



# 4" Pump Ends

5 - 70 GPM Stainless Steel Pumps



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Components of 4" Stainless Steel Pump

A.Y. McDonald offers a full line of submersible pump ends ranging from 1/2 horsepower through 10 horsepower. Our submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 GPM.

- Stainless Steel Construction designed and built for years of trouble free operation
- Stainless Steel discharge head with built-in check valve
- High-efficiency Stainless Steel impellers & diffusers
- Stainless Steel suction screen
- Stainless Steel shaft & coupling
- Stainless Steel NEMA faced mounting bracket



## How to Order 4" Stainless Steel Pump Ends

Order by Model Number. Example: 26050J

### 26

#### Pump Model

4" Submersible  
Stainless Steel Pumps  
are **Model 26**

|        |        |
|--------|--------|
| 5 GPM  | 25 GPM |
| 10 GPM | 40 GPM |
| 18 GPM | 70 GPM |

### 050

#### Horsepower

|                       |                       |
|-----------------------|-----------------------|
| <b>050</b> - 1/2 HP   | <b>300</b> - 3 HP     |
| <b>075</b> - 3/4 HP   | <b>500</b> - 5 HP     |
| <b>100</b> - 1 HP     | <b>750</b> - 7 1/2 HP |
| <b>150</b> - 1 1/2 HP | <b>1000</b> - 10 HP   |
| <b>200</b> - 2 HP     |                       |

### J

#### Series

|                          |                          |
|--------------------------|--------------------------|
| <b>J Series</b> - 5 GPM  | <b>M Series</b> - 25 GPM |
| <b>K Series</b> - 10 GPM | <b>G Series</b> - 40 GPM |
| <b>P Series</b> - 18 GPM | <b>H Series</b> - 70 GPM |



Check Valve  
Discharge Head

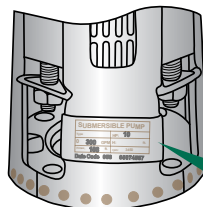
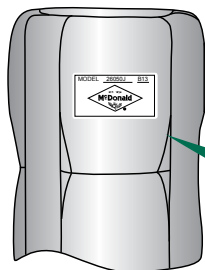


Diffuser  
Impeller



Suction Screen  
NEMA Faced Bracket

## How to Identify Pump Ends in the Field



#### Serial Number

#### SUBMERSIBLE PUMP

|               |           |
|---------------|-----------|
| Type          | HP: 10    |
| 0 300         | H: ft.    |
| Hmax: 188 ft. | rpm: 3450 |

Date Code 058 05074557

## J Series - 5 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All J Series Stainless Steel Pump Ends come with a 1 1/4" discharge and sizes range from 1/2 to 2 horse power (HP).

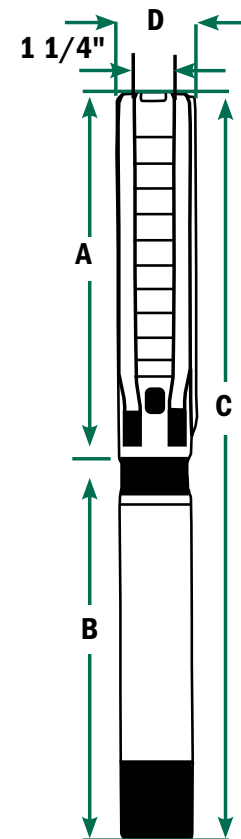


Fig. A

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |      |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C    | D    | Pump   | Motor | Total |
| 26050J       | 1/2   | 13    | 1 1/4"      | 16.8                | 9.5  | 26.3 | 3.82 | 8.4    | 18    | 26.4  |
| 26075J       | 3/4   | 18    | 1 1/4"      | 21                  | 10.7 | 31.7 | 3.82 | 10.6   | 21    | 31.6  |
| 26100J       | 1     | 22    | 1 1/4"      | 24.3                | 11.8 | 36.1 | 3.82 | 12.1   | 23    | 35.1  |
| 26150J       | 1 1/2 | 26    | 1 1/4"      | 27.5                | 13.6 | 41.1 | 3.82 | 13.7   | 27    | 40.7  |
| 26200J       | 2     | 31    | 1 1/4"      | 31.7                | 13.6 | 45.3 | 3.82 | 15.9   | 27    | 42.9  |

### Output - in Gallons Per Minute (Depth to Water)

| 1/2 HP | PSI | 20' | 40' | 60' | 80' | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' |
|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |     |     |     |     |      |      | 7.4  | 6.9  | 6.5  | 6.0  | 5.5  | 5.1  | 4.6  | 4.1  | 3.4  |
|        | 30  |     |     |     | 7.2 | 6.7  | 6.2  | 5.8  | 5.3  | 4.9  | 4.4  | 3.8  | 3.1  | 2.0  |      |      |
|        | 50  | 7.5 | 7.0 | 6.6 | 6.1 | 5.6  | 5.2  | 4.7  | 4.2  | 3.6  | 2.8  | 1.5  |      |      |      |      |

| 3/4 HP | PSI | 60' | 80' | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |     |     |      |      |      | 7.9  | 7.6  | 7.3  | 7.0  | 6.6  | 6.3  | 5.9  | 5.6  | 4.9  | 4.2  | 3.3  | 1.8  |
|        | 30  |     |     | 7.8  | 7.5  | 7.1  | 6.8  | 6.5  | 6.1  | 5.8  | 5.4  | 5.1  | 4.8  | 4.4  | 3.6  | 2.3  |      |      |
|        | 50  | 7.7 | 7.4 | 7.0  | 6.7  | 6.3  | 6.0  | 5.7  | 5.3  | 5.0  | 4.7  | 4.3  | 3.9  | 3.4  | 2.0  |      |      |      |

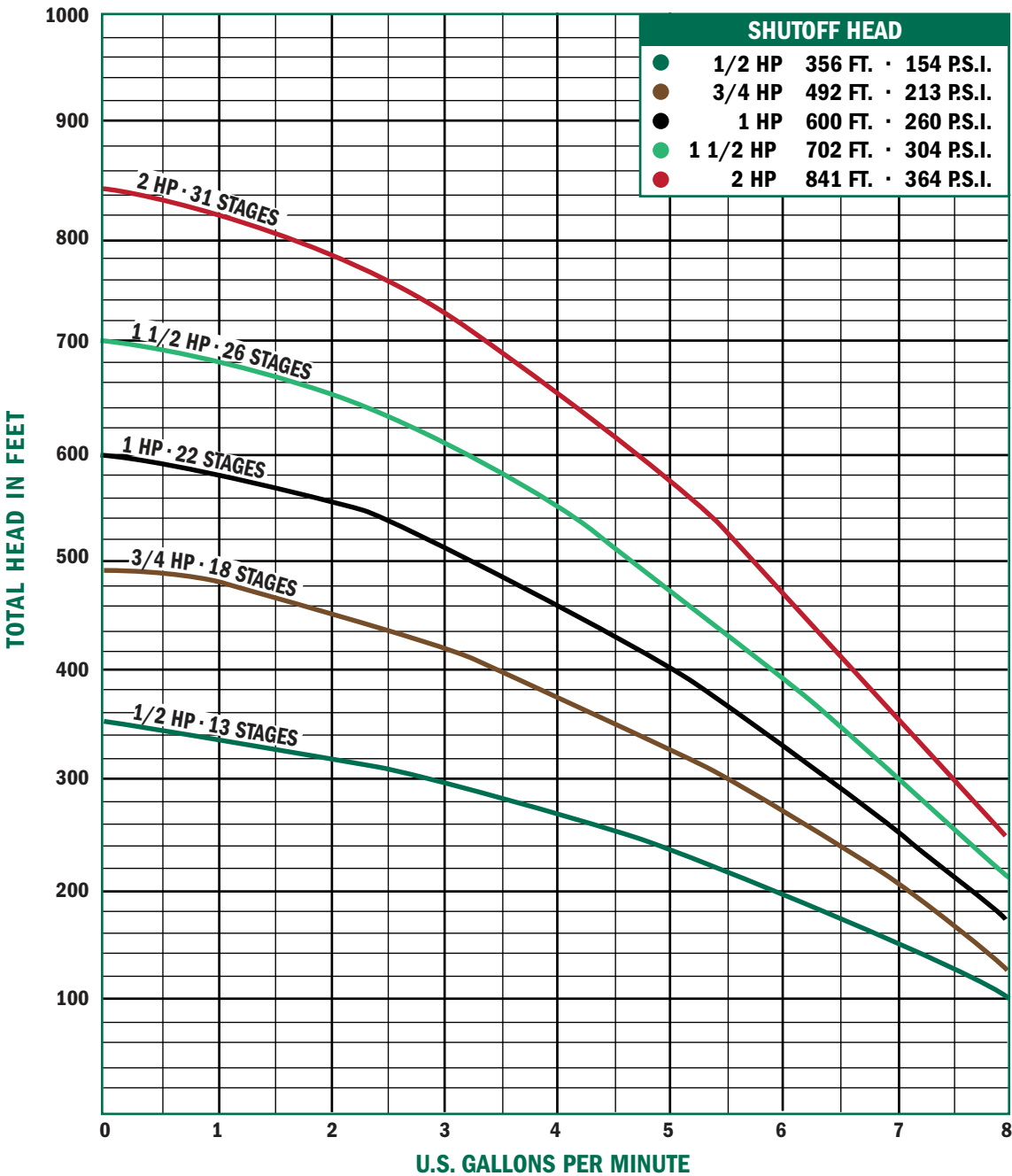
| 1 HP | PSI | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      |      |      | 7.6  | 7.3  | .1   | 6.8  | 6.5  | 6.0  | 5.4  | 4.9  | 4.3  | 3.6  | 2.6  |
|      | 30  |      |      | 7.5  | 7.2  | 6.9  | 6.7  | 6.4  | 6.1  | 5.8  | 5.6  | 5.0  | 4.5  | 3.8  | 2.9  | 1.5  |      |
|      | 50  | 7.4  | 7.1  | 6.9  | 6.6  | 6.3  | 6.0  | 5.7  | 5.5  | 5.2  | 4.9  | 4.4  | 3.7  | 2.7  | 1.2  |      |      |

| 1.5 HP | PSI | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |      |      |      |      | 7.8  | 7.6  | 7.4  | 7.2  | 6.7  | 6.2  | 5.7  | 5.3  | 4.8  | 4.4  | 3.8  | 3.0  | 1.9  |
|        | 30  |      |      | 7.5  | 7.3  | 7.1  | 6.8  | 6.6  | 6.3  | 5.9  | 5.4  | 5.0  | 4.5  | 4.0  | 3.3  | 2.3  |      |      |
|        | 50  | 7.4  | 7.2  | 7.0  | 6.7  | 6.5  | 6.3  | 6.0  | 5.8  | 5.3  | 4.9  | 4.4  | 3.9  | 3.1  | 2.1  |      |      |      |

| 2 HP | PSI | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' | 700' | 740' | 780' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      |      |      | 7.7  | 7.3  | 6.9  | 6.5  | 6.2  | 5.8  | 5.4  | 5.0  | 4.6  | 4.2  | 3.7  | 3.0  | 2.1  |
|      | 30  |      |      |      | 7.4  | 7.2  | 7.0  | 6.7  | 6.3  | 5.9  | 5.5  | 5.1  | 4.7  | 4.3  | 3.8  | 3.2  | 2.4  | 1.2  |      |
|      | 50  | 7.5  | 7.4  | 7.2  | 7.0  | 6.8  | 6.6  | 6.2  | 5.8  | 5.4  | 5.0  | 4.7  | 4.2  | 3.7  | 3.1  | 2.2  |      |      |      |

FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

J Series - 5 GPM



## K Series - 10 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All K Series Stainless Steel Pump Ends come with a 1 1/4" discharge and sizes range from 1/2 to 3 horse power (HP).

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |      |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C    | D    | Pump   | Motor | Total |
| 26050K       | 1/2   | 9     | 1 1/4"      | 13.5                | 9.5  | 23   | 3.82 | 6.9    | 18    | 24.9  |
| 26075K       | 3/4   | 12    | 1 1/4"      | 16                  | 10.7 | 26.7 | 3.82 | 8      | 21    | 29    |
| 26100K       | 1     | 15    | 1 1/4"      | 18.5                | 11.8 | 30.3 | 3.82 | 9.3    | 23    | 32.3  |
| 26150K       | 1 1/2 | 21    | 1 1/4"      | 23.5                | 13.6 | 37.1 | 3.82 | 12.6   | 27    | 39.6  |
| 26200K       | 2     | 27    | 1 1/4"      | 28.4                | 15.1 | 43.5 | 3.82 | 15     | 30    | 45    |
| 26300K       | 3     | 34    | 1 1/4"      | 34.2                | 23.5 | 57.7 | 3.82 | 19     | 54    | 73    |

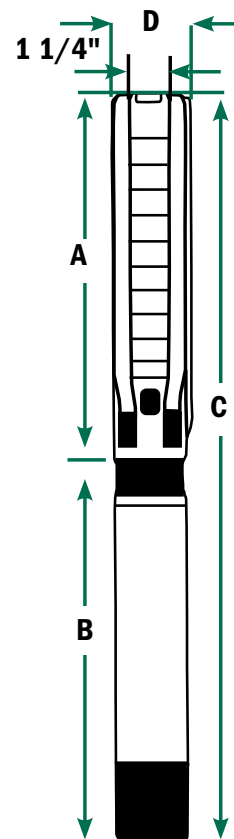


Fig. A

### Output - in Gallons Per Minute (Depth to Water)

| 1/2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |      | 16.2 | 15.5 | 14.8 | 14.0 | 13.1 | 12.1 | 11.0 | 9.8  | 8.3  | 6.3  | 3.1  |
|        | 30  | 14.4 | 13.6 | 12.6 | 11.6 | 10.4 | 9.1  | 7.5  | 5.0  |      |      |      |      |
|        | 50  | 12.3 | 11.2 | 10.1 | 8.7  | 6.8  | 4.0  |      |      |      |      |      |      |

| 3/4 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |      |      | 16.0 | 15.5 | 15.0 | 14.4 | 13.8 | 13.1 | 12.3 | 11.5 | 10.7 | 9.8  | 8.7  | 7.4  | 5.6  |
|        | 30  | 15.3 | 14.7 | 14.1 | 13.4 | 12.7 | 12.0 | 11.1 | 10.3 | 9.3  | 8.1  | 6.6  | 4.6  |      |      |      |
|        | 50  | 13.9 | 13.2 | 12.5 | 11.7 | 10.9 | 10.0 | 9.0  | 7.7  | 6.0  | 3.8  |      |      |      |      |      |

| 1 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      | 16.0 | 15.8 | 15.5 | 15.0 | 14.5 | 13.9 | 13.2 | 12.5 | 11.8 | 11.2 | 10.5 | 9.8  | 8.0  | 5.2  |
|      | 30  | 15.9 | 15.6 | 15.3 | 14.8 | 14.2 | 13.6 | 12.9 | 12.2 | 11.5 | 10.8 | 10.1 | 9.4  | 8.5  | 7.4  | 6.1  |      |      |
|      | 50  | 15.1 | 14.6 | 14.0 | 13.4 | 12.7 | 12.0 | 11.3 | 10.6 | 9.9  | 9.1  | 8.2  | 7.1  | 5.6  | 3.6  |      |      |      |

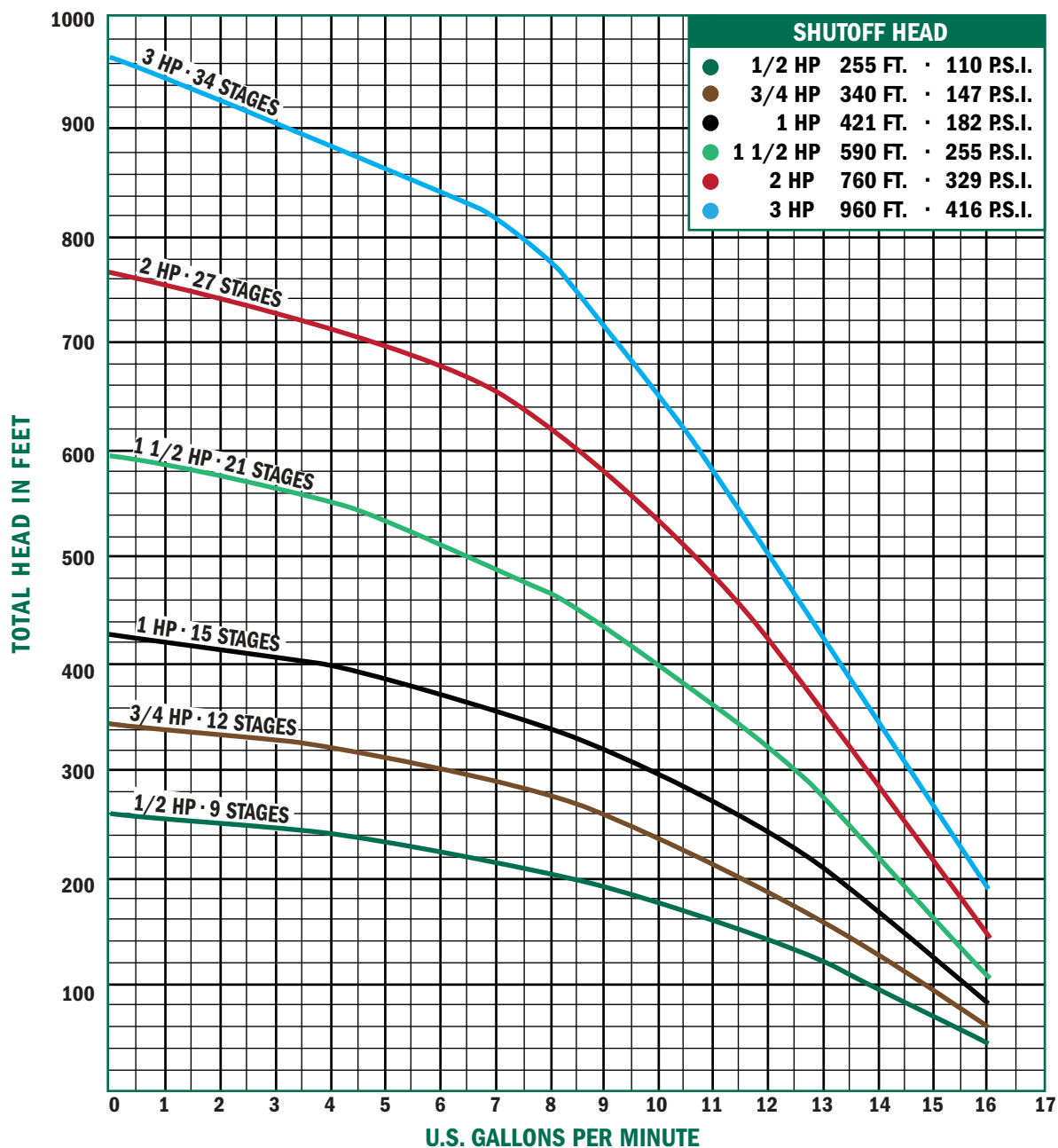
| 1.5<br>HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' |
|-----------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|           | 0   |      |      |      |      |      | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.2 | 13.9 | 13.5 | 13.1 | 12.6 | 11.8 | 10.8 | 9.8  | 8.5  | 6.9  | 4.6  |
|           | 30  |      | 16.0 | 15.7 | 15.4 | 15.1 | 14.8 | 14.4 | 14.1 | 13.7 | 13.3 | 12.9 | 12.4 | 12.0 | 11.5 | 11.1 | 10.1 | 8.9  | 7.4  | 5.3  | 2.3  |      |
|           | 50  | 15.6 | 15.3 | 15.0 | 14.7 | 14.3 | 13.9 | 13.6 | 13.2 | 12.7 |      |      |      |      |      |      |      |      |      |      |      |      |

| 2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' | 700' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      |      | 16.4 | 16.2 | 16.0 | 15.8 | 15.5 | 15.3 | 15.1 | 14.8 | 14.6 | 14.3 | 14.0 | 13.4 | 12.7 | 12.1 | 11.3 | 10.6 | 9.8  | 8.8  | 7.7  | 6.3  | 4.3  |
|      | 30  |      |      |      | 15.9 | 15.7 | 15.2 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.2 | 12.9 | 12.2 | 11.5 | 10.8 | 10.0 | 9.1  | 8.0  | 6.7  | 4.9  | 2.5  |      |      |
|      | 50  | 16.0 | 15.8 | 15.6 | 15.4 | 15.1 | 14.9 | 14.6 | 14.3 | 14.1 | 13.8 | 13.4 | 13.1 | 12.8 | 12.5 | 12.1 | 11.4 | 10.7 | 9.9  | 9.0  | 7.8  | 6.4  | 4.6  | 2.1  |      |      |

| 3<br>HP | PSI | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' | 700' | 740' | 780' | 820' | 860' | 900' |
|---------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 0   |      |      |      |      |      |      | 15.9 | 15.8 | 15.6 | 15.4 | 15.2 | 15.0 | 14.8 | 14.4 | 14.0 | 13.5 | 13.0 | 12.4 | 11.9 | 11.3 | 10.7 | 10.1 | 9.4  | 8.6  | 7.7  | 6.6  | 5.2  | 3.5  |
|         | 30  |      |      | 16.0 | 15.9 | 15.7 | 15.5 | 15.3 | 15.1 | 14.9 | 14.7 | 14.5 | 14.3 | 14.1 | 13.6 | 13.1 | 12.6 | 12.0 | 11.5 | 10.9 | 10.3 | 9.6  | 8.9  | 8.0  | 6.9  | 5.6  | 4.0  |      |      |
|         | 50  | 16.0 | 15.8 | 15.6 | 15.5 | 15.3 | 15.1 | 14.9 | 14.7 | 14.5 | 14.2 | 14.0 | 13.8 | 13.5 | 13.0 | 12.5 | 12.0 | 11.4 | 10.8 | 10.2 | 9.5  | 8.7  | 7.8  | 6.7  | 5.4  | 3.7  |      |      |      |

FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

## K Series - 10 GPM



## P Series - 18 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All P Series Stainless Steel Pump Ends come with a 1 1/4" discharge and sizes range from 1/2 to 5 horse power (HP).

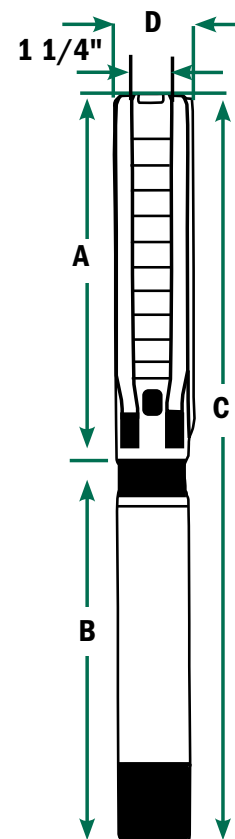


Fig. A

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |      |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C    | D    | Pump   | Motor | Total |
| 26050P       | 1/2   | 5     | 1 1/4"      | 10.3                | 9.5  | 19.8 | 3.82 | 5.1    | 18    | 23.1  |
| 26075P       | 3/4   | 7     | 1 1/4"      | 11.7                | 10.7 | 22.4 | 3.82 | 6      | 21    | 27    |
| 26100P       | 1     | 9     | 1 1/4"      | 13.4                | 11.8 | 25.3 | 3.82 | 6.9    | 23    | 29.9  |
| 26150P       | 1 1/2 | 13    | 1 1/4"      | 16.9                | 13.6 | 30.5 | 3.82 | 8.6    | 27    | 35.6  |
| 26200P       | 2     | 17    | 1 1/4"      | 20.2                | 15.1 | 35.3 | 3.82 | 10.4   | 30    | 40.4  |
| 26300P       | 3     | 23    | 1 1/4"      | 25.1                | 23.5 | 48.6 | 3.82 | 13     | 54    | 67    |
| 26500P       | 5     | 36    | 1 1/4"      | 35.9                | 29.5 | 65.4 | 3.82 | 18.7   | 65    | 83.7  |

### Output - in Gallons Per Minute (Depth to Water)

| 1/2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 3/4 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' |
|--------|-----|------|------|------|------|------|------|------|--------|-----|------|------|------|------|------|------|------|------|------|
|        | 0   |      | 24.0 | 22.1 | 20.0 | 17.0 | 13.0 | 7.0  |        | 0   |      | 25.4 | 23.6 | 22.7 | 21.2 | 19.3 | 17.1 | 14.5 | 10.5 |
|        | 30  | 18.8 | 15.0 | 10.0 | 2.5  |      |      |      |        | 30  | 22.1 | 20.4 | 18.3 | 16.0 | 12.9 | 8.1  |      |      |      |
|        | 50  | 8.0  | 1.0  |      |      |      |      |      |        | 50  | 17.6 | 15.1 | 11.6 | 6.3  |      |      |      |      |      |

| 1 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      | 27.7 | 24.4 | 23.4 | 22.6 | 21.3 | 19.6 | 17.7 | 15.6 | 12.8 | 9.1  |
|      | 30  | 23.8 | 23.1 | 22.1 | 20.6 | 18.8 | 16.8 | 14.4 | 11.2 | 7.0  |      |      |      |
|      | 50  | 21.7 | 20.0 | 18.2 | 16.1 | 13.5 | 10.0 |      |      |      |      |      |      |

| 1.5 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0   |      |      | 27.7 | 24.9 | 23.7 | 23.2 | 22.8 | 22.3 | 21.5 | 20.5 | 19.4 | 18.3 | 17.1 | 15.8 | 14.2 | 9.8  |
|        | 30  | 24.2 | 23.5 | 23.1 | 22.6 | 21.9 | 21.0 | 20.0 | 18.9 | 17.8 | 16.5 | 15.1 | 13.4 | 11.2 | 8.5  |      |      |
|        | 50  | 22.9 | 22.4 | 21.7 | 20.7 | 19.7 | 18.6 | 17.4 | 16.1 | 14.6 | 12.7 | 10.4 | 7.5  |      |      |      |      |

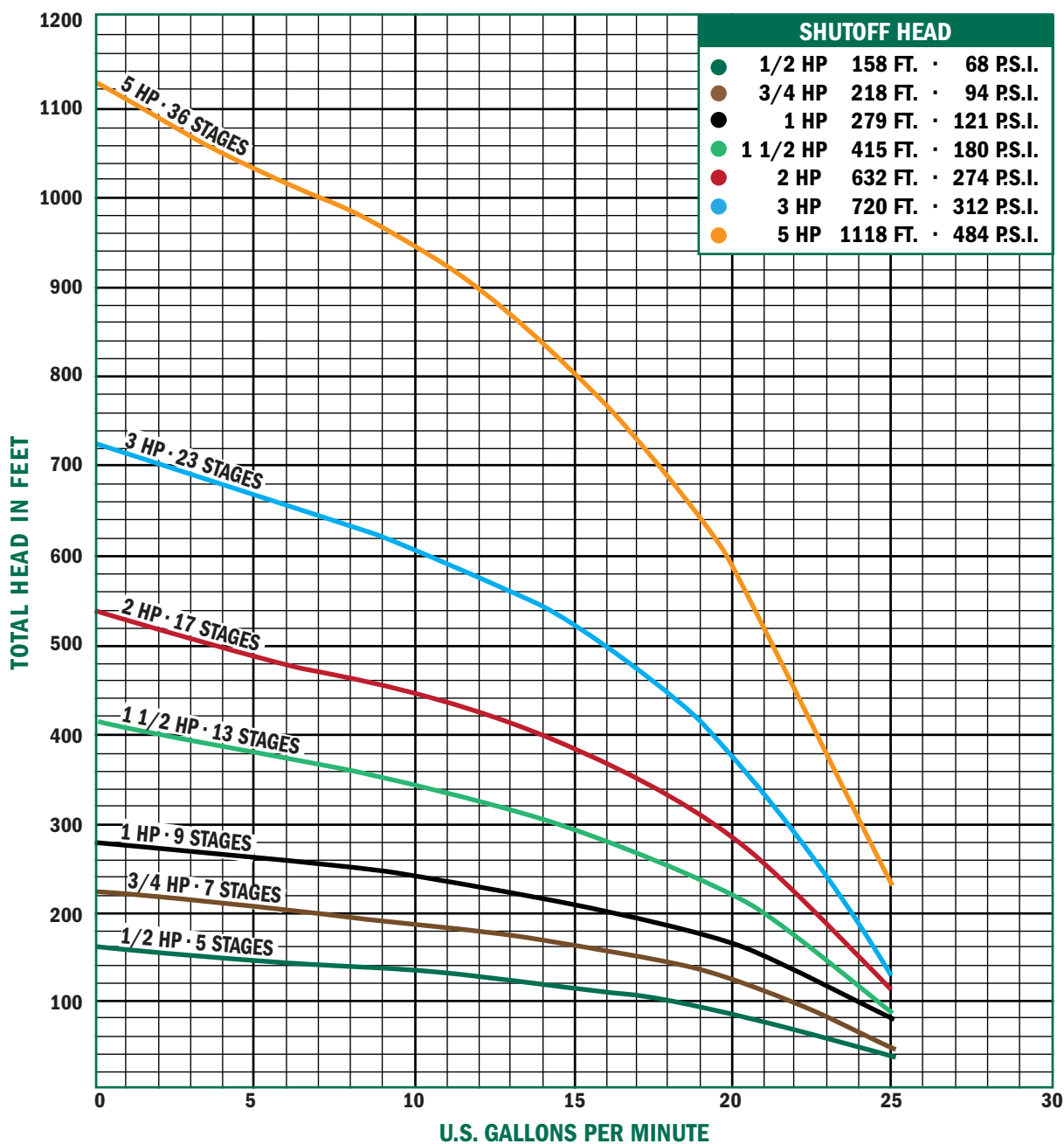
| 2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      | 27.4 | 25.2 | 24.1 | 23.6 | 23.2 | 22.9 | 22.5 | 22.0 | 21.3 | 20.6 | 19.8 | 18.9 | 17.1 | 15.0 | 12.1 | 8.1  |
|      | 30  | 26.2 | 24.6 | 23.8 | 23.4 | 23.1 | 22.7 | 22.3 | 21.7 | 21.0 | 20.2 | 19.4 | 18.5 | 17.6 | 16.7 | 15.6 | 13.0 | 9.3  |      |      |
|      | 50  | 23.6 | 23.3 | 23.0 | 22.6 | 22.1 | 21.5 | 20.7 | 19.9 | 19.1 | 18.2 | 17.3 | 16.4 | 15.3 | 14.0 | 12.5 | 8.6  |      |      |      |

| 3 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      |      | 28.3 | 26.2 | 24.9 | 24.2 | 23.7 | 23.4 | 23.2 | 23.0 | 22.7 | 22.3 | 21.9 | 20.9 | 19.7 | 18.5 | 17.1 | 15.6 | 13.8 | 11.4 | 8.3  |
|      | 30  |      | 27.2 | 25.6 | 24.5 | 23.9 | 23.6 | 23.3 | 23.1 | 22.8 | 22.5 | 22.2 | 21.7 | 21.2 | 20.6 | 20.0 | 18.8 | 17.5 | 16.0 | 14.3 | 12.1 | 9.2  |      |      |
|      | 50  | 25.2 | 24.3 | 23.8 | 23.5 | 23.2 | 23.0 | 22.8 | 22.4 | 22.0 | 21.6 | 21.0 | 20.5 | 19.9 | 19.2 | 18.6 | 17.3 | 15.8 | 14.0 | 11.7 | 8.7  |      |      |      |

| 5 HP | PSI | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' | 700' | 740' | 780' | 820' | 860' | 900' | 940' | 980' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 0   |      |      |      |      |      |      | 28.1 | 26.7 | 25.7 | 24.9 | 24.4 | 24.0 | 23.7 | 23.5 | 23.2 | 22.9 | 22.6 | 22.1 | 21.5 | 20.8 | 20.0 | 19.2 | 18.4 | 17.6 | 16.7 | 15.7 | 14.6 | 13.2 | 11.7 | 9.9  | 7.8  |
|      | 30  |      |      |      | 27.4 | 26.2 | 25.3 | 24.6 | 24.2 | 23.9 | 23.6 | 23.4 | 23.3 | 23.2 | 23.0 | 22.7 | 22.2 | 21.6 | 21.0 | 20.2 | 19.4 | 18.6 | 17.8 | 16.9 | 16.0 | 14.9 | 13.6 | 12.1 | 10.4 | 8.4  | 6.1  |      |
|      | 50  | 28.4 | 27.0 | 25.9 | 25.1 | 24.5 | 24.1 | 23.8 | 23.6 | 23.4 | 23.3 | 23.1 | 23.0 | 22.8 | 22.6 | 22.1 | 21.5 | 20.8 | 20.1 | 19.3 | 18.5 | 17.6 | 16.8 | 15.8 | 14.7 | 13.4 | 11.9 | 10.1 | 8.0  |      |      |      |

FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

## P Series - 18 GPM



## M Series - 25 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All M Series Stainless Steel Pump Ends come with a 1 1/2" discharge and sizes range from 1/2 to 7 1/2 horse power (HP).

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |      |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C    | D    | Pump   | Motor | Total |
| 26050M       | 1/2   | 4     | 1 1/2"      | 9.4                 | 9.5  | 18.9 | 3.82 | 5.1    | 18    | 23.1  |
| 26075M       | 3/4   | 5     | 1 1/2"      | 10.3                | 10.7 | 21   | 3.82 | 5.3    | 21    | 26.3  |
| 26100M       | 1     | 7     | 1 1/2"      | 11.9                | 11.8 | 23.7 | 3.82 | 5.9    | 23    | 28.9  |
| 26150M       | 1 1/2 | 9     | 1 1/2"      | 13.5                | 13.6 | 27.1 | 3.82 | 6.8    | 27    | 33.8  |
| 26200M       | 2     | 11    | 1 1/2"      | 15.2                | 15.1 | 30.3 | 3.82 | 8.1    | 30    | 38.1  |
| 26300M       | 3     | 15    | 1 1/2"      | 18.5                | 23.5 | 42   | 3.82 | 9.2    | 54    | 63.2  |
| 26500M       | 5     | 26    | 1 1/2"      | 27.6                | 29.5 | 57.1 | 3.82 | 14.3   | 65    | 79.3  |
| 26750M       | 7 1/2 | 39    | 1 1/2"      | 39.3                | 29.5 | 68.8 | 3.82 | 20.2   | 66    | 86.2  |

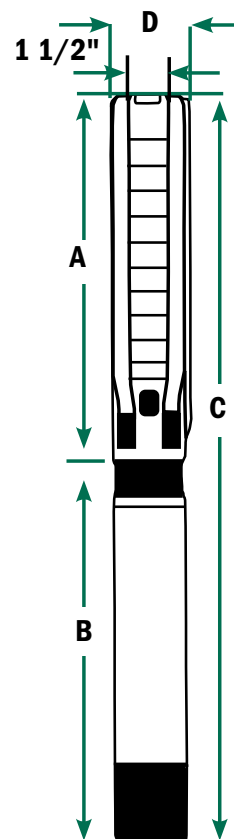


Fig. A

### Output - in Gallons Per Minute (Depth to Water)

| 1/2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' |
|--------|-----|------|------|------|------|------|
| 0      |     |      | 37.1 | 32.6 | 25.8 | 17.5 |
| 30     |     | 22.4 | 9.7  |      |      |      |
| 50     |     |      |      |      |      |      |

| 3/4 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' |
|--------|-----|------|------|------|------|------|------|------|
| 0      |     |      |      | 35.9 | 32.6 | 25.0 | 19.7 | 7.8  |
| 30     |     | 28.4 | 22.6 | 14.8 |      |      |      |      |
| 50     |     | 11.4 |      |      |      |      |      |      |

| 1 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' |
|------|-----|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      |      | 33.4 | 29.8 | 26.0 | 20.8 | 13.2 |
| 30   |     |      | 31.8 | 28.1 | 23.8 | 17.6 | 8.9  |      |      |      |
| 50   |     | 25.9 | 22.2 | 15.2 |      |      |      |      |      |      |

| 1.5 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 0      |     |      |      |      |      |      |      | 31.8 | 29.0 | 26.0 | 22.1 | 16.9 | 10.1 |
| 30     |     |      |      | 33.3 | 30.6 | 27.7 | 24.3 | 19.9 | 13.9 |      |      |      |      |
| 50     |     | 32.5 | 29.7 | 26.7 | 23.1 | 18.3 | 11.8 |      |      |      |      |      |      |

| 2 HP | PSI | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      |      |      | 32.3 | 29.9 | 27.3 | 24.5 | 21.2 | 17.3 | 12.5 |      |
| 30   |     |      |      | 33.4 | 31.2 | 28.7 | 26.0 | 23.0 | 19.5 | 15.2 | 10.1 |      |      |      |
| 50   |     | 32.8 | 30.5 | 27.9 | 25.1 | 22.0 | 18.2 | 13.7 | 8.4  |      |      |      |      |      |

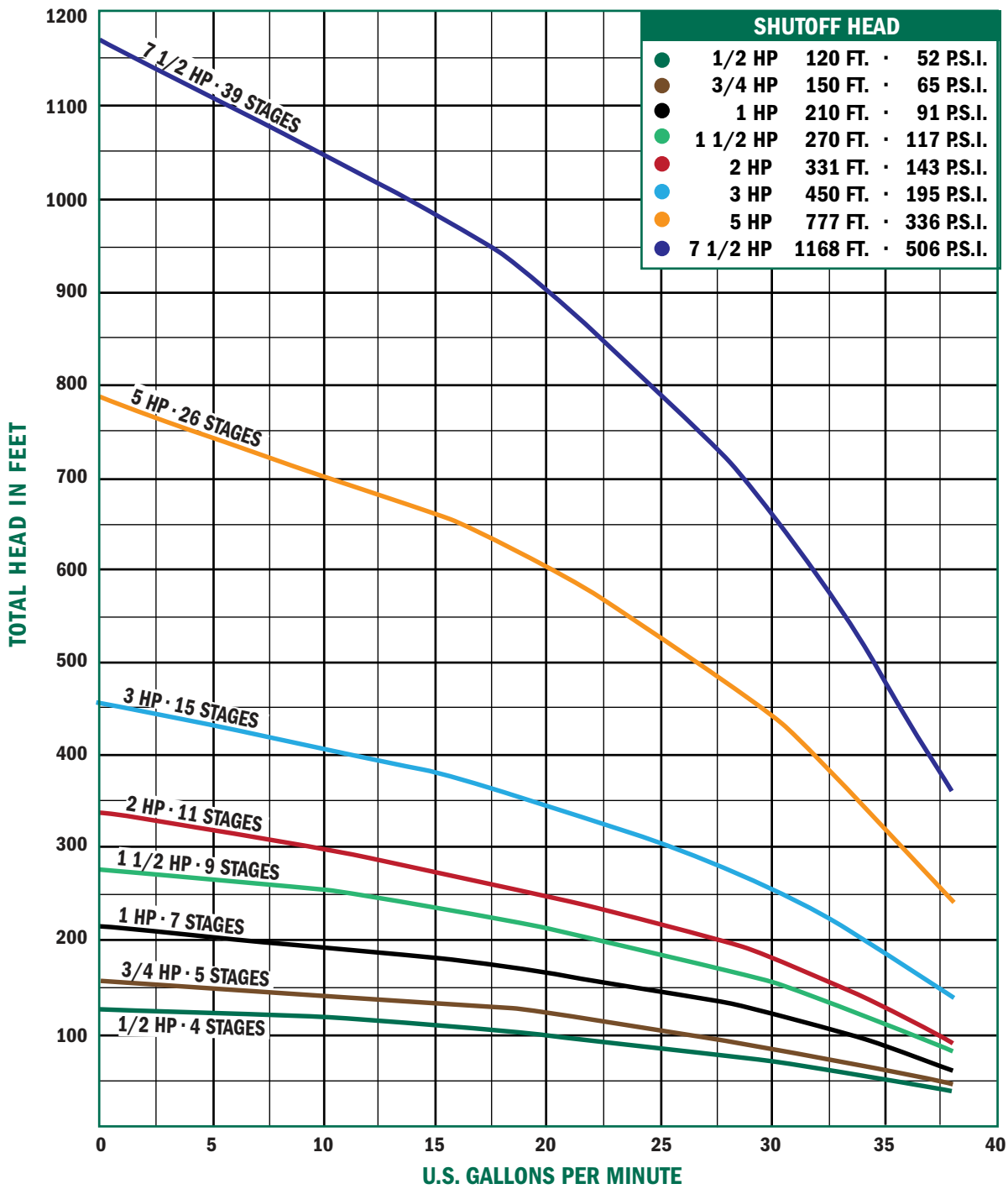
| 3 HP | PSI | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      |      |      | 32.9 | 31.3 | 29.6 | 27.9 | 26.0 | 21.2 | 14.4 |      |
| 30   |     |      |      | 33.8 | 32.2 | 30.5 | 28.8 | 27.0 | 25.0 | 22.7 | 19.9 | 16.5 | 8.0  |      |
| 50   |     | 33.3 | 31.7 | 30.0 | 28.3 | 26.4 | 24.3 | 21.9 | 18.9 | 15.3 | 11.1 |      |      |      |

| 5 HP | PSI | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' | 540' | 580' | 620' | 660' | 700' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      |      | 33.0 | 31.1 | 29.1 | 27.1 | 24.8 | 22.0 | 18.5 | 14.2 | 9.3  |
| 30   |     |      |      | 33.5 | 31.6 | 29.7 | 27.6 | 25.4 | 22.8 | 19.5 | 15.5 | 10.6 |      |      |
| 50   |     | 33.2 | 32.3 | 31.3 | 29.4 | 27.3 | 25.0 | 22.3 | 18.9 | 14.8 | 9.8  |      |      |      |

| 7.5 HP | PSI | 460' | 500' | 540' | 580' | 620' | 660' | 700' | 740' | 780' | 820' | 860' | 900' | 940' | 980' | 1020' | 1060' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 0      |     |      |      | 33.9 | 32.7 | 31.4 | 30.1 | 28.8 | 27.4 | 26.0 | 24.3 | 22.5 | 20.3 | 17.9 | 15.0 | 11.8  | 8.4   |
| 30     |     |      | 33.0 | 31.8 | 30.5 | 29.2 | 27.8 | 26.4 | 24.8 | 23.0 | 20.9 | 18.6 | 15.8 | 12.7 | 9.3  |       |       |
| 50     |     | 32.8 | 31.6 | 30.3 | 29.0 | 27.6 | 26.1 | 24.5 | 22.7 | 20.6 | 18.1 | 15.3 | 12.2 | 8.8  |      |       |       |

FRICION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

# M Series - 25 GPM



## G Series - 40 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All G Series Stainless Steel Pump Ends come with a 2" discharge and sizes range from 1 to 10 horse power (HP).

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |       |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|-------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C     | D    | Pump   | Motor | Total |
| 26100G       | 1     | 4     | 2"          | 14.4                | 11.8 | 26.2  | 3.82 | 8.2    | 23    | 31.2  |
| 26150G       | 1 1/2 | 5     | 2"          | 16.1                | 13.6 | 29.7  | 3.82 | 9.3    | 26    | 35.3  |
| 26200G       | 2     | 7     | 2"          | 19.4                | 15.1 | 34.5  | 3.82 | 11.5   | 30    | 41.5  |
| 26300G       | 3     | 9     | 2"          | 22.7                | 23.5 | 46.2  | 3.82 | 13.7   | 54    | 67.7  |
| 26500G       | 5     | 12    | 2"          | 27.7                | 29.5 | 57.2  | 3.82 | 17     | 65    | 82    |
| 26750G       | 7 1/2 | 21    | 2"          | 42.5                | 29.5 | 72    | 3.82 | 26.7   | 66    | 92.7  |
| 261000G      | 10    | 30    | 2"          | 57.6                | 44   | 101.6 | 3.82 | 37     | 120   | 157   |

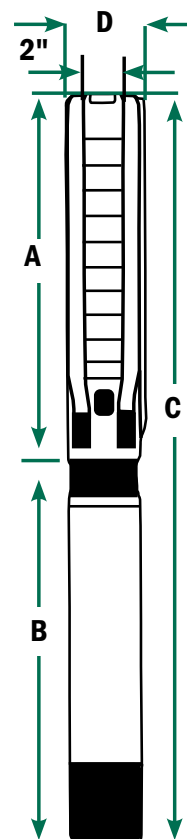


Fig. A

### Output - in Gallons Per Minute (Depth to Water)

| 1 HP | PSI | 20' | 40'  | 60'  | 80'  | 100' |
|------|-----|-----|------|------|------|------|
| 0    |     |     | 64.0 | 54.5 | 42.0 | 18.0 |
| 30   |     |     | 32.0 | 6.0  |      |      |
| 50   |     |     |      |      |      |      |

| 1.5 HP | PSI | 20' | 40'  | 60'  | 80'  | 100' | 120' |
|--------|-----|-----|------|------|------|------|------|
| 0      |     |     |      | 60.1 | 54.0 | 43.2 | 23.4 |
| 30     |     |     | 50.0 | 35.0 |      |      |      |
| 50     |     |     |      |      |      |      |      |

| 2 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' |
|------|-----|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      | 61.0 | 56.7 | 51.7 | 43.2 | 29.9 |
| 30   |     | 58.9 | 54.7 | 48.3 | 37.6 | 22.3 |      |      |      |
| 50   |     | 45.5 | 33.2 |      |      |      |      |      |      |

| 3 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      | 65.6 | 61.5 | 58.1 | 54.8 | 50.2 | 43.2 | 33.2 | 20.8 |
| 30   |     | 63.6 | 59.8 | 56.6 | 52.9 | 47.3 | 38.9 | 27.7 |      |      |      |      |
| 50   |     | 55.6 | 51.4 | 45.0 | 35.7 | 23.7 |      |      |      |      |      |      |

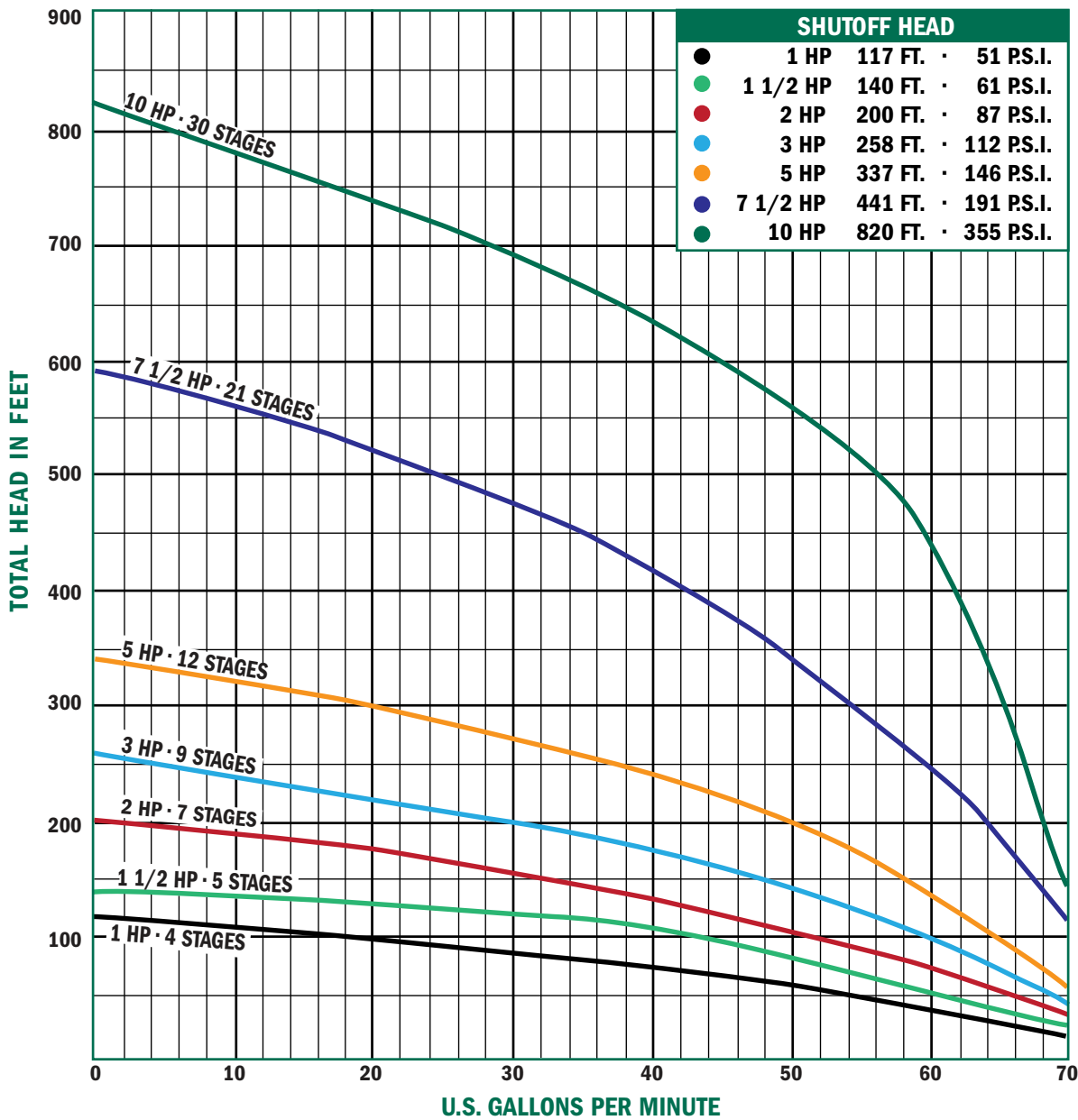
| 5 HP | PSI | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0    |     |      |      |      |      | 63.2 | 60.6 | 58.3 | 55.8 | 52.6 | 48.2 | 42.2 | 34.6 | 25.6 |      |
| 30   |     |      | 64.8 | 62.0 | 59.5 | 57.2 | 54.4 | 50.7 | 45.6 | 38.9 | 30.6 | 21.2 |      |      |      |
| 50   |     | 61.2 | 58.8 | 56.4 | 53.4 | 49.3 | 43.7 | 36.5 | 27.8 |      |      |      |      |      |      |

| 7.5 HP | PSI | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' | 460' | 500' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0      |     |      |      |      |      |      | 64.0 | 62.4 | 61.0 | 59.6 | 58.3 | 56.9 | 53.6 | 48.9 | 42.2 | 33.4 | 22.9 |      |
| 30     |     |      |      | 64.9 | 63.3 | 61.7 | 60.3 | 59.0 | 57.7 | 56.2 | 54.6 | 52.7 | 50.4 | 44.2 | 36.0 | 25.8 |      |      |
| 50     |     | 64.4 | 62.8 | 61.3 | 59.9 | 58.6 | 57.2 | 55.8 | 54.0 | 52.0 | 49.5 | 46.6 | 43.1 | 34.5 | 24.2 |      |      |      |

| 10 HP | PSI | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' |
|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0     |     | 69.5 | 68.3 | 66.8 | 65.3 | 63.9 | 62.0 | 59.5 | 56.0 | 51   | 45   | 37.5 | 28   | 17.3 | 5    |
| 30    |     | 67.8 | 66.3 | 64.6 | 63.0 | 61.1 | 58.4 | 54.3 | 49.0 | 42   | 34.5 | 24.3 | 13   |      |      |
| 50    |     | 66.4 | 64.8 | 63.2 | 61.3 | 58.9 | 55.1 | 49.8 | 43.2 | 35.6 | 25.8 | 14.4 |      |      |      |

FRICION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

G Series - 40 GPM



## H Series - 70 GPM

A.Y. McDonald offers a full line of submersible pump ends built for years of trouble free operation, with high-efficiency stainless steel impellers and diffusers. These submersibles offer peak capacity performance in 5, 10, 18, 25, 40, and 70 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, stainless steel suction screen, and stainless steel shaft and coupling.

All H Series Stainless Steel Pump Ends come with a 2" discharge and sizes range from 2 to 10 horse power (HP).

### Models Available

| Model Number | HP    | Stage | Disch. Size | Dimension in Inches |      |      |      | Weight |       |       |
|--------------|-------|-------|-------------|---------------------|------|------|------|--------|-------|-------|
|              |       |       |             | A                   | B    | C    | D    | Pump   | Motor | Total |
| 26200H       | 2     | 3     | 2"          | 14.9                | 15.1 | 30   | 3.82 | 8.2    | 30    | 38.2  |
| 26300H       | 3     | 5     | 2"          | 20                  | 23.5 | 43.5 | 3.82 | 10.4   | 54    | 64.4  |
| 26500H       | 5     | 8     | 2"          | 27.7                | 29.5 | 57.2 | 3.82 | 13.7   | 65    | 78.7  |
| 26750H       | 7 1/2 | 12    | 2"          | 37.9                | 29.5 | 67.3 | 3.82 | 18     | 66    | 84    |
| 261000H      | 10    | 16    | 2"          | 53                  | 44   | 97   | 3.82 | 29     | 120   | 149   |

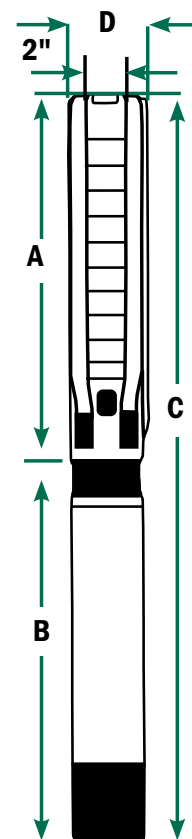


Fig. A

### Output - in Gallons Per Minute (Depth to Water)

| 2 HP | PSI  | 20'  | 40'  | 60'  | 80' |
|------|------|------|------|------|-----|
| 0    |      | 89.1 | 68.9 | 38.8 |     |
| 30   | 60.8 |      |      |      |     |
| 50   |      |      |      |      |     |

| 3 HP | PSI  | 20'  | 40'  | 60'  | 80'  | 100' | 120' |
|------|------|------|------|------|------|------|------|
| 0    |      |      | 91.1 | 78.8 | 68.9 | 51.0 |      |
| 30   | 74.1 | 61.8 | 42.1 |      |      |      |      |
| 50   | 37.1 |      |      |      |      |      |      |

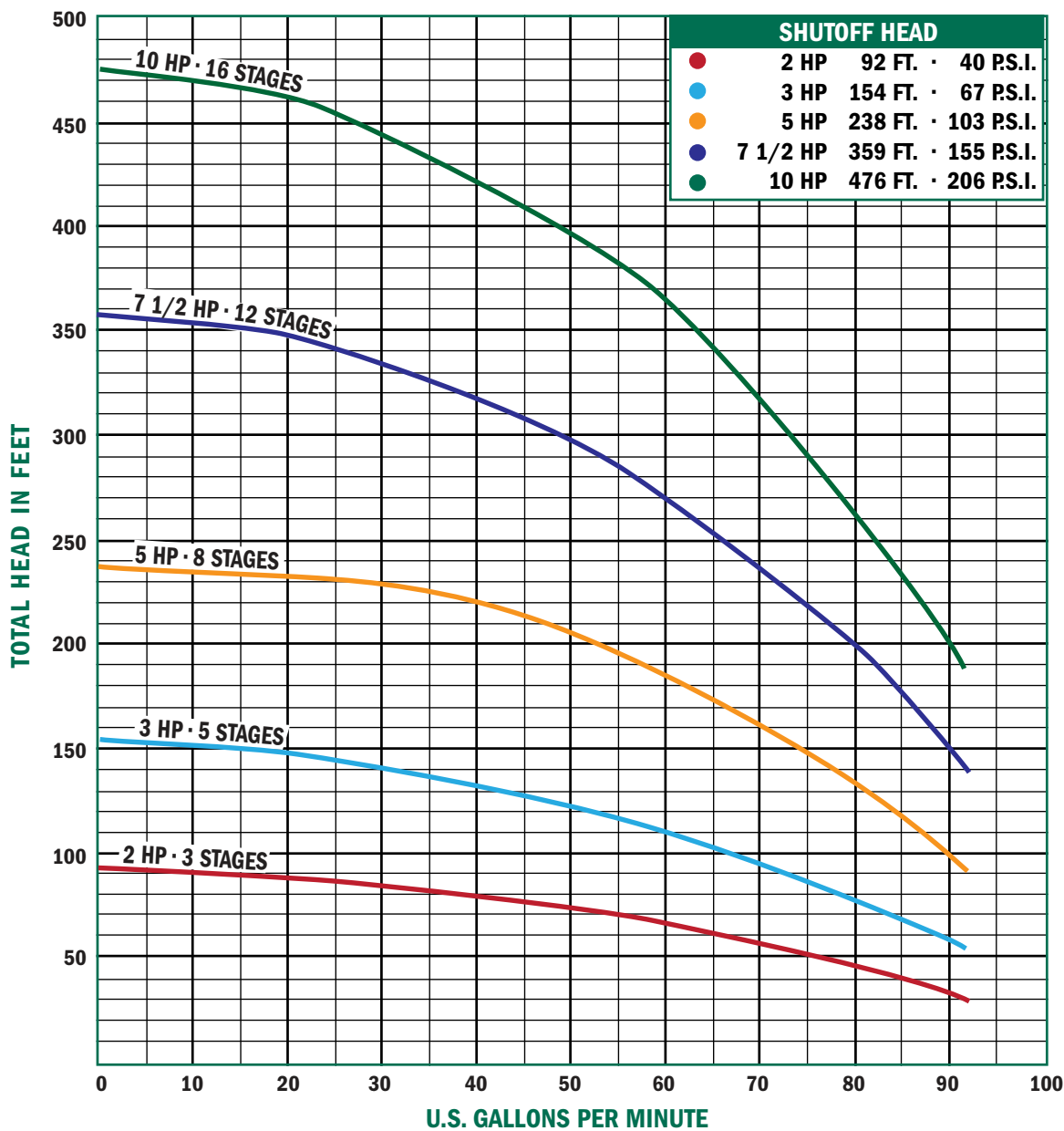
| 5 HP | PSI  | 20'  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 0    |      |      |      |      | 88.9 | 84.8 | 78.5 | 69.4 | 59.4 | 49.7 |      |
| 30   | 91.0 | 87.2 | 82.3 | 74.6 | 64.7 | 54.9 | 44.4 |      |      |      |      |
| 50   | 80.2 | 71.6 | 61.6 | 51.9 | 39.8 |      |      |      |      |      |      |

| 7.5 HP | PSI  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0      |      |      |      |      | 90.2 | 87.7 | 84.8 | 81.0 | 75.7 | 69.4 | 62.7 | 56.1 | 49.7 |      |      |
| 30     |      |      | 89.0 | 86.4 | 83.2 | 78.7 | 72.9 | 66.3 | 59.6 | 53.2 | 46.3 |      |      |      |      |
| 50     | 88.2 | 85.5 | 81.9 | 77.0 | 70.9 | 64.2 | 57.6 | 51.2 | 43.7 |      |      |      |      |      |      |

| 10 HP | PSI  | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' | 420' |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0     |      |      |      |      |      |      | 88.5 | 86.4 | 85.2 | 84.3 | 83.2 | 81.3 | 78.4 | 74.5 | 64.5 | 54.2 | 43.8 |      |
| 30    |      |      | 90.1 | 87.4 | 85.7 | 84.7 | 83.8 | 82.4 | 80.1 | 76.7 | 72.4 | 67.4 | 62.1 | 56.9 | 47.0 |      |      |      |
| 50    | 89.2 | 86.8 | 85.4 | 83.5 | 81.8 | 79.2 | 75.5 | 70.9 | 65.7 | 60.4 | 55.4 | 50.5 | 45.2 |      |      |      |      |      |

FRICITION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED

# H Series - 70 GPM





### 4" Water Well • Two Wire • Single Phase • 60 HZ

| HP    | KW  | DOWNWARD THRUST LBS | VOLTS | SERVICE FACTOR | FRANKLIN MODEL NO. | A.Y. McDONALD MODEL NO. |
|-------|-----|---------------------|-------|----------------|--------------------|-------------------------|
| 1/3   | .25 | 300                 | 115   | 1.75           | 244 502 90         | 3129-731                |
|       |     | 300                 | 230   | 1.75           | 244 503 90         | 3129-732                |
| 1/2   | .37 | 300                 | 115   | 1.60           | 244 504 90         | 3129-736                |
|       |     | 300                 | 230   | 1.60           | 244 505 90         | 3129-733                |
| 3/4   | .55 | 300                 | 230   | 1.50           | 244 507 90         | 3129-734                |
| 1     | .75 | 650                 | 230   | 1.40           | 244 508 90         | 3129-735                |
| 1 1/2 | 1.1 | 650                 | 230   | 1.30           | 244 309 90         | 3129-755                |

### 4" Water Well • Three Wire • Single Phase • 60 HZ

| HP    | KW  | DOWNWARD THRUST LBS | VOLTS | SERVICE FACTOR | FRANKLIN MODEL NO. | FRANKLIN CONTROL BOX | A.Y. McDONALD MODEL NO. | A.Y. McDONALD CONTROL BOX |
|-------|-----|---------------------|-------|----------------|--------------------|----------------------|-------------------------|---------------------------|
| 1/3   | .25 | 300                 | 115   | 1.75           | 214 502 90         | 280 102 49           | 3129-364                | 6618-116                  |
|       |     | 300                 | 230   | 1.75           | 214 503 90         | 280 103 49           | 3129-365                | 6618-117                  |
| 1/2   | .37 | 300                 | 115   | 1.60           | 214 504 90         | 280 104 49           | 3129-366                | 6618-118                  |
|       |     | 300                 | 230   | 1.60           | 214 505 90         | 280 105 49           | 3129-367                | 6618-119                  |
| 3/4   | .55 | 300                 | 230   | 1.50           | 214 507 90         | 280 107 49           | 3129-359                | 6617-110                  |
| 1     | .75 | 650                 | 230   | 1.40           | 214 508 90         | 280 108 49           | 3129-360                | 6617-111                  |
| 1 1/2 | 1.1 | 650                 | 230   | 1.30           | 224 300 92         | 282 300 81           | 3129-361                | 6617-428                  |
| 2     | 1.5 | 650                 | 230   | 1.25           | 224 301 92         | 282 301 81           | 3129-396                | 6617-113                  |

### 4" Water Well • Three Wire • Three Phase • 60 HZ

| HP    | KW  | DOWNWARD THRUST LBS | VOLTS    | SERVICE FACTOR | FRANKLIN MODEL NO. | A.Y. McDONALD MODEL NO. |
|-------|-----|---------------------|----------|----------------|--------------------|-------------------------|
| 1/2   | .37 | 300                 | 230      | 1.60           | 234 511 92         | 3129-788                |
|       |     | 300                 | 460      | 1.60           | 234 521 94         | 3129-789                |
| 3/4   | .55 | 300                 | 200      | 1.50           | 234 502 92         | 3129-853                |
|       |     | 300                 | 230      | 1.50           | 234 512 92         | 3129-790                |
|       |     | 300                 | 460      | 1.50           | 234 522 94         | 3129-791                |
| 1     | .75 | 650                 | 200      | 1.40           | 234 503 92         | 3129-856                |
|       |     | 650                 | 230      | 1.40           | 234 513 92         | 3129-792                |
|       |     | 650                 | 460      | 1.40           | 234 523 94         | 3129-793                |
| 1 1/2 | 1.1 | 650                 | 200      | 1.30           | 234 504 92         | 3129-839                |
|       |     | 650                 | 230      | 1.30           | 234 514 92         | 3129-794                |
|       |     | 650                 | 460/380* | 1.30/1.0       | 234 524 94         | 3129-795                |
|       |     | 650                 | 575      | 1.30           | 234 534 94         | 3129-869                |
| 2     | 1.5 | 650                 | 200      | 1.25           | 234 305 92         | 3129-798                |
|       |     | 650                 | 230      | 1.25           | 234 315 92         | 3129-796                |
|       |     | 650                 | 460/380* | 1.25/1.0       | 234 325 94         | 3129-797                |
|       |     | 650                 | 575      | 1.25           | 234 335 94         | 3129-855                |

Do not use motors in swimming areas

### 4" High Thrust Water Well • Three Wire • Single Phase • 60 HZ (Control Box Required)

| HP | KW  | DOWNWARD THRUST LBS | VOLTS | SERVICE FACTOR | FRANKLIN MODEL NO. | FRANKLIN CONTROL BOX | A.Y. McDONALD MODEL NO. | A.Y. McDONALD CONTROL BOX |
|----|-----|---------------------|-------|----------------|--------------------|----------------------|-------------------------|---------------------------|
| 3  | 2.2 | 900                 | 230   | 1.15           | 224 302 26         | 282 302 83           | 3129-363                | 6617-142                  |
| 3  | 2.2 | 1500                | 230   | 1.15           | 224 302 86         | 282 302 83           | 3129-880                | 6617-142                  |
| 5  | 3.7 | 1500                | 230   | 1.15           | 224 303 86         | 282 113 93           | 3129-717                | 6617-134                  |

### 4" High Thrust Water Well • Three Wire • Three Phase • 60 HZ

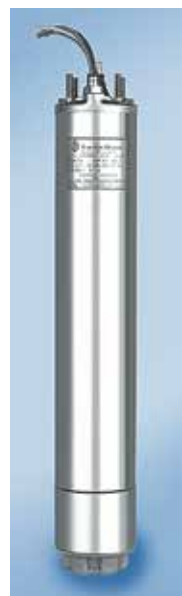
(Special Control Required • See note)

| HP    | KW  | DOWNWARD THRUST LBS | VOLTS    | SERVICE FACTOR | FRANKLIN MODEL NO. | A.Y. McDONALD MODEL NO. |
|-------|-----|---------------------|----------|----------------|--------------------|-------------------------|
| 3     | 2.2 | 900                 | 200      | 1.15           | 234 306 26         | 3129-846                |
|       |     | 900                 | 230      | 1.15           | 234 316 26         | 3129-709                |
|       |     | 900                 | 460/380* | 1.15           | 234 326 26         | 3129-807                |
|       |     | 900                 | 575      | 1.15           | 234 336 26         | 3129-868                |
| 5     | 3.7 | 1500                | 200      | 1.15           | 234 307 86         | 3129-847                |
|       |     | 1500                | 230      | 1.15           | 234 317 86         | 3129-718                |
|       |     | 1500                | 460/380* | 1.15           | 234 327 86         | 3129-808                |
|       |     | 1500                | 575      | 1.15           | 234 337 86         | 3129-835                |
| 7 1/2 | 5.5 | 1500                | 200      | 1.15           | 234 308 86         | 3129-848                |
|       |     | 1500                | 230      | 1.15           | 234 318 86         | 3129-783                |
|       |     | 1500                | 460/380* | 1.15           | 234 328 86         | 3129-784                |
|       |     | 1500                | 575      | 1.15           | 234 338 86         | 3129-866                |
| 10    | 7.5 | 1500                | 460/380* | 1.15           | 234 595 86         | 3129-785                |
|       |     | 1500                | 575      | 1.15           | 234 598 86         | 3129-883                |

**Note:**  
Franklin does not manufacture three-phase controls. Standard three-phase contactor with overload protection is required for positive motor protection.

**Warranty is void where proper overload protection is not employed.**

\*60/50 HZ., 3450/2875 RPM





### Quick Disconnect (QD)

- For use with three wire single phase submersible motors 1/3 through 1 HP

| HP  | KW  | VOLTS | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-----|-----|-------|----|-----------------------|----------------------------|
| 1/3 | .25 | 115   | 60 | 280 102 49            | 6618-116                   |
| 1/3 | .25 | 230   | 60 | 280 103 49            | 6618-117                   |
| 1/2 | .37 | 115   | 60 | 280 104 49            | 6618-118                   |
| 1/2 | .37 | 230   | 60 | 280 105 49            | 6618-119                   |
| 3/4 | .55 | 230   | 60 | 280 107 49            | 6617-110                   |
| 1   | .75 | 230   | 60 | 280 108 49            | 6617-111                   |

### Capacitor Start/Capacitor Run CRC Control Boxes

| HP  | VOLTS | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-----|-------|----|-----------------------|----------------------------|
| 1/2 | 230   | 60 | 282 405 50            | 6617-116                   |
| 3/4 | 230   | 60 | 282 407 50            | 6617-117                   |
| 1   | 230   | 60 | 282 408 50            | 6617-118                   |



### Standard Integral HP

- For use with single phase submersible motors  
1 1/2 through 5 HP

| HP    | KW  | VOLTS | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-------|-----|-------|----|-----------------------|----------------------------|
| 1 1/2 | 1.1 | 230   | 60 | 282 300 81            | 6617-428                   |
| 2     | 1.5 | 230   | 60 | 282 301 81            | 6617-113                   |
| 3     | 2.2 | 230   | 60 | 282 302 81            | 6617-114                   |
| 5     | 3.7 | 230   | 60 | 282 113 81            | 6617-133                   |

### Deluxe Integral HP Includes Magnetic Contactor

- For use with single phase submersible motors  
2 through 5 HP - 60 HZ

| HP | KW  | VOLTS | COIL INRUSH<br>CURRENT | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|----|-----|-------|------------------------|-----------------------|----------------------------|
| 2  | 1.5 | 230   | 0.22 Amps              | 282 301 83            | 6617-141                   |
| 3  | 2.2 | 230   | 0.22 Amps              | 282 302 83            | 6617-142                   |
| 5  | 3.7 | 230   | 0.22 Amps              | 282 113 93            | 6617-134                   |



### QD Pumptec

- For use with 4" single phase, three wire submersible motors 1/3 through 1 HP.

#### Protects against:

- Low yield wells - Low voltage - Power surges
- Air or gas locked pump - Drop in water level
- Clogged well screen - Broken shaft or coupling - Worn pump parts

| HP    | VOLTS | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-------|-------|----|-----------------------|----------------------------|
| 1/3-1 | 230   | 60 | 580 007 0600          | 6617-145                   |



### Pumptec - with remote reading

- For use with 4" single phase submersible motors 1/3 through 1 1/2 HP.

#### Protects against:

- Low yield wells - Low voltage
- Air or gas locked pump - Drop in water level
- Clogged well screen - Broken shaft or coupling - Worn pump parts

| HP        | VOLTS   | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-----------|---------|----|-----------------------|----------------------------|
| 1/3-1 1/2 | 115/230 | 60 | 580 002 0600          | 6617-425                   |



### Pumptec-Plus

- For use with 4" single phase submersible motors  
1/2 through 5 HP.

#### Protects against:

- Over/under load - Over/under voltage
- Low yield wells - Mud or sand clogging
- Cavitation (air lock) - Drop in water level
- Rapid cycling - Faulty check valve

| HP    | VOLTS | HZ | FRANKLIN<br>MODEL NO. | A.Y. MCDONALD<br>MODEL NO. |
|-------|-------|----|-----------------------|----------------------------|
| 1/2-5 | 230   | 60 | 580 006 0100          | 6617-143                   |

## Contactors

IEC Contactors for three phase motors

Each kit includes Nema 1 enclosure, contactor, and overload assembled with the correct voltage coil needed.



### CONTACTORS WITH 200V COIL

| A.Y. McDonald Part No. | HP    | Volts |
|------------------------|-------|-------|
| 3131-290               | 1/2   | 200   |
| 3131-291               | 3/4   | 200   |
| 3131-292               | 1     | 200   |
| 3131-293               | 1 1/2 | 200   |
| 3131-294               | 2     | 200   |
| 3131-295               | 3     | 200   |
| 3131-296               | 5     | 200   |
| 3131-297               | 7 1/2 | 200   |
| 3131-298               | 10    | 200   |
| 3131-299               | 15    | 200   |
| 3131-300               | 20    | 200   |
| 3131-301               | 25    | 200   |
| 3131-302               | 30    | 200   |

### CONTACTORS WITH 230V COIL

| A.Y. McDonald Part No. | HP    | Volts |
|------------------------|-------|-------|
| 3131-303               | 1/2   | 230   |
| 3131-304               | 3/4   | 230   |
| 3131-305               | 1     | 230   |
| 3131-306               | 1 1/2 | 230   |
| 3131-307               | 2     | 230   |
| 3131-308               | 3     | 230   |
| 3131-309               | 5     | 230   |
| 3131-310               | 7 1/2 | 230   |
| 3131-311               | 10    | 230   |
| 3131-312               | 15    | 230   |
| 3131-313               | 20    | 230   |
| 3131-314               | 25    | 230   |
| 3131-315               | 30    | 230   |

### CONTACTORS WITH 460V COIL

| A.Y. McDonald Part No. | HP    | Volts |
|------------------------|-------|-------|
| 3131-316               | 1/2   | 460   |
| 3131-317               | 3/4   | 460   |
| 3131-318               | 1     | 460   |
| 3131-319               | 1 1/2 | 460   |
| 3131-320               | 2     | 460   |
| 3131-321               | 3     | 460   |
| 3131-322               | 5     | 460   |
| 3131-323               | 7 1/2 | 460   |
| 3131-324               | 10    | 460   |
| 3131-325               | 15    | 460   |
| 3131-326               | 20    | 460   |
| 3131-327               | 25    | 460   |
| 3131-328               | 30    | 460   |
| 3131-329               | 40    | 460   |
| 3131-330               | 50    | 460   |
| 3131-331               | 60    | 460   |
| 3131-332               | 75    | 460   |

## Pump Accessories

A.Y. McDonald offers a full line of accessories to complete your pumping system.



### Silicon Bronze Check Valves Spring Loaded

400 PSI working pressure. Bronze finished body

**500SB** - FNPT x FNPT, No tappings  
3/4", 1", 1 1/4", 1 1/2", 2"

**540SB** - FNPT x FNPT, tapped 1/8" and 1/4"  
1", 1 1/4", 1 1/2", 2"

**500MS** - FNPT x MNPT, No tappings  
1" x 1 1/4", 1 1/4" x 1 1/4", 2" x 2"



### Stainless Steel Check Valves - Spring Loaded

400 PSI working pressure.

**500MSS** - FNPT x MNPT, No tappings  
1" x 1 1/4", 1 1/4" x 1 1/4"



### 400SB - Silicon Bronze Foot Valves

Perforated stainless steel strainer - Spring loaded

200 PSI working pressure  
3/4", 1", 1 1/4", 1 1/2", 2"

### 6214 - No-Lead Pressure Relief Valves

- No-Lead Brass Construction
- Composition Disc on Brass Seat
- 180°F Max. Temperature
- Field Adjusting Not Recommended

#### Sizes Available:

- 1/2", 3/4", 1" - Factory set at 75 PSI or 30 PSI
- 1 1/4", 1 1/2", 2" - Factory Set at 65 PSI or 30 PSI

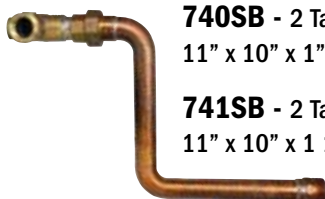
### No-Lead Elevated Tank Tees

**740SB** - 2 Taps - 3/4" x 1"

11" x 10" x 1" - Length x Height x Connection

**741SB** - 2 Taps - 1" x 1 1/4"

11" x 10" x 1 1/4" - Length x Height x Connection



1/2" - 1 1/4"



1 1/2" - 2"

## Pump Accessories

### Pipe Holder - 8871

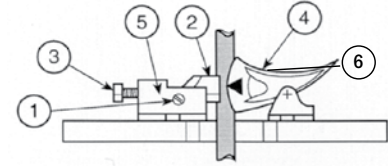
For 1", 1 1/4", 1 1/2", or 2" pipe

- Solid cast iron construction
- Time proven design
- 2000 lb. non-shock load limit



#### Pipe Holder Repair Parts

- |                                     |                           |
|-------------------------------------|---------------------------|
| 1 - 3117-612 Set screw 1/2-13 x 3/4 | 5 - 6814-234 Body Casting |
| 2 - 6814-236 Adjusting slide        | 6 - 6814-237 Pin          |
| 3 - 3117-611 Adjusting screw        | 7 - 6814-238 Wood Base    |
| 4 - 6814-235 Pipe holder dog        |                           |



### Sanitary Well Seals

Two-piece, cast iron construction. Rubber Composition Seal.

#### 459S - One Pipe

- 4" well.....1", 1 1/4"  
 4 1/2" well .....1 1/4"  
 5" well.....1", 1 1/4"  
 5 5/8" well .....1", 1 1/4"  
 6" well.....1", 1 1/4", 1 1/2"



#### 460S - Two Pipe

- 4" well.....1 1/4" x 1"  
 5" well.....1 1/4" x 1"  
 5 5/8" well .....1 1/4" x 1"  
 6" well.....1 1/2" x 1 1/4"



### Plastic Sanitary Well Seals

Two-piece, plastic construction. Rubber Composition Seal.



- |                              |                               |
|------------------------------|-------------------------------|
| 401S - 4" well..... 1"       | 453S - 4 1/2" well ... 1 1/2" |
| 402S - 4" well ..... 1 1/4"  | 501S - 5" well..... 1"        |
| 451S - 4 1/2" well..... 1"   | 601S - 6" well..... 1"        |
| 452S - 4 1/2" well... 1 1/4" | 602S - 6" well..... 1 1/4"    |
- Also available in two pipe, contact factory.

### Air Volume Controls

#### Float Types

- 893 3129-384 Shallow Well  
 894 3129-383 Deep Well



#### Diaphragm type

- 30-AV 3129-378 - 1/4"  
 42-AV 3129-388 - 1/4"  
 80-AV 3129-379 - 1/4"  
 120-AV 3129-380 - 3/8"  
 45-AV 3129-389 - 1/4"  
 100-AV 3129-386 - 3/8"  
 100F-AV 3129-390 - 3/8"  
 506JP - (3129-386 with Tube & Fittings)  
 REPAIR KITS available (see price list)



### Float & Valve

#### 8713 Float Valve

- 18" long - 3/4" or 1"  
 Repair Parts available (see price list)



#### 8715 Floats for Float Valve

- 3" x 12" diameter float



### Pressure Gauge

#### 3129-404 Pressure Gauge

- 0-100 lbs. - 2" Dial - MPT. 1/4" Brass stem.  
 Steel case, Vertical installation



For electrical accessories, please see price list.

"FSG" Pressure switches are rated to 1 1/2 HP, 115V, single phase and/or 2 HP, 230V, single phase or up to 3 HP, 230V, three phase. Submersible pumps above 2 HP, one phase require deluxe control boxes with these switches.

## Switches

#### A.Y. McDONALD MODEL NO.

| MODEL NO. | SIZE | SETTING | MODEL                    |
|-----------|------|---------|--------------------------|
| 3129-421  | 1/4" | 20-40   | (9013FSG2J20)            |
| 3129-423  | 1/4" | 30-50   | (9013FSG2J21)            |
| 3129-432  | 1/4" | 40-60   | (9013FSG2J24)            |
| 3129-442  | 1/4" | 20-40   | (9013FSG2J20C20) 20 pack |
| 3129-443  | 1/4" | 30-50   | (9013FSG2J21C20) 20 pack |
| 3129-448  | 1/4" | 40-60   | (9013FSG2J24C20) 20 pack |



Switches with "P" include pulsation plug to dampen surges to the switch

- 3129-414 1/4" 20-40 (9013FSG2J20P)  
 3129-436 1/4" 30-50 (9013FSG2J21P)

#### A.Y. McDONALD MODEL NO.

| MODEL NO.                                                                                                                                     | SIZE | SETTING | MODEL           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-----------------|
| Switches with "M4" include auto cut-off if pressure drops to about 10 PSIG below cut-in pressure - requires manual reset with lever provided. |      |         |                 |
| 3129-420                                                                                                                                      | 1/4" | 20-40   | (9013FSG2J20M4) |
| 3129-433                                                                                                                                      | 1/4" | 30-50   | (9013FSG2J21M4) |
| 3129-438                                                                                                                                      | 1/4" | 40-60   | (9013FSG2J24M4) |



Switches with "M1" include manual cut-off lever to allow circuit interruption at the switch to service the pump.

- 3129-439 1/4" 30-50 (9013FSG2J21M1)

#### A.Y. McDONALD MODEL NO.

| MODEL NO.                                                                                                                                                                                             | SIZE | SETTING | MODEL         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|---------------|
| "GSG" heavier duty switches are rated to 3 HP 230 V. Single phase and 5 HP 230 V. Three phase plus DC to 1 HP. They require use of deluxe control boxes on submersible pumps above 3 HP single phase. |      |         |               |
| 3129-430                                                                                                                                                                                              | 1/4" | 20-40   | (9013GSG2J20) |
| 3129-435                                                                                                                                                                                              | 1/4" | 30-50   | (9013GSG2J21) |
| 3129-434                                                                                                                                                                                              | 1/4" | 40-60   | (9013GSG2J24) |



#### A.Y. McDONALD MODEL NO.

| MODEL NO. | SIZE | SETTING | MODEL |
|-----------|------|---------|-------|
| 3129-457  | 1/4" | 20-40   |       |
| 3129-458  | 1/4" | 30-50   |       |
| 3129-459  | 1/4" | 40-60   |       |





A.Y. McDonald Mfg. Co. is a leading manufacturer of Waterworks Brass, Plumbing Valves, Pumps and Water Systems, and High Pressure Gas Valves and Meter Bars. The Company has distinguished itself with a proud tradition of quality and reliability since its founding in 1856.

The mission of A.Y. McDonald Mfg. Co., in the words of our founder, is “to make good products and sell them honestly.” We, the stockholders and employees, accomplish this by extending the McDonald family culture through excellent customer service and by focusing on our customers’ needs.



**WARNING:** It is unlawful in **CALIFORNIA & VERMONT** (effective 1/1/2010); **MARYLAND** (effective 1/1/2012); **LOUISIANA** (effective 1/1/2013) and the **UNITED STATES OF AMERICA** (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.

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