

## 4" submersible pumps



*The Professional Grade KSS-Series 4" Submersible offers ALL stainless steel construction and delivers smooth, quiet operation. Proven, superior corrosion resistance to harsh water conditions and the damaging effects of sand ensure a longer service life.*

*The KSS-Series offers the water systems professional a wide range of horsepower ratings and flow rates (5, 10, 16, 25, 40 and 75 GPM). Models available in: 2- and 3-wire; assembled motor/pump or pump-end only; 1/2 – 10 HP; and single- and three-phase voltages.*

### APPLICATIONS

- **Water systems...** for residential, commercial, irrigation and farm use.

### SPECIFICATIONS

- Discharge** – Stainless steel 304 grade
- Check Valve** – Stainless steel 304 grade
- Check Valve Seat** – Stainless steel 304 grade, NBR
- Upper Shaft Bearing** – Stainless steel 304 grade, NBR
- Impellers** – Stainless steel 304 grade
- Diffusers** – Stainless steel 304 grade
- Neck Ring** – Stainless steel 304 grade, NBR
- Split Cone** – Stainless steel 304 grade, NBR
- Strap and Hardware** – Stainless steel 304 grade
- Shaft and Coupling** – 5, 10, 16 and 25 GPM: Stainless steel 304/303 grade; 40 and 75 GPM: Stainless steel 431/416 grade
- Suction/Motor Bracket** – Stainless steel 304 grade
- Intake Screen** – Stainless steel 304 grade
- Cable Guard** – Stainless steel 304 grade

# KSS-series

## STAINLESS STEEL

### FEATURES

- All Stainless Steel Construction** – Excellent corrosion resistance and superior durability for longer-lasting operation.
- Heavy-duty Pump Discharge** – 300 grade stainless steel with positive-seating internal check valve and a smooth-finish safety rope hook.
- Quality, Industry-proven 300-Grade Stainless Steel Internals** –
  - Heavy-duty pressed and pinned shaft/coupling.
  - Precision stamped and welded impellers and diffusers deliver smooth, quiet performance. Corrosion-resistant construction extends service life.
  - Rugged internal suction screen.
- Heavy-walled Cable Guard** – Strong protection, easy to assemble.
- Pumps for Almost Any Application** – 1/2 to 10 HP; 2- and 3-wire; single- and three-phase; 5, 10, 16, 25, 40 and 75 GPM Series.



# 4" submersible pumps

## ORDERING INFORMATION – ASSEMBLED PUMP

| GPM    | Motor Type | HP    | Stages | Phase | Volt | Catalog Number  | Length Inches† | Weight Pounds† |
|--------|------------|-------|--------|-------|------|-----------------|----------------|----------------|
| 5 GPM  | 2          | 1/2   | 13     | 1     | 230  | 5KSS05221       | 26-3/8         | 29             |
|        | 3          | 1/2   | 13     | 1     | 230  | 5KSS05231       | 26-3/8         | 29             |
|        | 2          | 3/4   | 18     | 1     | 230  | 5KSS07221       | 31-1/2         | 33             |
|        | 3          | 3/4   | 18     | 1     | 230  | 5KSS07231       | 31-1/2         | 33             |
|        | 2          | 1     | 22     | 1     | 230  | 5KSS10221       | 36-1/4         | 38             |
|        | 3          | 1     | 22     | 1     | 230  | 5KSS10231       | 36-1/4         | 38             |
|        | 2          | 1-1/2 | 31     | 1     | 230  | 5KSS15221       | 45-1/8         | 45             |
|        | 3          | 1-1/2 | 31     | 1     | 230  | 5KSS15231       | 43-1/8         | 45             |
|        | 3          | 2     | 39     | 1     | 230  | 5KSS20-230-3W   | 55-3/4         | 55             |
|        | 3          | 3     | 48     | 1     | 230  | 5KSS30-230-3W   | 73-5/8         | 82             |
| 10 GPM | 2          | 1/2   | 9      | 1     | 115  | 10KSS05121      | 23             | 25             |
|        | 2          | 1/2   | 9      | 1     | 230  | 10KSS05221      | 23             | 25             |
|        | 3          | 1/2   | 9      | 1     | 230  | 10KSS05231      | 23             | 25             |
|        | 2          | 3/4   | 12     | 1     | 230  | 10KSS07221      | 26-1/2         | 29             |
|        | 3          | 3/4   | 12     | 1     | 230  | 10KSS07231      | 26-1/2         | 29             |
|        | 2          | 1     | 15     | 1     | 230  | 10KSS10221      | 30-1/2         | 33             |
|        | 3          | 1     | 15     | 1     | 230  | 10KSS10231      | 30-1/2         | 33             |
|        | 2          | 1-1/2 | 21     | 1     | 230  | 10KSS15221      | 39             | 43             |
|        | 3          | 1-1/2 | 21     | 1     | 230  | 10KSS15231      | 37             | 40             |
|        | 3          | 2     | 27     | 1     | 230  | 10KSS20-230-3W  | 45-3/8         | 46             |
|        | 3          | 3     | 34     | 1     | 230  | 10KSS30-230-3W  | 59-3/4         | 74             |
|        | 3          | 3     | 48     | 1     | 230  | 10KSS50-230-3W  | 77-5/8         | 98             |
| 16 GPM | 2          | 1/2   | 5      | 1     | 115  | 16KSS05121      | 21-3/4         | 23             |
|        | 2          | 1/2   | 5      | 1     | 230  | 16KSS05221      | 21-3/4         | 23             |
|        | 3          | 1/2   | 5      | 1     | 230  | 16KSS05231      | 21-3/4         | 23             |
|        | 2          | 3/4   | 8      | 1     | 230  | 16KSS07221      | 23-3/4         | 27             |
|        | 3          | 3/4   | 8      | 1     | 230  | 16KSS07231      | 23-3/4         | 27             |
|        | 2          | 1     | 10     | 1     | 230  | 16KSS10221      | 28-3/8         | 31             |
|        | 3          | 1     | 10     | 1     | 230  | 16KSS10231      | 28-3/8         | 31             |
|        | 2          | 1-1/2 | 14     | 1     | 230  | 16KSS15221      | 33-1/8         | 42             |
|        | 3          | 1-1/2 | 14     | 1     | 230  | 16KSS15231      | 31-1/8         | 39             |
|        | 3          | 2     | 18     | 1     | 230  | 16KSS20-230-3W  | 36             | 42             |
|        | 3          | 3     | 24     | 1     | 230  | 16KSS30-230-3W  | 49-1/2         | 67             |
|        | 3          | 3     | 38     | 1     | 230  | 16KSS50-230-3W  | 69-3/8         | 93             |
| 25 GPM | 2          | 1     | 7      | 1     | 230  | 25KSS10221      | 23-7/8         | 31             |
|        | 3          | 1     | 7      | 1     | 230  | 25KSS10231      | 23-7/8         | 31             |
|        | 2          | 1-1/2 | 9      | 1     | 230  | 25KSS15221      | 29             | 39             |
|        | 3          | 1-1/2 | 9      | 1     | 230  | 25KSS15231      | 27             | 36             |
|        | 3          | 2     | 11     | 1     | 230  | 25KSS20-230-3W  | 30-1/4         | 39             |
|        | 3          | 3     | 15     | 1     | 230  | 25KSS30-230-3W  | 42             | 62             |
|        | 3          | 5     | 26     | 1     | 230  | 25KSS50-230-3W  | 57-1/8         | 84             |
|        | 3          | 7-1/2 | 39     | 3     | 230  | 25KSS75-230-3PH | 71             | 88             |

Length and weight are approximate.



# 4" submersible pumps

## ORDERING INFORMATION – ASSEMBLED PUMP (CONT'D)

| GPM    | Motor Type | HP    | Stages | Phase | Volt | Catalog Number   | Length Inches <sup>†</sup> | Weight Pounds <sup>†</sup> |
|--------|------------|-------|--------|-------|------|------------------|----------------------------|----------------------------|
| 40 GPM | 2          | 1     | 3      | 1     | 230  | 40KSS10221       | 24-7/8                     | 32                         |
|        | 3          | 1     | 3      | 1     | 230  | 40KSS10231       | 24-7/8                     | 32                         |
|        | 2          | 1-1/2 | 5      | 1     | 230  | 40KSS15221       | 31-3/4                     | 42                         |
|        | 3          | 1-1/2 | 5      | 1     | 230  | 40KSS15231       | 29-3/4                     | 39                         |
|        | 3          | 2     | 7      | 1     | 230  | 40KSS20-230-3W   | 34-1/2                     | 43                         |
|        | 3          | 3     | 9      | 1     | 230  | 40KSS30-230-3W   | 46-3/8                     | 68                         |
|        | 3          | 5     | 15     | 1     | 230  | 40KSS50-230-3W   | 62-1/4                     | 92                         |
|        | 3          | 7-1/2 | 25     | 3     | 230  | 40KSS75-230-3W   | 77-2/5                     | 99                         |
| 75 GPM | 3          | 10    | 30     | 3     | 230  | 40KSS100-230-3W  | 101-1/2                    | 160                        |
|        | 3          | 2     | 3      | 1     | 230  | 75KSS20-230-3W   | 28-3/5                     | 37                         |
|        | 3          | 3     | 5      | 1     | 230  | 75KSS30-230-3W   | 42-1/5                     | 59                         |
|        | 3          | 5     | 8      | 1     | 230  | 75KSS50-230-3W   | 56                         | 78                         |
|        | 3          | 7-1/2 | 12     | 3     | 230  | 75KSS75-230-3PH  | 66-1/5                     | 82                         |
|        | 3          | 10    | 17     | 3     | 230  | 75KSS100-230-3PH | 94-7/10                    | 66.9                       |

## ORDERING INFORMATION – PUMP END

| GPM    | HP    | Stages | Catalog Number | Length Inches <sup>†</sup> | Weight Pounds <sup>†</sup> |
|--------|-------|--------|----------------|----------------------------|----------------------------|
| 5 GPM  | 2     | 39     | L5KSS20S       | 40-4/5                     | 25                         |
|        | 3     | 48     | L5KSS30S       | 50-1/10                    | 30                         |
| 10 GPM | 2     | 27     | L10KSS20S      | 30-2/5                     | 16                         |
|        | 3     | 34     | L10KSS30S      | 36-3/10                    | 22                         |
| 16 GPM | 2     | 18     | L16KSS20S      | 21                         | 12                         |
|        | 3     | 24     | L16KSS30S      | 26                         | 15                         |
| 25 GPM | 2     | 11     | L25KSS20S      | 15-3/10                    | 9                          |
|        | 3     | 15     | L25KSS30S      | 18-1/2                     | 10                         |
|        | 5     | 26     | L25KSS50S      | 27-3/5                     | 15                         |
|        | 7-1/2 | 39     | L25KSS75S      | 42-4/5                     | 24                         |
| 40 GPM | 2     | 7      | L40KSS20S      | 15                         | 13                         |
|        | 3     | 9      | L40KSS30S      | 20                         | 16                         |
|        | 5     | 15     | L40KSS50S      | 27-4/5                     | 23                         |
|        | 7-1/2 | 25     | L40KSS75S      | 38                         | 35                         |
|        | 10    | 30     | L40KSS100S     | 50-4/5                     | 40                         |
| 75 GPM | 2     | 3      | L75KSS20S      | 15                         | 8                          |
|        | 3     | 5      | L75KSS30S      | 20                         | 10                         |
|        | 5     | 8      | L75KSS50S      | 27-4/5                     | 14                         |
|        | 7-1/2 | 12     | L75KSS75S      | 38                         | 18                         |
|        | 10    | 17     | L75KSS100S     | 50-4/5                     | 23                         |

Length and weight are approximate.

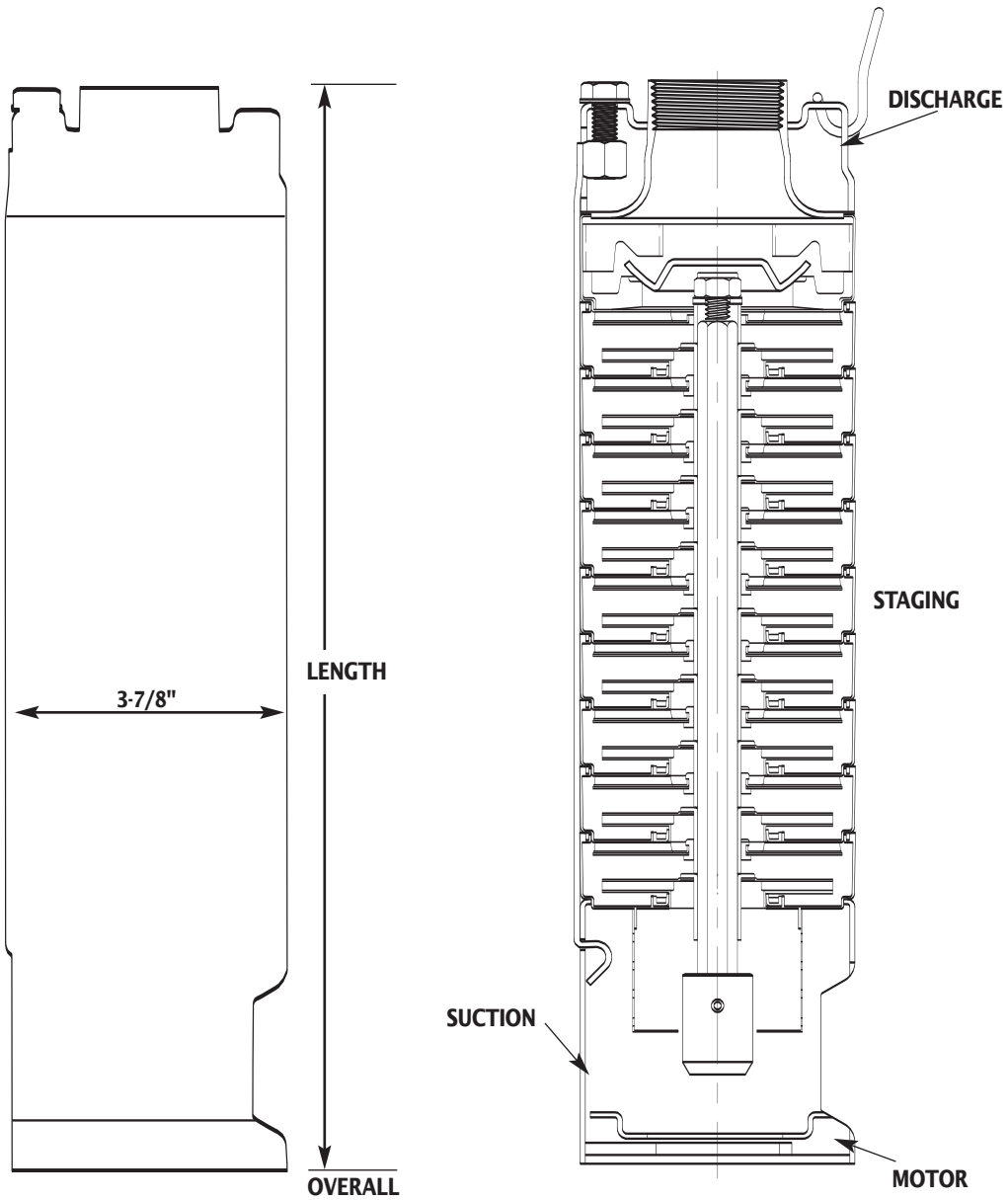


# 4" submersible pumps

| PUMP PERFORMANCE (Capacity in Gallons Per Minute) |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|-----|
| HP  | Pumping Depth in Feet |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Shutoff Head |     |
|   | 20'                   | 40'  | 60'  | 80'  | 100' | 120' | 140' | 160' | 180' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' | 900' | 950' | Feet         | PSI |
| <b>5 GPM</b>                                      |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1/2   | 7.5                   | 7.0  | 6.5  | 6.0  | 5.8  | 5.3  | 4.8  | 4.5  | 3.8  | 3.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3/4   |                       | 7.8  | 7.5  | 7.3  | 6.8  | 6.5  | 6.3  | 6.0  | 5.8  | 5.3  | 4.5  | 3.5  |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1   |                       |      | 8.0  | 7.8  | 7.5  | 7.3  | 7.0  | 6.8  | 6.5  | 6.2  | 5.5  | 4.9  | 4.3  | 3.3  |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1-1/2   |                       |      |      |      | 7.8  | 7.5  | 7.3  | 7.0  | 6.8  | 6.5  | 6.0  | 5.5  | 5.0  | 4.4  | 3.6  | 3.0  |      |      |      |      |      |      |      |      |      |              |     |
| 2   |                       |      |      |      |      |      | 8.0  | 7.8  | 7.7  | 7.5  | 7.2  | 6.8  | 6.5  | 6.2  | 5.8  | 5.4  | 5.0  | 4.5  | 4.2  | 3.8  | 3.3  |      |      |      |      |              |     |
| 3   |                       |      |      |      |      |      |      |      |      | 8.0  | 7.8  | 7.5  | 7.3  | 6.8  | 6.5  | 6.3  | 6.0  | 5.7  | 5.4  | 5.2  | 4.8  | 4.5  | 4.2  | 3.8  | 3.5  |              |     |
| <b>10 GPM</b>                                     |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1/2   | 13.0                  | 12.1 | 11.1 | 9.5  | 8.0  | 6.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3/4   |                       |      | 13.0 | 12.0 | 11.2 | 10.6 | 9.5  | 8.5  | 7.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1   |                       |      |      |      |      | 12.7 | 12.0 | 11.1 | 10.3 | 9.3  | 7.2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1-1/2   |                       |      |      |      |      |      |      |      | 13.0 | 12.2 | 11.2 | 9.8  | 8.3  | 6.2  |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 2   |                       |      |      |      |      |      |      |      |      |      | 12.5 | 11.4 | 10.7 | 9.4  | 8.0  | 6.3  |      |      |      |      |      |      |      |      |      |              |     |
| 3   |                       |      |      |      |      |      |      |      |      |      |      | 12.5 | 12.0 | 11.2 | 10.5 | 9.6  | 8.9  | 8.0  | 6.9  | 5.7  |      |      |      |      |      |              |     |
| 5   |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.4 | 12.0 | 11.4 | 11.0 | 10.4 | 9.8  | 9.0  | 8.2  |      |      |              |     |
| <b>10 GPM</b>                                     |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1/2   | 16.0                  | 12.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3/4   |                       | 20.0 | 18.0 | 15.5 | 12.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1   |                       |      | 20.5 | 19.0 | 17.0 | 16.0 | 14.0 | 11.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1-1/2   |                       |      |      |      |      | 20.0 | 19.0 | 17.5 | 16.3 | 12.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 2   |                       |      |      |      |      |      | 20.0 | 19.0 | 17.0 | 14.5 | 11.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3   |                       |      |      |      |      |      |      |      | 20.5 | 19.3 | 18.0 | 16.0 | 14.0 | 11.5 |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 5   |                       |      |      |      |      |      |      |      |      |      |      |      | 20.5 | 19.5 | 18.8 | 18.0 | 17.0 | 15.8 | 14.5 | 13.0 | 11.0 |      |      |      |      |              |     |
| <b>25 GPM</b>                                     |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3/4   | 18.0                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1   | 30.5                  | 27.5 | 23.0 | 16.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1-1/2   |                       |      | 30.5 | 28.0 | 24.5 | 19.5 | 14.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 2   |                       |      |      | 31.0 | 29.0 | 26.5 | 23.5 | 20.0 | 15.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3   |                       |      |      |      |      | 31.0 | 29.5 | 28.0 | 26.0 | 19.5 | 14.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 5   |                       |      |      |      |      |      |      |      |      |      |      | 30.5 | 28.0 | 25.0 | 21.5 | 17.0 |      |      |      |      |      |      |      |      |      |              |     |
| 7-1/2   |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 30.5 | 28.5 | 27.0 | 25.0 | 22.5 | 20.0 | 16.5 |      |      |      |              |     |
| <b>40 GPM</b>                                     |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 1-1/2   | 35.0                  | 16.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 2   | 52.5                  | 45.5 | 35.5 | 20.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3   |                       |      | 50.0 | 44.0 | 35.0 | 23.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 5   |                       |      |      |      |      |      | 55.0 | 53.0 | 50.0 | 41.0 | 22.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 7-1/2   |                       |      |      |      |      |      |      |      |      |      |      | 54.5 | 50.5 | 45.5 | 39.5 | 31.0 | 19.0 |      |      |      |      |      |      |      |      |              |     |
| 10  |                       |      |      |      |      |      |      |      |      |      |      |      |      | 51.0 | 47.0 | 43.5 | 36.0 | 27.0 | 18.0 |      |      |      |      |      |      |              |     |
| <b>75 GPM</b>                                     |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 3   | 55.0                  | 39.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 5   | 86.0                  | 81.5 | 76.5 | 69.5 | 60.0 | 44.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 7-1/2   |                       |      |      | 88.0 | 85.0 | 81.5 | 77.0 | 73.0 | 66.5 | 58.0 | 34.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |     |
| 10  |                       |      |      |      |      |      | 88.0 | 86.0 | 83.5 | 81.5 | 74.0 | 62.5 | 45.5 |      |      |      |      |      |      |      |      |      |      |      |      |              |     |

## 4" submersible pumps

### OUTLINE DIMENSIONS

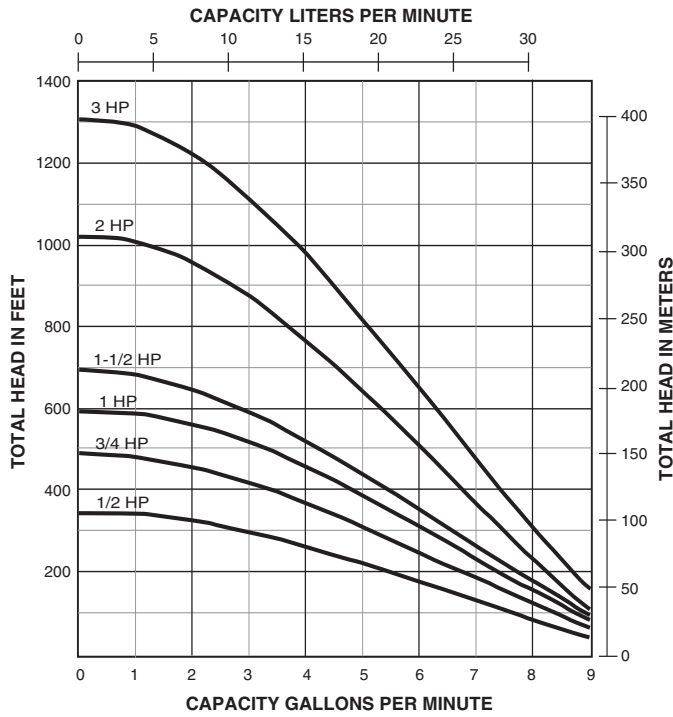


| DISCHARGE |       |
|-----------|-------|
| GPM       | NPT   |
| 5         | 1-1/4 |
| 10        | 1-1/4 |
| 16        | 1-1/4 |
| 25        | 1-1/2 |
| 40        | 2     |
| 75        | 2     |

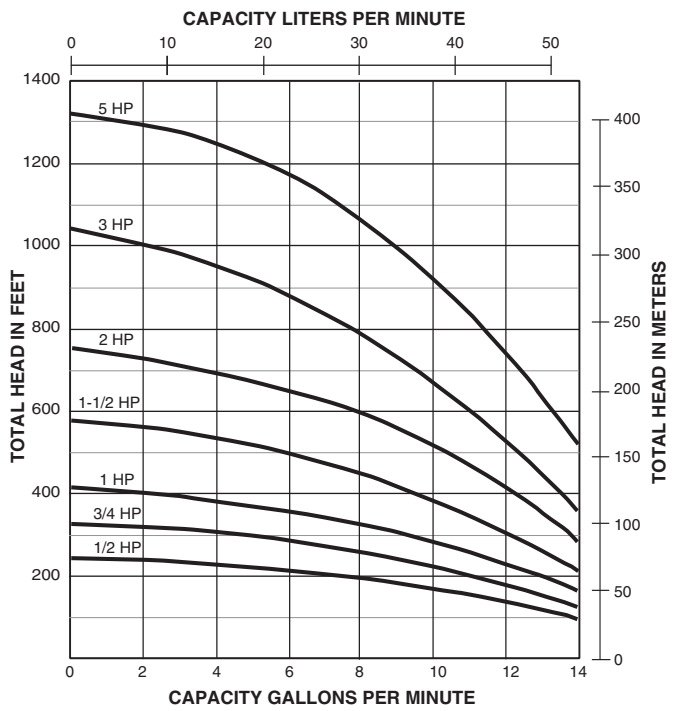
Dimensions (in inches) are for estimating purposes only.

## 4" submersible pumps

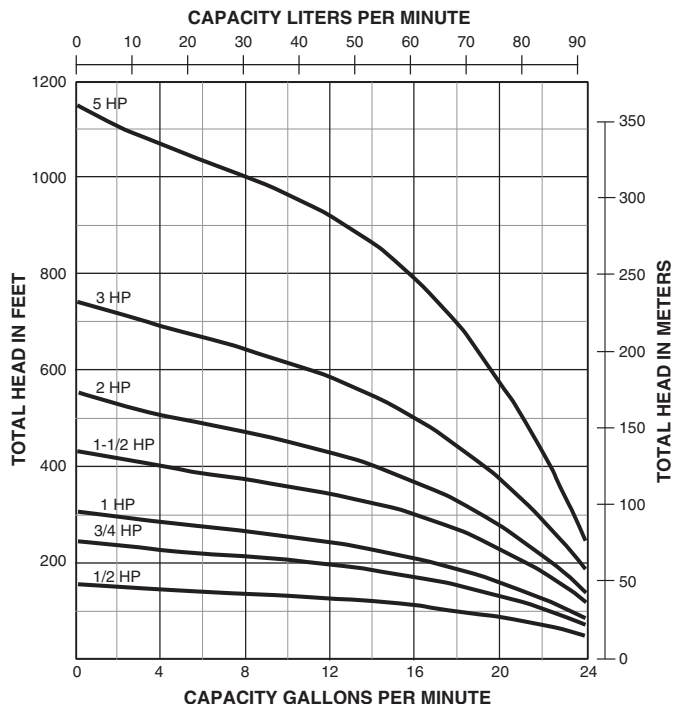
**PUMP PERFORMANCE - 5 GPM**



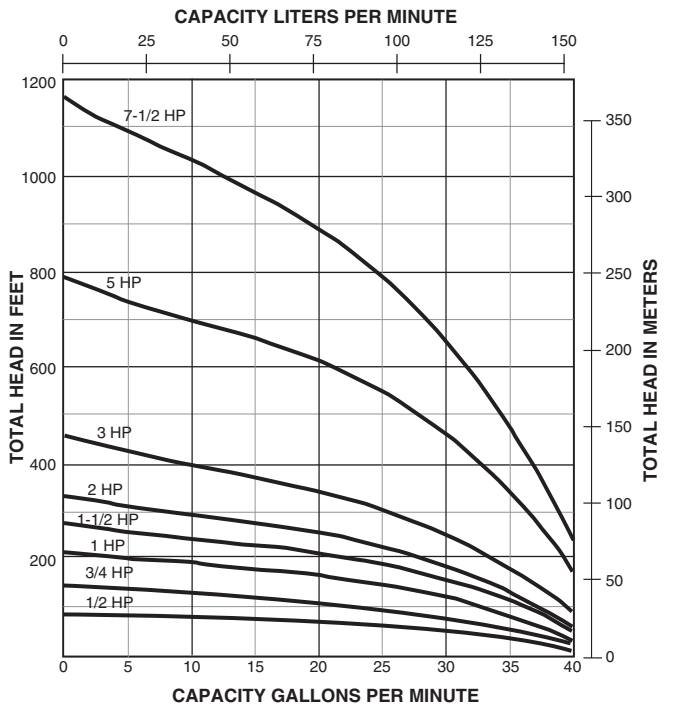
**PUMP PERFORMANCE - 10 GPM**



**PUMP PERFORMANCE - 16 GPM**

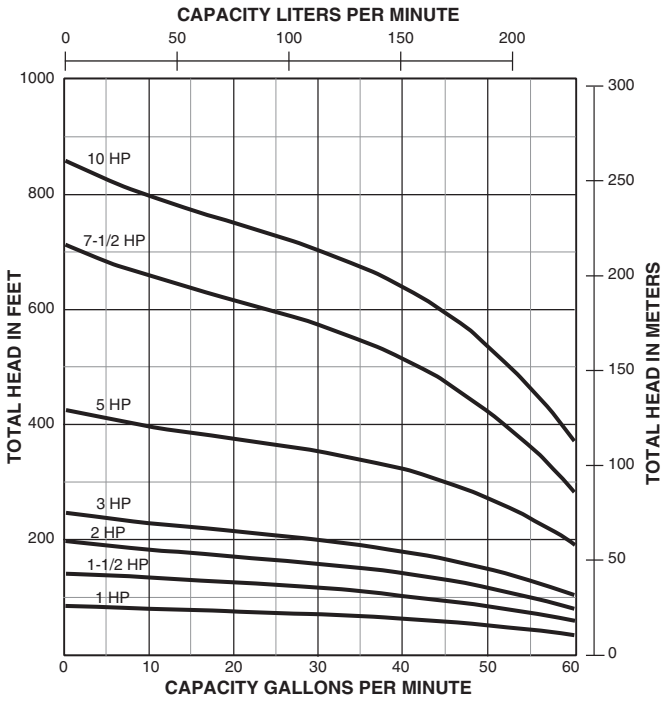


**PUMP PERFORMANCE - 25 GPM**

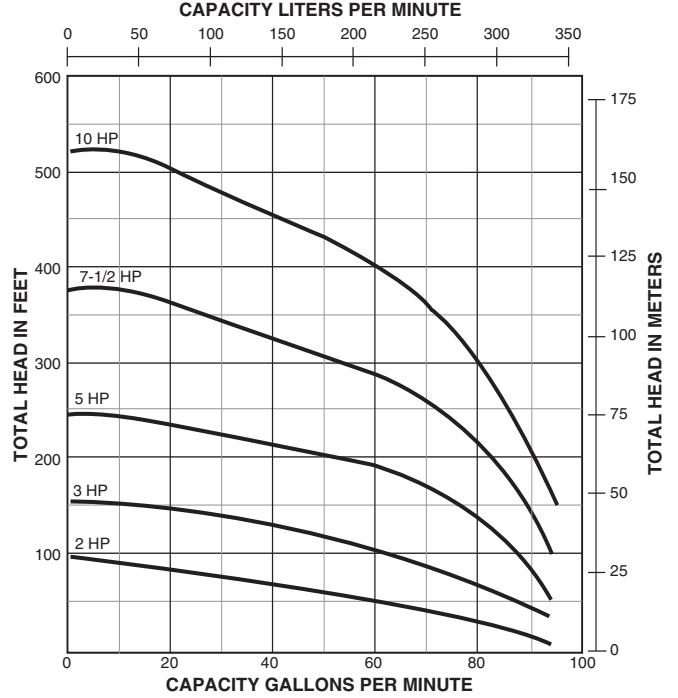


## 4" submersible pumps

**PUMP PERFORMANCE – 40 GPM**



**PUMP PERFORMANCE – 75 GPM**



# **KSS-series**

## **4" submersible pumps**

