

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



**PUMP COMPANY**

*Zoeller Family of Water Solutions™*

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**visit our web site:**  
[www.zoeller.com](http://www.zoeller.com)

- Stainless steel pump, motor shell and drive shaft. Quiet operation. No priming required. Economical operation.
- Submersible pumps are rated by the number of gallons per minute to the well head from various water level depths. Models rated at 5 & 7 GPM are for small homes, cottages and light water usage demands, whereas the 11 & 19 GPM models are for the average residential size home and family.
- 1/2 thru 1 HP motors used on Zoeller pumps are designed to meet NEMA standards. 1/2 HP models are available in either 115 or 230 volt. The 3/4 and 1 HP models are available in 230 volt only. All models are available with either 2 or 3 wire connection plus ground wire.

## COMPARE THESE FEATURES

- 1-1/4" cast iron discharge head prevents cross-threading.
- Corrosion resistant 304 stainless steel pump shell.
- NEMA faced mounting ring for long life and protection from motor torque.
- Stainless steel hex drive shaft with one-piece stainless steel motor-to-shaft coupling.
- NEMA standard 2 or 3 wire water-cooled motor with ground wire (not shown).
- Includes internal positive sealing check valve.
- Non-fusing and corrosion-resistant impellers, diffusers and inlet screen molded of Noryl® resin.

Noryl® is a registered Trademark of General Electric Company.

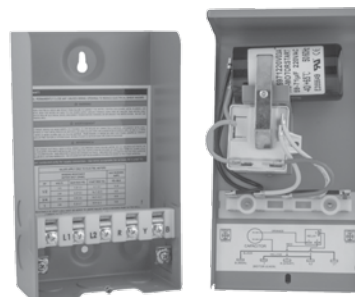
| 3-Wire Control Box Part Number |            |        |
|--------------------------------|------------|--------|
| 10-2336                        | 450 Series | 1/2 HP |
| 10-2337                        | 451 Series | 3/4 HP |
| 10-2338                        | 452 Series | 1 HP   |

## 450 - 451 - 452 "POTABLE WATER TURBINE" Stainless Steel/Cast Iron "A" Series 4" Submersible Pumps 5, 7, 11 & 19 GPM MODELS AVAILABLE



Product may not be exactly as shown.

For use in potable clean water systems only.

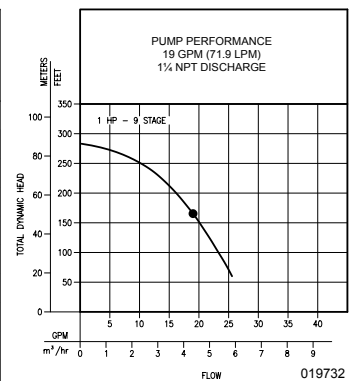
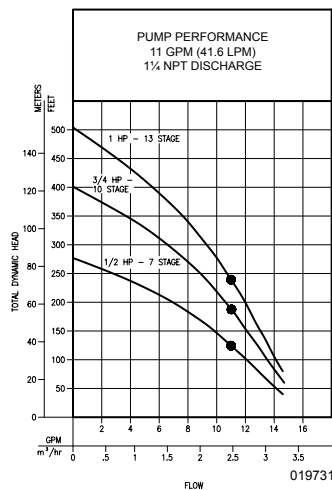
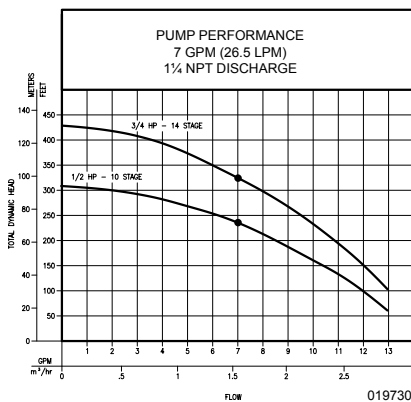
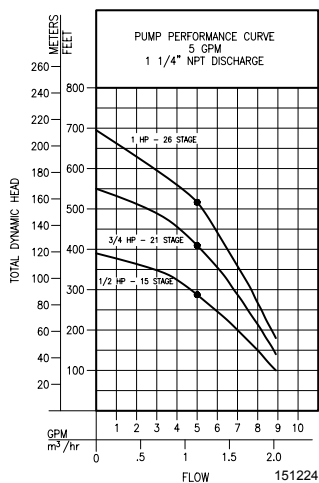


### CONTROL BOX REQUIRED FOR 3-WIRE MODELS

Quick-disconnect control box features replaceable snapout cover and keeps all components above ground for easy access and repair. Control box not required for 2-wire models.

# 4" Submersible Cast Iron Pump Selection Charts

|                          | Model    | Volts | HP  | Stages | Motor Type     | Ship Wt. | Dsch. Press. PSI.         | DEPTH TO WATER LEVEL IN FEET - CAPACITIES IN GALLONS PER MINUTE |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          | Max. Press.              |                          |     |     |     |     |     |     |     |     |     |
|--------------------------|----------|-------|-----|--------|----------------|----------|---------------------------|-----------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                          |          |       |     |        |                |          |                           | 20                                                              | 40                                   | 60                                   | 80                                   | 100                                 | 120                                 | 140                                | 160                                | 180                                | 200                               | 225                               | 250                               | 275                              | 300                             | 325                             | 350                             | 400                             | 450                      | 500                      | 550                      | 600 | 650 | Ft. | PSI |     |     |     |     |     |
|                          |          |       |     |        |                |          |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
| 5 GPM<br>1/2 THRU 1 HP   | 450-0012 | 115   | 1/2 | 15     | 1 PH<br>2 Wire | 26.5     | 0<br>20<br>40<br>60<br>80 |                                                                 |                                      | 8.8<br>8.3<br>7.5<br>6.5             | 8.4<br>7.9<br>7.1<br>6.1             | 8.9<br>8.1<br>7.5<br>6.2<br>5.1     | 8.5<br>7.7<br>6.7<br>5.8<br>4.6     | 8.2<br>7.3<br>6.3<br>5.3<br>4.0    | 7.8<br>6.9<br>5.9<br>4.8<br>3.4    | 7.4<br>6.5<br>4.9<br>4.2<br>2.6    | 7.0<br>6.0<br>4.9<br>3.6<br>1.2   | 6.5<br>5.5<br>4.8<br>3.5<br>2.7   | 5.9<br>4.8<br>4.1<br>3.2<br>2.3   | 5.3<br>4.1<br>3.3<br>2.3<br>1.5  | 4.7<br>3.3<br>2.3<br>1.3<br>0.8 | 4.0<br>2.3<br>1.3<br>0.8<br>0.4 | 3.2<br>1.5<br>0.8<br>0.4<br>0.2 |                                 |                          |                          |                          |     |     | 390 | 168 |     |     |     |     |     |
|                          | 450-0013 | 230   |     |        |                |          |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 450-0008 | 230   | 3/4 | 21     |                | 31.25    | 0<br>20<br>40<br>60<br>80 |                                                                 |                                      |                                      | 8.7<br>8.2<br>7.9<br>7.6             | 8.5<br>8.2<br>7.7<br>7.3            | 8.8<br>8.0<br>7.4<br>6.7            | 8.6<br>7.7<br>7.1<br>6.4           | 8.3<br>7.8<br>7.5<br>6.1           | 8.1<br>7.8<br>7.2<br>6.5<br>5.9    | 7.8<br>7.5<br>6.9<br>6.2<br>5.5   | 7.2<br>6.5<br>5.7<br>5.4<br>4.5   | 6.8<br>6.1<br>5.3<br>4.9<br>4.0   | 6.5<br>5.7<br>5.3<br>4.9<br>3.3  | 6.1<br>5.3<br>4.4<br>3.9<br>2.6 | 5.2<br>4.3<br>3.1<br>1.3<br>0.8 | 4.2<br>3.0<br>1.3<br>0.8<br>0.4 | 2.9<br>1.3<br>0.8<br>0.4<br>0.2 |                          |                          |                          |     |     |     | 550 | 238 |     |     |     |     |
|                          | 452-0009 | 230   | 1   | 26     | 1PH<br>2 Wire  | 35.5     | 0<br>20<br>40<br>60<br>80 |                                                                 |                                      |                                      |                                      | 8.7<br>8.3<br>8.1<br>8.0            | 9.0<br>8.5<br>8.1<br>7.6            | 8.8<br>8.3<br>7.9<br>7.4           | 8.6<br>8.1<br>7.7<br>7.2           | 8.4<br>7.9<br>7.5<br>7.0           | 8.2<br>7.7<br>7.2<br>6.7          | 7.9<br>7.4<br>6.9<br>6.5          | 7.7<br>7.2<br>6.7<br>6.1          | 7.4<br>6.6<br>6.3<br>5.8         | 7.1<br>6.5<br>6.0<br>5.5        | 6.5<br>5.9<br>5.4<br>4.7        | 5.9<br>5.3<br>4.6<br>3.9        | 5.3<br>4.6<br>3.7<br>2.7        | 4.5<br>3.7<br>2.5<br>1.5 | 3.6<br>2.4<br>1.5<br>0.8 | 2.3<br>1.3<br>0.8<br>0.4 |     |     |     |     |     |     | 695 | 300 |     |
| 7 GPM<br>1/2 THRU 1/4 HP | 450-0005 | 230   | 1/2 | 10     | 1 PH<br>3 Wire | 22       | 0<br>20<br>40<br>60<br>80 |                                                                 | 12.9<br>11.3<br>9.8<br>8.1           | 13.6<br>12.2<br>10.7<br>9.1          | 13.0<br>11.6<br>10.0<br>8.3          | 12.4<br>10.9<br>9.3<br>7.5          | 11.7<br>10.3<br>8.5<br>6.5          | 11.0<br>9.6<br>7.7<br>5.3          | 10.4<br>8.9<br>6.8<br>4.0          | 9.8<br>8.1<br>5.7<br>2.3           | 9.0<br>7.2<br>4.4<br>2.8          | 8.2<br>6.1<br>2.8<br>1.5          | 7.2<br>4.7<br>2.6<br>1.2          | 5.8<br>2.6<br>1.2<br>0.8         | 4.2<br>2.1<br>1.2<br>0.8        | 2.1<br>1.2<br>0.8<br>0.4        |                                 |                                 |                          |                          |                          |     |     |     |     |     | 310 | 137 |     |     |
|                          | 450-0006 | 115   |     |        | 1 PH<br>2 Wire | 22       |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 450-0007 | 230   |     |        |                |          |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 451-0005 | 230   | 3/4 | 14     | 1 PH<br>2 Wire | 27       | 0<br>20<br>40<br>60<br>80 |                                                                 | 13.1<br>12.2<br>11.8<br>11.2<br>10.0 | 13.6<br>12.7<br>11.8<br>10.7<br>9.5  | 13.2<br>12.4<br>11.3<br>10.2<br>8.9  | 12.9<br>11.9<br>10.9<br>9.6<br>8.2  | 12.5<br>11.5<br>10.3<br>9.1<br>7.7  | 12.0<br>11.0<br>9.8<br>8.5<br>6.9  | 11.6<br>10.5<br>9.2<br>7.9<br>6.3  | 11.1<br>10.0<br>8.6<br>7.2<br>5.4  | 10.7<br>9.4<br>8.0<br>6.5<br>4.4  | 10.0<br>8.7<br>7.2<br>5.5<br>2.7  | 9.3<br>7.9<br>6.3<br>4.2<br>1.5   | 8.5<br>7.1<br>5.3<br>2.3<br>0.8  | 7.8<br>6.2<br>3.9<br>1.8<br>0.4 | 6.9<br>5.2<br>3.3<br>1.8<br>0.4 | 6.0<br>3.7<br>1.8<br>0.4<br>0.2 | 3.4<br>1.8<br>0.4<br>0.2<br>0.1 |                          |                          |                          |     |     |     |     |     |     |     | 430 | 186 |
| 11 GPM<br>1/2 THRU 1 HP  | 450-0008 | 115   | 1/2 | 7      | 1 PH<br>3 Wire | 21       | 0<br>20<br>40<br>60<br>80 |                                                                 | 13.5<br>11.6<br>9.4<br>6.6           | 14.6<br>12.6<br>10.7<br>8.3          | 13.7<br>11.8<br>9.7<br>7.1           | 12.9<br>11.0<br>8.7<br>5.6          | 12.1<br>10.0<br>7.5<br>3.9          | 11.2<br>9.0<br>6.1<br>2.0          | 10.3<br>7.9<br>4.5<br>1.5          | 9.4<br>6.5<br>2.6<br>0.8           | 8.2<br>5.0<br>1.5<br>0.8          | 7.0<br>3.2<br>0.8<br>0.4          | 5.1<br>2.9<br>1.2<br>0.8          | 2.9<br>1.2<br>0.8<br>0.4         |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     | 277 | 120 |     |
|                          | 450-009  | 230   |     |        | 1 PH<br>2 Wire | 21       |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 450-0010 | 115   |     |        |                |          |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 450-0011 | 230   |     |        |                |          |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
| 11 GPM<br>1/2 THRU 1 HP  | 451-0006 | 230   | 3/4 | 10     | 1 PH<br>3 Wire | 25       | 0<br>20<br>40<br>60<br>80 |                                                                 | 14.5<br>13.2<br>11.9<br>10.5         | 13.9<br>12.6<br>11.3<br>9.8          | 14.7<br>13.3<br>12.1<br>10.7         | 14.1<br>12.8<br>11.5<br>10.3        | 13.5<br>12.2<br>10.9<br>9.3         | 13.0<br>11.7<br>10.2<br>8.5        | 12.4<br>11.1<br>9.5<br>7.6         | 11.8<br>10.4<br>8.8<br>6.7         | 11.3<br>9.8<br>7.9<br>5.6         | 10.6<br>9.0<br>7.0<br>4.5         | 9.8<br>8.0<br>5.7<br>2.8          | 8.9<br>6.8<br>4.2<br>1.5         | 7.8<br>5.5<br>2.6<br>0.8        | 6.6<br>4.0<br>2.3<br>0.4        | 5.3<br>3.3<br>1.8<br>0.4        | 3.8<br>1.8<br>0.4<br>0.2        |                          |                          |                          |     |     |     |     |     |     |     | 401 | 173 |
|                          | 451-0007 |       |     |        | 1 PH<br>2 Wire | 25       |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
|                          | 452-0005 | 230   | 1   | 13     | 1 PH<br>3 Wire | 29       | 0<br>20<br>40<br>60<br>80 |                                                                 | 14.9<br>13.9<br>12.4<br>11.8         | 14.5<br>13.4<br>12.0<br>11.4         | 14.0<br>13.0<br>12.0<br>10.9         | 13.6<br>12.6<br>11.5<br>10.3        | 13.1<br>12.1<br>11.0<br>9.8         | 12.7<br>11.7<br>10.5<br>9.2        | 12.3<br>11.2<br>10.0<br>8.5        | 11.8<br>10.7<br>9.4<br>7.9         | 11.3<br>9.6<br>8.1<br>6.3         | 12.0<br>10.8<br>7.2<br>5.2        | 11.4<br>10.2<br>6.1<br>3.2        | 10.7<br>9.5<br>7.2<br>4.0        | 10.1<br>8.7<br>5.0<br>2.6       | 9.3<br>7.8<br>4.8<br>1.5        | 8.5<br>6.9<br>3.8<br>0.8        | 7.7<br>5.8<br>2.4<br>0.4        | 5.6<br>3.4<br>1.5<br>0.2 | 3.2<br>1.8<br>0.4<br>0.1 |                          |     |     |     |     |     |     |     | 504 | 218 |
|                          | 452-0006 |       |     |        | 1 PH<br>2 Wire | 29       |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |
| 19 GPM<br>1 HP           | 452-007  | 230   | 1   | 9      | 1 PH<br>3 Wire | 27       | 0<br>20<br>40<br>60<br>80 |                                                                 | 25.2<br>22.5<br>21.2<br>19.5<br>15.7 | 24.0<br>21.2<br>19.8<br>17.9<br>13.7 | 25.5<br>21.7<br>19.8<br>16.4<br>11.5 | 24.4<br>20.4<br>18.4<br>14.5<br>8.0 | 23.2<br>20.4<br>16.8<br>12.2<br>6.6 | 22.1<br>19.0<br>15.2<br>9.6<br>3.5 | 20.7<br>17.4<br>12.8<br>7.6<br>3.5 | 19.4<br>15.6<br>10.4<br>5.6<br>1.5 | 17.8<br>13.7<br>8.6<br>4.6<br>1.5 | 16.2<br>13.7<br>8.2<br>4.2<br>1.2 | 13.7<br>11.4<br>6.2<br>2.2<br>0.8 | 10.7<br>5.0<br>1.2<br>0.8<br>0.4 | 5.0<br>1.2<br>0.8<br>0.4<br>0.2 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     | 283 | 122 |
|                          | 452-008  |       |     |        | 1 PH<br>2 Wire | 27       |                           |                                                                 |                                      |                                      |                                      |                                     |                                     |                                    |                                    |                                    |                                   |                                   |                                   |                                  |                                 |                                 |                                 |                                 |                          |                          |                          |     |     |     |     |     |     |     |     |     |



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