

Ranger 50 GPM Series

Stainless Steel 4" Hi-Flo Submersible Pumps



APPLICATIONS

Water Systems...for residential, industrial, commercial, multiple housing, and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT Threads

Top Bearing: Nylatron®

Top Bearing Journal: 300 grade stainless steel

Diffuser Assembly: Noryl® (20% glass filled)

Impellers: Noryl (20% glass filled)

Bowls: Noryl (20% glass filled)

Diffuser Bearing: Nylatron

Diffuser Bearing Journal: 300 grade stainless steel

Shaft: 300 grade stainless steel, 7/16" hex stock

Coupling: 300 grade stainless steel

Shell: 300 grade stainless steel

Motor Adapter: 300 grade stainless steel

Suction Screen: 300 grade stainless steel

Cable Guard: 300 grade stainless steel

Fastener: 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Self-lubricated top bearing ensures long bearing life.

Impellers: 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

Diffuser Bearing: Bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

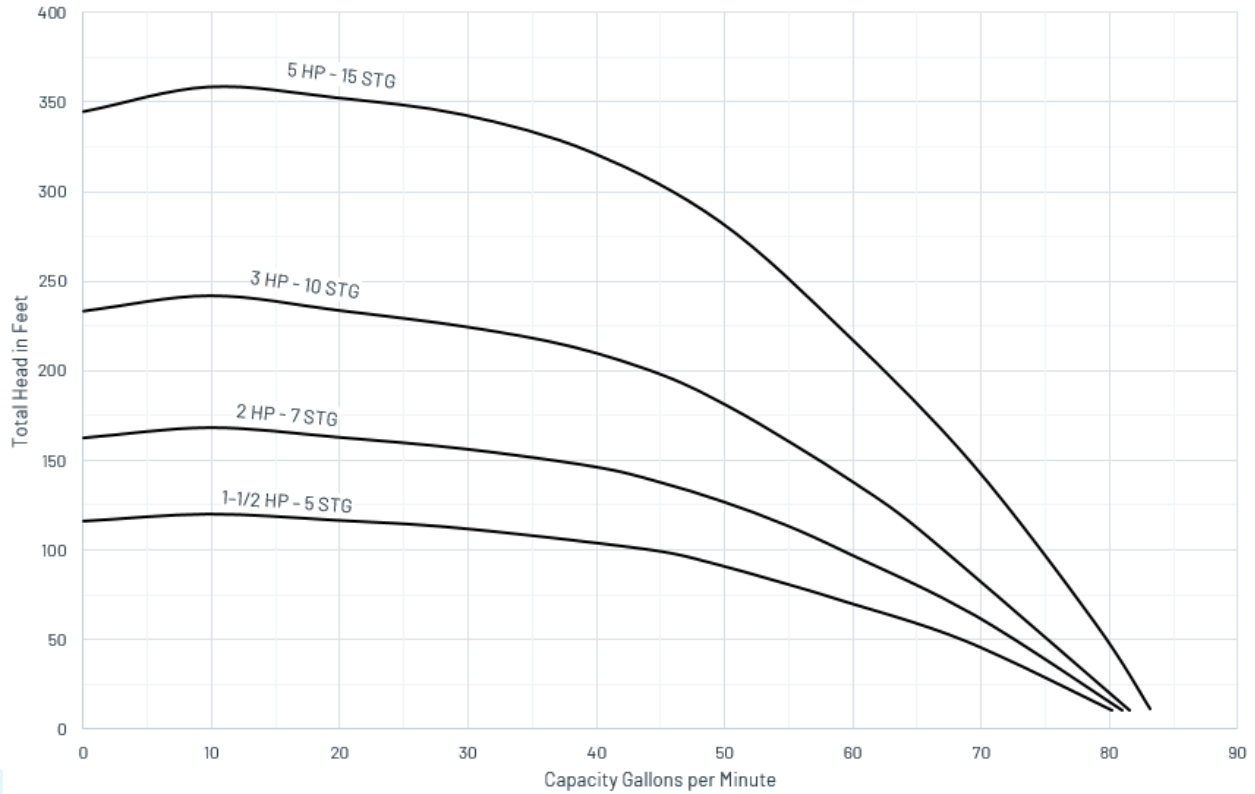
The 50 GPM Stainless Steel 4" High-Flo Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. New stack design delivers better efficiency and head per stage than previous model.

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Stainless Steel 4" Hi-Flo Submersible Pumps

PUMP PERFORMANCE

PEI (CL) = 0.85



Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source[®] tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. Check valve sold separately.

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| PUMP PERFORMANCE (Capacity in gallons per minute) | | | | | | | | | | | | | | | | | | | |
|---|-----|-----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|------|-----|
| HP | PSI | PUMPING DEPTH IN FEET | | | | | | | | | | | | | | | SHUT-OFF HEAD | | |
| | | 20 | 40 | 60 | 80 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 450 | 550 | 650 | 700 | FEET | PSI |
| 1-1/2 | 0 | - | - | 64 | 56 | 43 | | | | | | | | | | | | 116 | 50 |
| | 20 | 62 | 52 | 37 | | | | | | | | | | | | | | | |
| | 30 | 50 | 34 | | | | | | | | | | | | | | | | |
| | 40 | 48 | 30 | | | | | | | | | | | | | | | | |
| | 50 | 25 | | | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | | | | |
| 2 | 0 | - | - | - | 65 | 59 | 50 | 37 | | | | | | | | | | 164 | 71 |
| | 20 | - | 64 | 57 | 50 | 39 | | | | | | | | | | | | | |
| | 30 | 63 | 56 | 49 | 38 | | | | | | | | | | | | | | |
| | 40 | 55 | 47 | 35 | | | | | | | | | | | | | | | |
| | 50 | 45 | 33 | | | | | | | | | | | | | | | | |
| | 60 | 30 | | | | | | | | | | | | | | | | | |
| 3 | 0 | - | - | - | - | 67 | 63 | 57 | 51 | 43 | | | | | | | | 235 | 101 |
| | 20 | - | - | 66 | 62 | 58 | 52 | 45 | 34 | | | | | | | | | | |
| | 30 | - | 66 | 62 | 57 | 53 | 45 | 35 | | | | | | | | | | | |
| | 40 | 65 | 61 | 57 | 52 | 46 | 36 | | | | | | | | | | | | |
| | 50 | 61 | 56 | 51 | 45 | 37 | | | | | | | | | | | | | |
| | 60 | 55 | 50 | 44 | 35 | | | | | | | | | | | | | | |
| 5 | 0 | - | - | - | - | - | - | 69 | 66 | 63 | 55 | 45 | 26 | | | | | 346 | 150 |
| | 20 | - | - | - | - | - | 66 | 63 | 59 | 56 | 46 | 29 | | | | | | | |
| | 30 | - | - | - | - | 67 | 63 | 60 | 56 | 52 | 40 | | | | | | | | |
| | 40 | - | - | - | 66 | 64 | 60 | 56 | 52 | 47 | 31 | | | | | | | | |
| | 50 | - | - | 66 | 63 | 61 | 57 | 52 | 47 | 41 | | | | | | | | | |
| | 60 | - | 66 | 63 | 60 | 57 | 53 | 48 | 42 | 33 | | | | | | | | | |

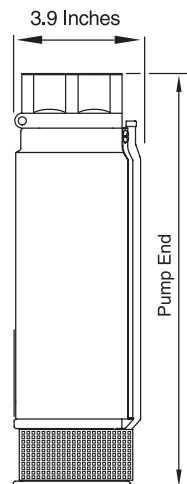
CAUTION: DO NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

ORDERING INFORMATION

| MOTOR TYPE | HP | STGS. | PH | VOLT | PUMP END | | | MOTOR | | CONTROL BOX | | | |
|------------|-----|-------|----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|---|
| | | | | | CATALOG NUMBER | LENGTH INCHES* | WEIGHT POUNDS* | CATALOG NUMBER | WEIGHT POUNDS* | CATALOG NUMBER | WEIGHT POUNDS* | | |
| 2 WIRE | 1.5 | 5 | 1 | 230 | SS15-50-02 | 18-3/4 | 11 | P42B0015A2 | 29 | | | | |
| | | | 3 | 230 | SS15-50-02 | 18-3/4 | 11 | P43B0015A2 | 27 | SMC-CR1521 | 7 | | |
| | | | 3 | 460 | SS15-50-02 | 18-3/4 | 11 | P43B0015A3 | 23 | | | | |
| | | | 3 | 575 | SS15-50-02 | 18-3/4 | 11 | P43B0015A4 | 23 | | | | |
| | 2 | 7 | 1 | 230 | SS20-50-02 | 24-1/8 | 16 | P43B0020A2 | 31 | SMC-CR2021 | 7 | | |
| | | | 3 | 230 | SS20-50-02 | 24-1/8 | 16 | P43B0020A3 | 27 | | | | |
| | | | 3 | 460 | SS20-50-02 | 24-1/8 | 16 | P43B0020A4 | 27 | | | | |
| | | | 3 | 575 | SS20-50-02 | 24-1/8 | 16 | P43B0020A5 | 32 | | | | |
| | | | 3 | 10 | 1 | 230 | SS30-50-02 | 32 | 19 | P43B0030A2 | 40 | SMC-CR3021 | 7 |
| | | | | | 3 | 230 | SS30-50-02 | 32 | 19 | P43B0030A3 | 32 | | |
| | | | | | 3 | 460 | SS30-50-02 | 32 | 19 | P43B0030A4 | 32 | | |
| | | | | | 3 | 575 | SS30-50-02 | 32 | 19 | P43B0030A5 | 32 | | |
| | 5 | 15 | 1 | 230 | SS50-50-02 | 45-3/8 | 24 | P43B0050A2 | 70 | SMC-CR5021 | 8 | | |
| | | | 3 | 230 | SS50-50-02 | 45-3/8 | 24 | P43B0050A3 | 55 | | | | |
| | | | 3 | 460 | SS50-50-02 | 45-3/8 | 24 | P43B0050A4 | 55 | | | | |
| | | | 3 | 575 | SS50-50-02 | 45-3/8 | 24 | P43B0050A5 | 70 | | | | |

*Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.



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