH        | 2-Wire     | 300#                | 137416             |                          |
| 1         | 230V/1PH        | 3-Wire     | 650#                | 137432             | 126319                   |
|           | 230V/1PH        | 2-Wire     | 650#                | 137418             |                          |
| 1-1/2     | 230V/1PH        | 3-Wire     | 650#                | 137434             | 133589                   |
|           | 230V/1PH        | 2-Wire     | 650#                | 137420             |                          |
|           | 200V/3PH        | 3-Wire     | 650#                | 137457             |                          |
|           | 230V/3PH        | 3-Wire     | 650#                | 137458             |                          |
|           | 460V/3PH        | 3-Wire     | 650#                | 137460             |                          |

| HP Rating | Voltage & Phase | Motor Type | Motor Thrust Rating | Motor Order Number | Control Box Order Number |
|-----------|-----------------|------------|---------------------|--------------------|--------------------------|
| 2         | 230V/1PH        | 3-Wire     | 650#                | 137435             | 137224+ 126321++         |
|           | 200V/3PH        | 3-Wire     | 650#                | 137461             |                          |
|           | 230V/3PH        | 3-Wire     | 650#                | 137462             |                          |
|           | 460V/3PH        | 3-Wire     | 650#                | 137464             |                          |
| 3         | 230V/1PH        | 3-Wire     | 900#                | 139422             | 136800+ 126322++         |
|           | 200V/3PH        | 3-Wire     | 900#                | 139423             |                          |
|           | 230V/3PH        | 3-Wire     | 900#                | 139424             |                          |
|           | 460V/3PH        | 3-Wire     | 900#                | 139425             |                          |
| 5         | 230V/1PH        | 3-Wire     | 1500#               | 137456             | 135269+ 137225++         |
|           | 200V/3PH        | 3-Wire     | 1500#               | 137469             |                          |
|           | 230V/3PH        | 3-Wire     | 1500#               | 137470             |                          |
|           | 460V/3PH        | 3-Wire     | 1500#               | 137472             |                          |
|           | 200V/3PH        | 3-Wire     | 1500#               | 137473             |                          |
| 7-1/2     | 230V/3PH        | 3-Wire     | 1500#               | 137474             |                          |
|           | 460V/3PH        | 3-Wire     | 1500#               | 137476             |                          |

++Standard control box.