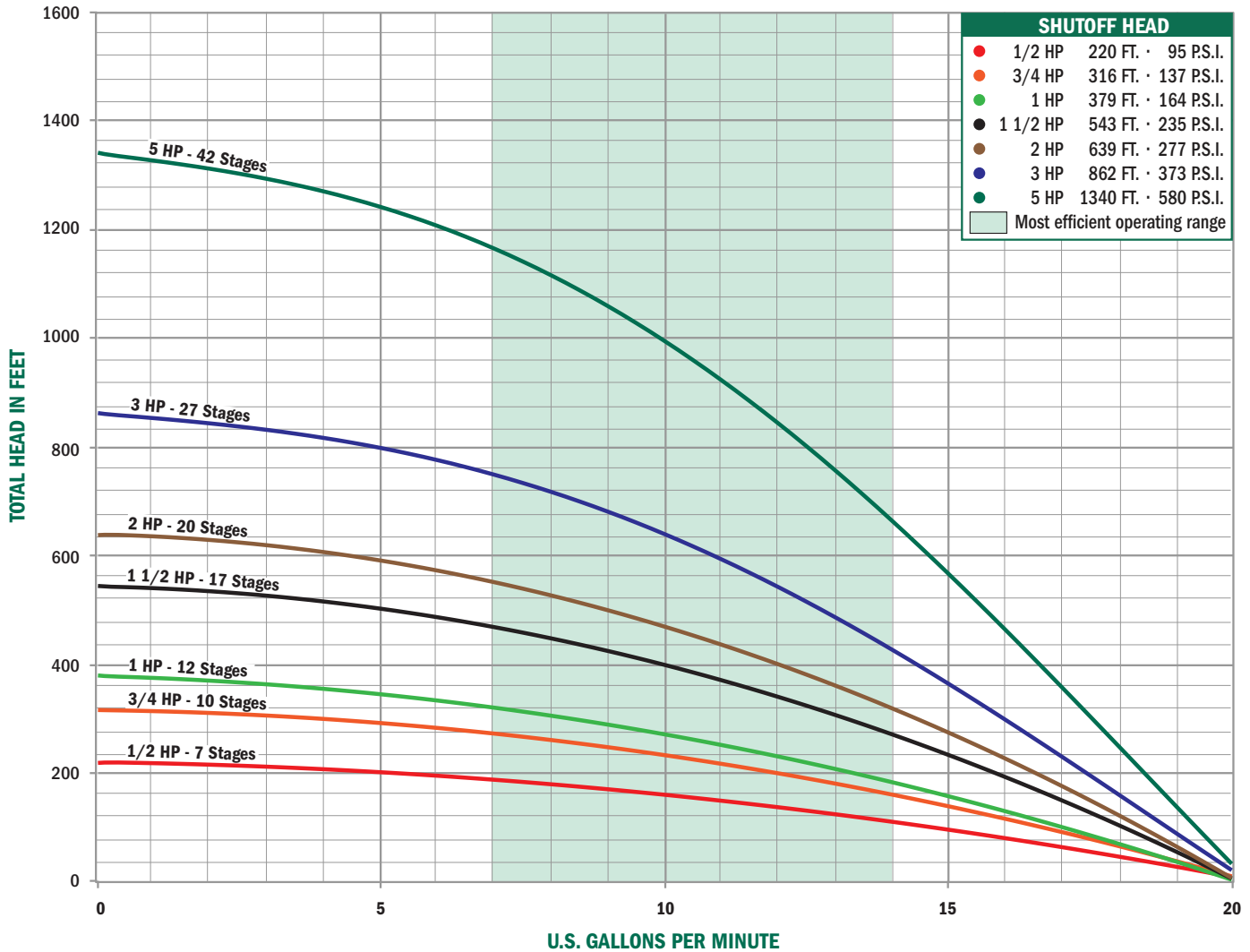


SUBMITTAL DATA SHEET

24000 Series
 4" No-Lead Stainless Steel Submersible Pumps
K - 10 GPM



All Stainless Steel Submersible Pumps are designed to pump within the 10 gallons per minute (GPM) range. Sizes are available from 1/2 to 5 HP. All models are standard with 1 1/4" NPT discharge.



NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



A.Y. McDonald Mfg. Co.
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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

SUBMITTAL DATA SHEET

24000 Series 4" No-Lead Stainless Steel Submersible Pumps K - 10 GPM



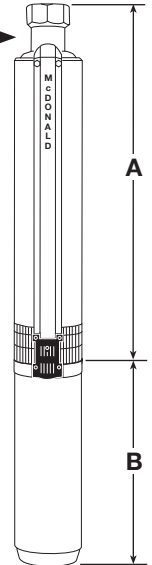
Two Wire Single Phase

| Model No. | HP | Stages | Volt | A | B | WT. |
|-----------|-------|--------|------|------|------|------|
| 24050K2A | 1/2 | 7 | 115 | 10.7 | 9.5 | 24.2 |
| 24050K2 | 1/2 | 7 | 230 | 10.7 | 9.5 | 24.2 |
| 24075K2 | 3/4 | 10 | 230 | 12.8 | 10.6 | 28.3 |
| 24100K2 | 1 | 12 | 230 | 14.1 | 11.7 | 32.0 |
| 24150K2 | 1 1/2 | 17 | 230 | 17.6 | 15.1 | 40.7 |

Three Wire Three Phase

| Model No. | HP | Stages | Volt | A | B | WT. |
|-----------|-------|--------|------|------|------|------|
| 24150K3Z | 1 1/2 | 17 | 230 | 17.6 | 11.7 | 33.7 |
| 24200K3Z | 2 | 20 | 230 | 19.6 | 13.6 | 38.8 |
| 24300K3Z | 3 | 27 | 230 | 26.0 | 16.0 | 48.3 |
| 24500K3Z | 5 | 42 | 230 | 36.1 | 23.2 | 75.0 |

Pump end discharge
1 1/4" FNPT



Three Wire** Single Phase

| Model No. | HP | Stages | Volt | A | B | WT. |
|-----------|-------|--------|------|------|------|------|
| 24050K3A | 1/2 | 7 | 115 | 10.7 | 9.5 | 25.2 |
| 24050K3 | 1/2 | 7 | 230 | 10.7 | 9.5 | 25.2 |
| 24075K3 | 3/4 | 10 | 230 | 12.8 | 10.6 | 28.3 |
| 24100K3 | 1 | 12 | 230 | 14.1 | 11.7 | 32.0 |
| 24150K3 | 1 1/2 | 17 | 230 | 17.6 | 13.6 | 37.7 |
| 24200K3 | 2 | 20 | 230 | 19.6 | 15.1 | 43.8 |
| 24300K3 | 3 | 27 | 230 | 26.0 | 19.0 | 54.3 |
| 24500K3 | 5 | 42 | 230 | 36.1 | 29.2 | 90.0 |

4" Stainless Steel Pump Ends

| Model No. | HP | WT. |
|-----------|-------|-----|
| 24050K | 1/2 | 8 |
| 24075K | 3/4 | 9 |
| 24100K | 1 | 10 |
| 24150K | 1 1/2 | 12 |
| 24200K | 2 | 15 |

3 3/4" diameter
with cable guard

** All three wire pumps are available in three phase by selecting pump end and appropriate motor and starter kit.

Output - in Gallons Per Minute (Depth to Water)

| 1/2 HP | PSI | 25' | 50' | 75' | 100' | 125' | 150' | 175' | 200' |
|--------|-----|------|------|------|------|------|------|------|------|
| | 0 | 19.2 | 17.8 | 16.3 | 14.7 | 12.9 | 10.9 | 8.5 | 5.2 |
| | 30 | 15.1 | 13.4 | 11.4 | 9.1 | 6.1 | | | |
| | 50 | 11.7 | 9.5 | 6.6 | | | | | |
| | 60 | 9.7 | 6.9 | | | | | | |

| 3/4 HP | PSI | 25' | 50' | 75' | 100' | 125' | 150' | 175' | 200' | 225' | 250' | 275' | 300' |
|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0 | 19.5 | 18.6 | 17.6 | 16.7 | 15.6 | 14.5 | 13.3 | 12.0 | 10.5 | 8.8 | 6.8 | 3.9 |
| | 30 | 16.9 | 15.9 | 14.8 | 13.6 | 12.3 | 10.9 | 9.2 | 7.3 | 4.7 | | | |
| | 50 | 14.9 | 13.8 | 12.5 | 11.1 | 9.5 | 7.6 | 5.2 | | | | | |
| | 60 | 13.9 | 12.6 | 11.2 | 9.6 | 7.8 | 5.4 | | | | | | |

| 1 HP | PSI | 25' | 50' | 75' | 100' | 125' | 150' | 175' | 200' | 225' | 250' | 275' | 300' | 325' | 350' | 375' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0 | 19.4 | 18.6 | 17.8 | 17.0 | 16.2 | 15.3 | 14.3 | 13.3 | 12.3 | 11.1 | 9.8 | 8.4 | 6.7 | 4.5 | 1.0 |
| | 30 | 17.2 | 16.4 | 15.5 | 14.6 | 13.6 | 12.5 | 11.4 | 10.1 | 8.7 | 7.1 | 5.1 | 2.1 | | | |
| | 50 | 15.6 | 14.7 | 13.7 | 12.7 | 11.5 | 10.3 | 8.9 | 7.3 | 5.4 | 2.7 | | | | | |
| | 60 | 14.8 | 13.8 | 12.8 | 11.6 | 10.4 | 9.0 | 7.5 | 5.6 | 3.0 | | | | | | |

| 1 1/2 HP | PSI | 50' | 100' | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' |
|----------|-----|------|------|------|------|------|------|------|------|------|------|
| | 0 | 19.1 | 18.1 | 17.0 | 15.8 | 14.6 | 13.2 | 11.7 | 10.0 | 7.9 | 5.2 |
| | 30 | 17.7 | 16.6 | 15.4 | 14.1 | 12.6 | 11.1 | 9.2 | 7.0 | 3.7 | |
| | 50 | 16.6 | 15.5 | 14.2 | 12.8 | 11.2 | 9.4 | 7.2 | 4.0 | | |
| | 60 | 16.1 | 14.9 | 13.5 | 12.1 | 10.4 | 8.4 | 5.9 | | | |

| 2 HP | PSI | 50' | 100' | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' | 900' | 950' | 1000' | 1050' | 1100' | 1150' | 1200' | 1250' | 1300' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | 19.3 | 18.4 | 17.5 | 16.5 | 15.5 | 14.4 | 13.3 | 12.0 | 10.6 | 9.0 | 7.1 | 4.5 | | | | | | | | | | | | | | |
| | 30 | 18.1 | 17.1 | 16.2 | 15.1 | 14.0 | 12.8 | 11.5 | 10.0 | 8.3 | 6.2 | 3.0 | | | | | | | | | | | | | | | |
| | 50 | 17.2 | 16.2 | 15.2 | 14.1 | 12.9 | 11.6 | 10.1 | 8.4 | 6.4 | 3.3 | | | | | | | | | | | | | | | | |
| | 60 | 16.8 | 15.8 | 14.7 | 13.6 | 12.3 | 10.9 | 9.4 | 7.5 | 5.1 | | | | | | | | | | | | | | | | | |

| 3 HP | PSI | 50' | 100' | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0 | 19.6 | 18.9 | 18.2 | 17.4 | 16.7 | 16.0 | 15.2 | 14.4 | 13.6 | 12.8 | 11.9 | 10.9 | 9.8 | 8.5 | 7.0 | 4.9 | 1.4 |
| | 30 | 18.6 | 17.9 | 17.2 | 16.4 | 15.7 | 14.9 | 14.1 | 13.3 | 12.4 | 11.5 | 10.5 | 9.3 | 8.0 | 6.3 | 3.8 | | |
| | 50 | 17.9 | 17.2 | 16.5 | 15.8 | 15.0 | 14.2 | 13.4 | 12.5 | 11.6 | 10.5 | 9.4 | 8.1 | 6.4 | 4.1 | | | |
| | 60 | 17.6 | 16.9 | 16.2 | 15.4 | 14.6 | 13.8 | 13.0 | 12.1 | 11.2 | 10.0 | 8.8 | 7.4 | 5.5 | | | | |

FRICION LOSSES IN RISER PIPE
HAVE NOT BEEN CALCULATED

| 5 HP | PSI | 50' | 100' | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' | 900' | 950' | 1000' | 1050' | 1100' | 1150' | 1200' | 1250' | 1300' |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | 19.8 | 19.4 | 18.9 | 18.5 | 18.0 | 17.5 | 17.1 | 16.6 | 16.1 | 15.7 | 15.2 | 14.7 | 14.2 | 13.6 | 13.1 | 12.5 | 11.9 | 11.3 | 10.6 | 9.9 | 9.2 | 8.3 | 7.3 | 6.2 | 4.7 | 2.7 |
| | 30 | 19.2 | 18.7 | 18.3 | 17.8 | 17.4 | 16.9 | 16.4 | 16.0 | 15.5 | 15.0 | 14.5 | 14.0 | 13.4 | 12.9 | 12.3 | 11.7 | 11.1 | 10.4 | 9.6 | 8.8 | 7.9 | 6.9 | 5.7 | 4.0 | 1.5 | |
| | 50 | 18.8 | 18.3 | 17.9 | 17.4 | 16.9 | 16.5 | 16.0 | 15.5 | 15.0 | 14.5 | 14.0 | 13.5 | 12.9 | 12.3 | 11.7 | 11.1 | 10.4 | 9.7 | 8.9 | 8.0 | 7.0 | 5.8 | 4.2 | | | |
| | 60 | 18.6 | 18.1 | 17.6 | 17.2 | 16.7 | 16.2 | 15.8 | 15.3 | 14.8 | 14.3 | 13.8 | 13.2 | 12.7 | 12.1 | 11.5 | 10.8 | 10.1 | 9.3 | 8.5 | 7.6 | 6.5 | 5.1 | 3.2 | | | |

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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Submitted by: