



SUBMERSIBLE PUMPS

RESIDENTIAL & LIGHT COMMERCIAL



SUBMERSIBLE PUMPS

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MODEL NUMBER NOMENCLATURE

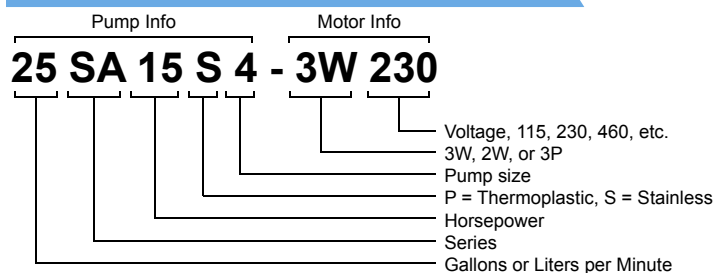
PUMP AND MOTOR BRAND/SERIES CODES

SR = Schaefer 3200 Series
 SA = Schaefer Tri-Seal
 SV = Schaefer Series V
 SE = Schaefer Effluent
 FH = Tri-Seal High Capacity

HORSEPOWER CODES

| HP | 1/3 | 1/2 | 3/4 | 1 | 1.5 | 2 | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 175 | 200 |
|------|-----|-----|-----|---|-----|---|---|---|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Code | 03 | 05 | 07 | 1 | 15 | 2 | 3 | 5 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 175 | 200 |

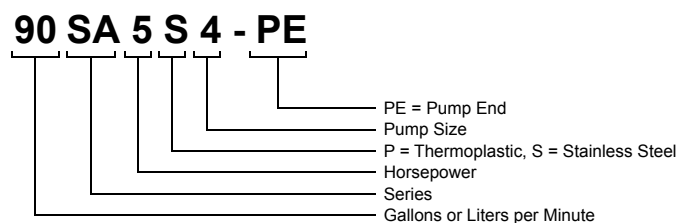
4" 5-25 GPM SUBMERSIBLE PUMPS/MOTORS



Examples:

15SA1S4-2W115 = 15 gpm, Schaefer 4400 Tri-Seal, Stainless Steel, 1 hp, 115 V, 2-wire Motor
 10SA15SA-3W230 = 10 gpm, Schaefer 4400 Tri-Seal, Stainless Steel, 1.5 hp, 230 V, 3-wire Motor

PUMP END



Examples:

45SA3S4-PE = 45 gpm, Schaefer 4400, 3 hp, Stainless Steel, Pump End
 25SE1P4-PE = 25 lpm, Schaefer E Series, 1 hp, Thermoplastic, Pump End

YOUR SUBMERSIBLE PUMP TEAM

Franklin's technical service hotline is made up of real people, offering real answers, in real time. Serving professional water systems distributors and contractors, our hotline boasts decades of collective industry experience. For answers to your water systems questions, contact our hotline by phone or email.

CUSTOMER RELATIONS

Please contact us at:

Toll Free: 800-269-0063

Fax: 260-827-5800

Email: cleanwater@fele.com

TECHNICAL SERVICE HOTLINE

Please contact us at:

Toll Free: 800-348-2420

Email: hotline@fele.com

ON THE WEB

Franklin Electric Website: www.franklinwater.com

FE DIRECT: <https://next.fe-direct.com/>

Connect with Us!




EXPERIENCE SERVICE

4" 3200 SERIES PUMPS

The 3200 Series submersible pumps are designed so that all parts of the pump end, including the cable guard, fall within the diameter of Franklin Electric's industry leading submersible 4" motor. This reduced diameter pump end makes it ideal for installations where the well is considered encrusted or tight in comparison to a standard 4" well. The 3200 Series also offers a hydraulic stage design optimized for greater water and pressure output when installed at deeper well depths. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

FEATURES

- Pump diameter is smaller than a standard 4" submersible for easier installation in reduced diameter 4" wells
- Hex rubber bearing and ceramic shaft sleeve allows sand and abrasives to pass through, virtually eliminating shaft wear and upper bearing failures
- Improved hydraulic performance for deeper set depths at all horsepower and flow ratings
 - Floating stage design allows for maximum efficiency while minimizing the downthrust load that is transferred to the motor
 - Advanced thermoplastic diffuser and disc with 300 Series stainless steel thrust and eye seal protection for durability and abrasion resistance
 - Scallop impellers provide high performance to increase pressure output while reducing system losses from friction
- Removable spring-loaded check valve
- Stainless steel pump intake screen and stainless steel cable guard
- Maximum water temperature: 120 °F/49 °C
- Powered by corrosion-resistant Franklin Electric submersible 4" motor with lightning protection




 UL 778
 CSA 108
 NSF/ANSI 372
 NSF/ANSI 61 (Pump end only)

4" 3200 SERIES PUMPS - ORDERING INFORMATION

THERMOPLASTIC ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | 3-Wire | | |
|-----|-----|--------|-------|-----------------|----------|-----------------|----------|-------------|
| | | | | Model | Order | Model | Order | Control Box |
| 5 | 1/2 | 13 | 115 | 5SR05P4-2W115 | 96250505 | 5SR05P4-3W115 | 96250530 | 2801044915 |
| | 1/2 | 13 | 230 | 5SR05P4-2W230 | 96250510 | 5SR05P4-3W230 | 96250535 | 2801054915 |
| | 3/4 | 18 | 230 | 5SR07P4-2W230 | 96250515 | 5SR07P4-3W230 | 96250540 | 2801074915 |
| | 1 | 22 | 230 | 5SR1P4-2W230 | 96250520 | 5SR1P4-3W230 | 96250545 | 2801084915 |
| 7 | 1/2 | 10 | 115 | 7SR05P4-2W115 | 96250705 | 7SR05P4-3W115 | 96250730 | 2801044915 |
| | 1/2 | 10 | 230 | 7SR05P4-2W230 | 96250710 | 7SR05P4-3W230 | 96250735 | 2801054915 |
| | 3/4 | 13 | 230 | 7SR07P4-2W230 | 96250715 | 7SR07P4-3W230 | 96250740 | 2801074915 |
| | 1 | 18 | 230 | 7SR1P4-2W230 | 96250720 | 7SR1P4-3W230 | 96250745 | 2801084915 |
| 10 | 1/2 | 11 | 115 | 10SRD05P4-2W115 | 96251005 | 10SRD05P4-3W115 | 96251030 | 2801044915 |
| | 1/2 | 11 | 230 | 10SRD05P4-2W230 | 96251010 | 10SRD05P4-3W230 | 96251035 | 2801054915 |
| | 3/4 | 14 | 230 | 10SRD07P4-2W230 | 96251015 | 10SRD07P4-3W230 | 96251040 | 2801074915 |
| | 1 | 19 | 230 | 10SRD1P4-2W230 | 96251020 | 10SRD1P4-3W230 | 96251045 | 2801084915 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

STAINLESS STEEL ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | 3-Wire | | |
|-----|-----|--------|-------|-----------------|----------|-----------------|----------|-------------|
| | | | | Model | Order | Model | Order | Control Box |
| 5 | 1/2 | 13 | 115 | 5SR05S4-2W115 | 96350505 | 5SR05S4-3W115 | 96350530 | 2801044915 |
| | 1/2 | 13 | 230 | 5SR05S4-2W230 | 96350510 | 5SR05S4-3W230 | 96350535 | 2801054915 |
| | 3/4 | 18 | 230 | 5SR07S4-2W230 | 96350515 | 5SR07S4-3W230 | 96350540 | 2801074915 |
| | 1 | 22 | 230 | 5SR1S4-2W230 | 96350520 | 5SR1S4-3W230 | 96350545 | 2801084915 |
| | 1.5 | 30 | 230 | 5SR15S4-2W230 | 96350525 | 5SR15S4-3W230 | 96350550 | 2823008610 |
| 7 | 1/2 | 10 | 115 | 7SR05S4-2W115 | 96350705 | 7SR05S4-3W115 | 96350730 | 2801044915 |
| | 1/2 | 10 | 230 | 7SR05S4-2W230 | 96350710 | 7SR05S4-3W230 | 96350735 | 2801054915 |
| | 3/4 | 13 | 230 | 7SR07S4-2W230 | 96350715 | 7SR07S4-3W230 | 96350740 | 2801074915 |
| | 1 | 18 | 230 | 7SR1S4-2W230 | 96350720 | 7SR1S4-3W230 | 96350745 | 2801084915 |
| | 1.5 | 23 | 230 | 7SR15S4-2W230 | 96350725 | 7SR15S4-3W230 | 96350750 | 2823008610 |
| 10 | 1/2 | 11 | 115 | 10SRD05S4-2W115 | 96351005 | 10SRD05S4-3W115 | 96351030 | 2801044915 |
| | 1/2 | 11 | 230 | 10SRD05S4-2W230 | 96351010 | 10SRD05S4-3W230 | 96351035 | 2801054915 |
| | 3/4 | 14 | 230 | 10SRD07S4-2W230 | 96351015 | 10SRD07S4-3W230 | 96351040 | 2801074915 |
| | 1 | 19 | 230 | 10SRD1S4-2W230 | 96351020 | 10SRD1S4-3W230 | 96351045 | 2801084915 |
| | 1.5 | 24 | 230 | 10SRD15S4-2W230 | 96351025 | 10SRD15S4-3W230 | 96351050 | 2823008610 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

THERMOPLASTIC PUMP ENDS

| GPM | HP | Stages | Model | Order |
|-----|-----|--------|--------------|----------|
| 5 | 1/2 | 13 | 5SR05P4-PE | 96260500 |
| | 3/4 | 18 | 5SR07P4-PE | 96260501 |
| | 1 | 22 | 5SR1P4-PE | 96260502 |
| 7 | 1/2 | 10 | 7SR05P4-PE | 96260700 |
| | 3/4 | 13 | 7SR07P4-PE | 96260701 |
| | 1 | 18 | 7SR1P4-PE | 96260702 |
| 10 | 1/2 | 11 | 10SRD05P4-PE | 96261000 |
| | 3/4 | 14 | 10SRD07P4-PE | 96261001 |
| | 1 | 19 | 10SRD1P4-PE | 96261002 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

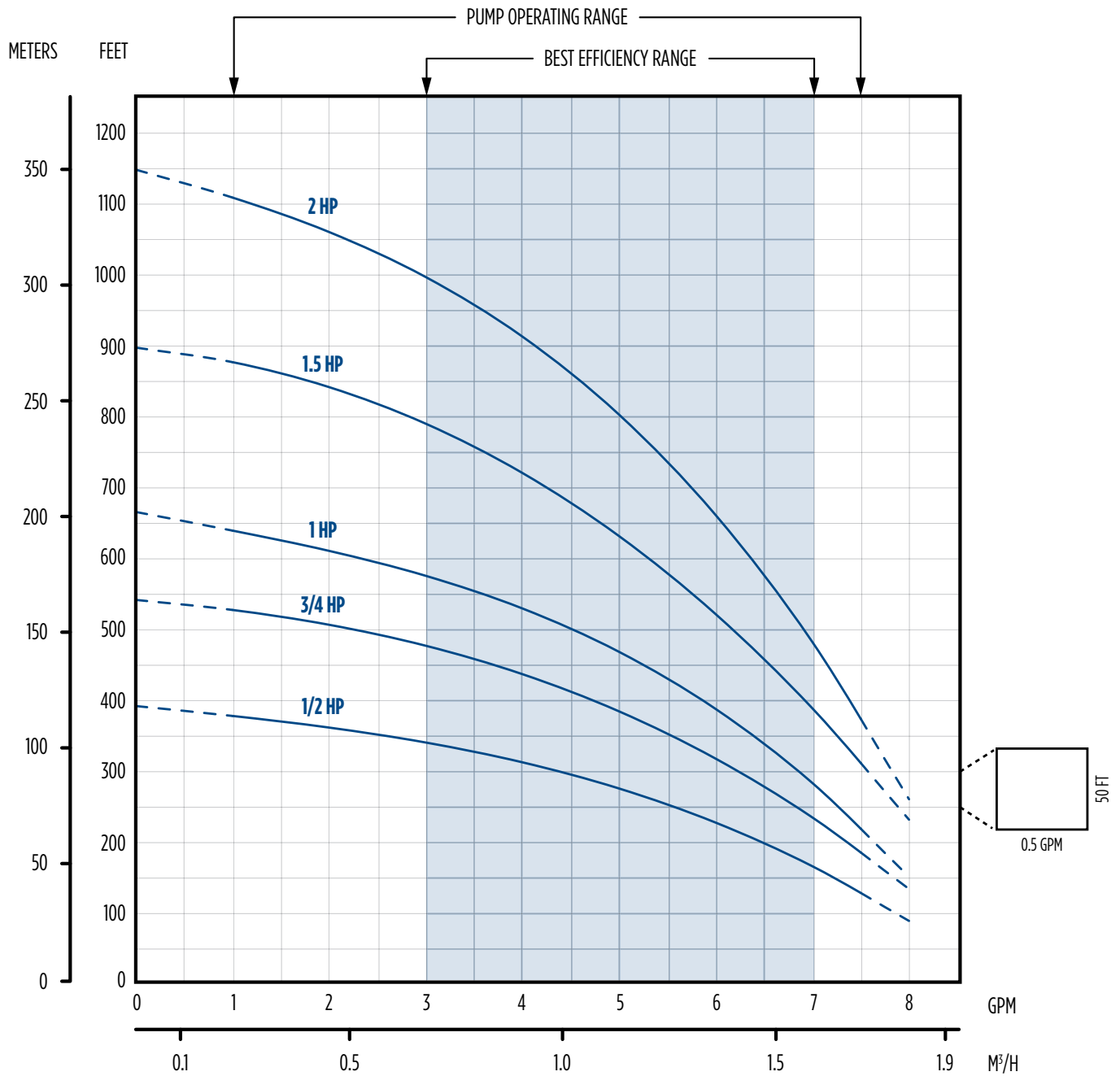
STAINLESS STEEL PUMP ENDS

| GPM | HP | Stages | Model | Order |
|-----|-----|--------|--------------|----------|
| 5 | 1/2 | 13 | 5SR05S4-PE | 96360500 |
| | 3/4 | 18 | 5SR07S4-PE | 96360501 |
| | 1 | 22 | 5SR1S4-PE | 96360502 |
| | 1.5 | 30 | 5SR15S4-PE | 96360503 |
| | 2 | 38 | 5SR2S4-PE | 96360504 |
| 7 | 1/2 | 10 | 7SR05S4-PE | 96360700 |
| | 3/4 | 13 | 7SR07S4-PE | 96360701 |
| | 1 | 18 | 7SR1S4-PE | 96360702 |
| | 1.5 | 23 | 7SR15S4-PE | 96360703 |
| | 2 | 30 | 7SR2S4-PE | 96360704 |
| | 3 | 38 | 7SR3S4-PE | 96360705 |
| 10 | 1/2 | 11 | 10SRD05S4-PE | 96361000 |
| | 3/4 | 14 | 10SRD07S4-PE | 96361001 |
| | 1 | 19 | 10SRD1S4-PE | 96361002 |
| | 1.5 | 24 | 10SRD15S4-PE | 96361003 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard on all models is 3.75".

4" 3200 SERIES PUMPS - 5 GPM

PERFORMANCE



4" 3200 SERIES PUMPS - 5 GPM

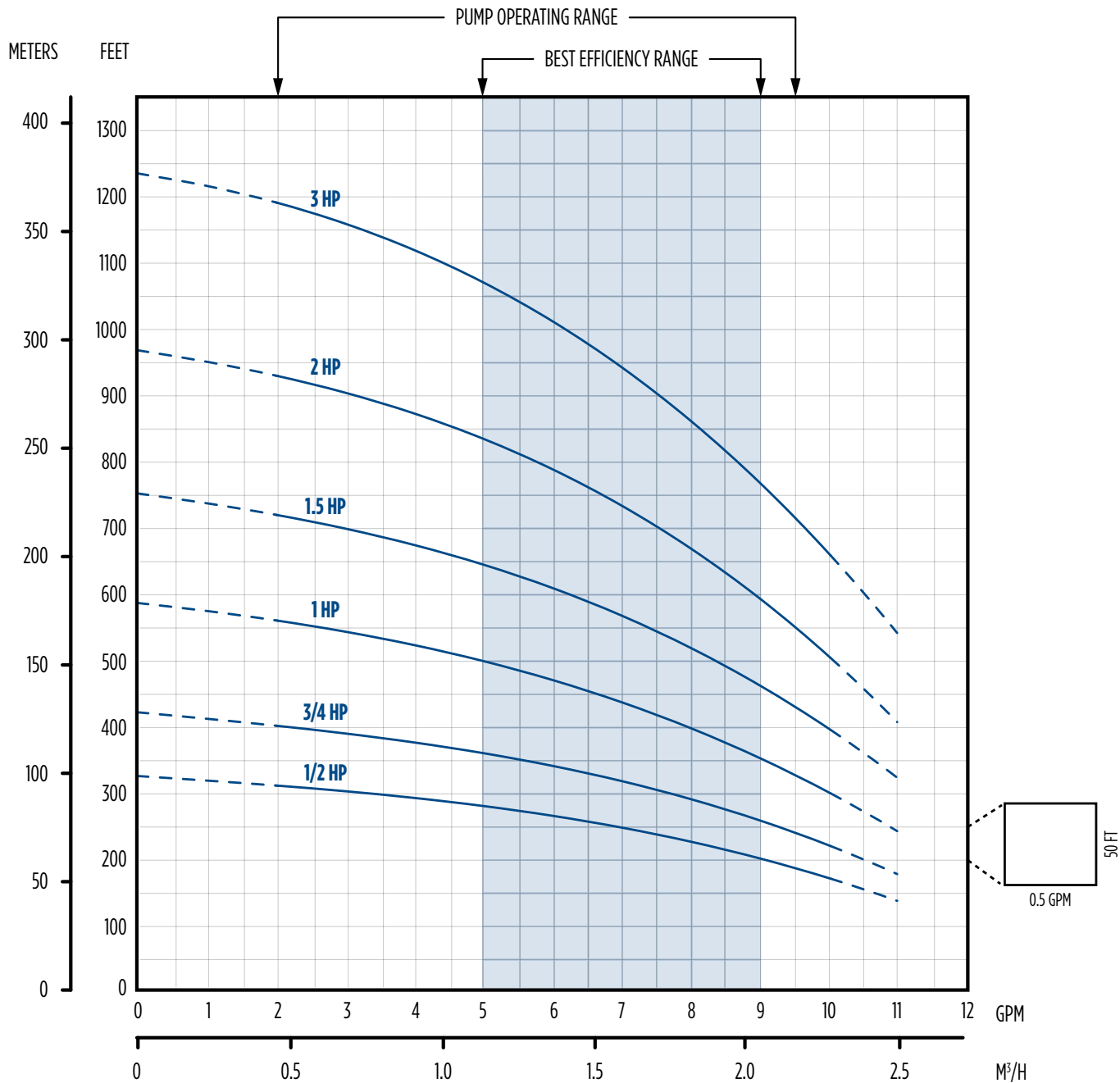
PERFORMANCE

| HP | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|---|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) | |
| 1/2 | 0 | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | 390 | |
| | 20 | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 4 | 3 | | | | | | | | | | | |
| | 30 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 1 | | | | | | | | | | | |
| | 40 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 3 | | | | | | | | | | | | |
| | 50 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 2 | | | | | | | | | | | | |
| | 60 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | | | | | | | | | | | | | |
| | 80 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 | | | | | | | | | | | | | | |
| Shut-off PSI | | 161 | 152 | 143 | 135 | 126 | 117 | 109 | 100 | 91 | 83 | 61 | 39 | 18 | | | | | | | | | | |
| 3/4 | 0 | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 4 | 2 | | | | | | 541 | |
| | 20 | | | | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 2 | | | | | | | | |
| | 30 | | | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | 1 | | | | | | | | |
| | 40 | | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | | | | | | | | |
| | 50 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | 2 | | | | | | | | | |
| | 60 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 4 | 3 | | | | | | | | | | |
| | 80 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | 1 | | | | | | | | | | |
| Shut-off PSI | | 226 | 217 | 209 | 200 | 191 | 183 | 174 | 165 | 157 | 148 | 126 | 105 | 83 | 61 | 39 | 18 | | | | | | | |
| 1 | 0 | | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 2 | | | | | 666 | |
| | 20 | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 1 | | | | | | |
| | 30 | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | | | | | | |
| | 40 | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | | | | | | | |
| | 50 | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | 2 | | | | | | | |
| | 60 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | 1 | | | | | | | |
| | 80 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | 1 | | | | | | | | |
| Shut-off PSI | | 280 | 271 | 263 | 254 | 245 | 237 | 228 | 219 | 211 | 202 | 180 | 159 | 137 | 115 | 94 | 72 | 29 | | | | | | |
| 1.5 | 0 | | | | | | | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | 899 | |
| | 20 | | | | | | | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 2 | | | |
| | 30 | | | | | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 3 | 1 | | | | |
| | 40 | | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | | | | |
| | 50 | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 3 | | | | | |
| | 60 | | | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 2 | | | | | |
| | 80 | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | 1 | | | | | | |
| Shut-off PSI | | 381 | 372 | 364 | 355 | 346 | 338 | 329 | 320 | 312 | 303 | 281 | 260 | 238 | 216 | 195 | 173 | 130 | 86 | 43 | | | | |
| 2 | 0 | | | | | | | | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | 1152 | |
| | 20 | | | | | | | | | | | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 5 | 4 | 2 | | |
| | 30 | | | | | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | 2 | | |
| | 40 | | | | | | | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | 1 | | |
| | 50 | | | | | | | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | 1 |
| | 60 | | | | | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 2 | | |
| | 80 | | | | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 3 | 2 | | | |
| Shut-off PSI | | 491 | 482 | 473 | 465 | 456 | 447 | 439 | 430 | 421 | 413 | 391 | 369 | 348 | 326 | 304 | 282 | 239 | 195 | 152 | 109 | 66 | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" 3200 SERIES PUMPS - 7 GPM

PERFORMANCE



4" 3200 SERIES PUMPS - 7 GPM

PERFORMANCE

| HP | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) |
| 1/2 | 0 | | | | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 7 | 3 | | | | | | | | | | 324 |
| | 20 | | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 4 | | | | | | | | | | | |
| | 30 | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 1 | | | | | | | | | | | |
| | 40 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 5 | 4 | | | | | | | | | | | | |
| | 50 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 5 | 4 | 1 | | | | | | | | | | | | |
| | 60 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | 3 | 1 | | | | | | | | | | | | | |
| | 80 | 9 | 8 | 7 | 6 | 5 | 3 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 132 | 123 | 115 | 106 | 97 | 89 | 80 | 71 | 63 | 54 | 32 | 10 | | | | | | | | | | |
| 3/4 | 0 | | | | | | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 5 | 2 | | | | | | | | 421 |
| | 20 | | | | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 6 | 2 | | | | | | | | | |
| | 30 | | | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 7 | 4 | | | | | | | | | | |
| | 40 | | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 6 | 3 | | | | | | | | | | |
| | 50 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 5 | 1 | | | | | | | | | | |
| | 60 | 11 | 11 | 10 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 3 | | | | | | | | | | | |
| | 80 | 10 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 3 | | | | | | | | | | | | |
| Shut-off PSI | | 174 | 165 | 156 | 148 | 139 | 130 | 122 | 113 | 104 | 96 | 74 | 52 | 31 | 9 | | | | | | | | |
| 1 | 0 | | | | | | | | 12 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | | | | | | 586 |
| | 20 | | | | | | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | |
| | 30 | | | | | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 9 | 7 | 6 | 4 | 1 | | | | | | |
| | 40 | | | | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | |
| | 50 | | | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 8 | 6 | 5 | 2 | | | | | | | |
| | 60 | | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | | |
| | 80 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 3 | | | | | | | | | |
| Shut-off PSI | | 245 | 237 | 228 | 219 | 211 | 202 | 193 | 185 | 176 | 167 | 146 | 124 | 102 | 81 | 59 | 37 | | | | | | |
| 1.5 | 0 | | | | | | | | | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 3 | | | | | 752 |
| | 20 | | | | | | | | | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | | | | | |
| | 30 | | | | | | | | 12 | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 7 | 4 | | | | | |
| | 40 | | | | | | | 12 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 6 | 3 | | | | | |
| | 50 | | | | | | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 2 | | | | | |
| | 60 | | | | | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 5 | 1 | | | | | |
| | 80 | | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 5 | 4 | | | | | | |
| Shut-off PSI | | 317 | 309 | 300 | 291 | 283 | 274 | 265 | 257 | 248 | 139 | 218 | 196 | 174 | 153 | 131 | 109 | 66 | 23 | | | | |
| 2 | 0 | | | | | | | | | | | | 12 | 11 | 11 | 11 | 10 | 9 | 8 | 6 | 3 | | 969 |
| | 20 | | | | | | | | | | | 12 | 12 | 11 | 11 | 10 | 10 | 8 | 7 | 5 | 1 | | |
| | 30 | | | | | | | | | | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 6 | 4 | | | |
| | 40 | | | | | | | | | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 6 | 3 | | | |
| | 50 | | | | | | | | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 7 | 5 | 3 | | | |
| | 60 | | | | | | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 5 | 2 | | | | |
| | 80 | | | | | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 6 | 4 | | | | | |
| Shut-off PSI | | 411 | 403 | 394 | 385 | 376 | 368 | 359 | 350 | 342 | 333 | 312 | 290 | 268 | 247 | 225 | 203 | 160 | 117 | 73 | 30 | | |

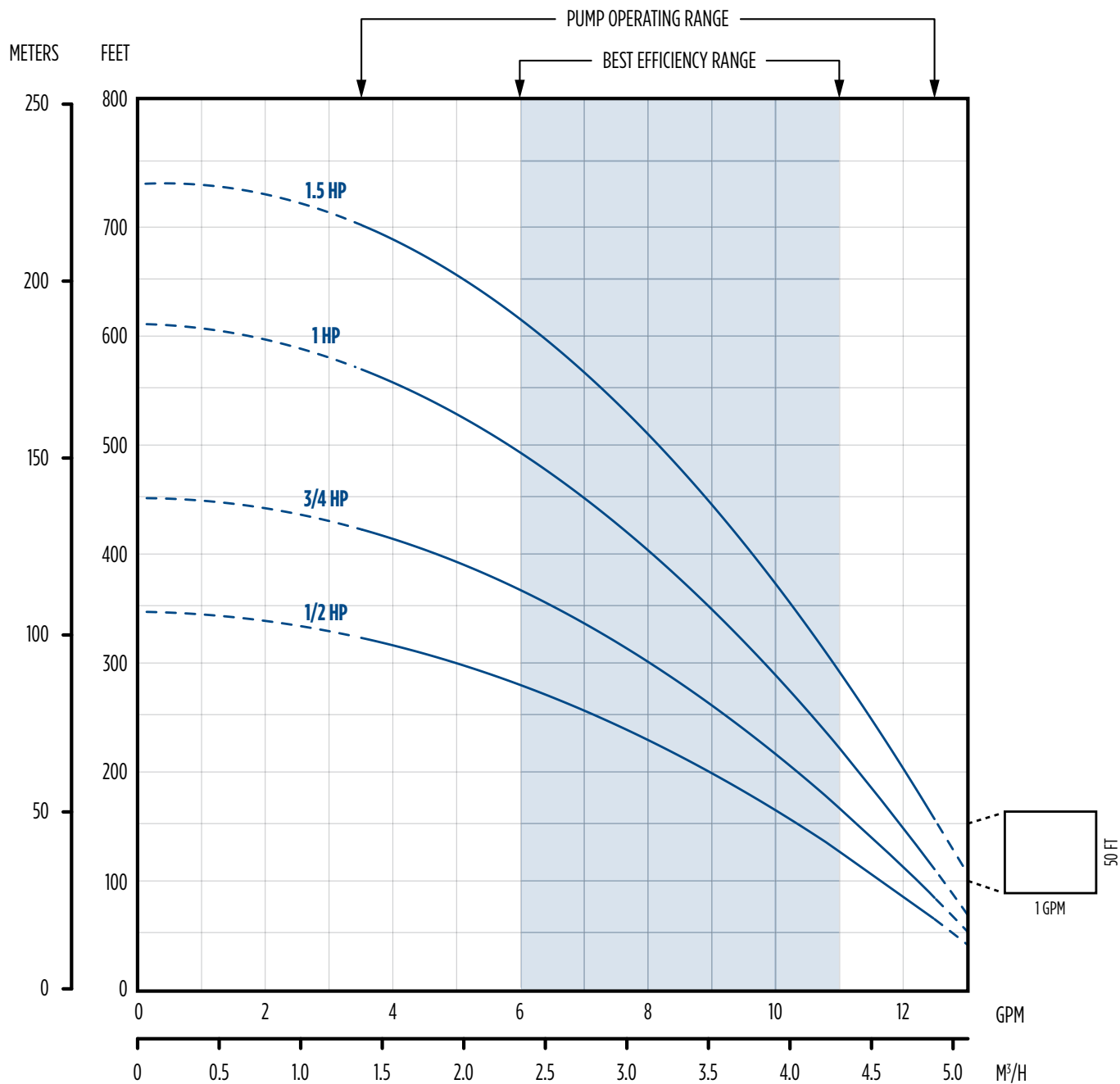
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

| HP | PSI | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---------------|
| 3 | 0 | | | | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 4 | 2 | | | 1237 |
| | 20 | | | | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | |
| | 30 | | | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | |
| | 40 | | | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | 2 | | | | |
| | 50 | | | 12 | 11 | 10 | 10 | 9 | 7 | 6 | 4 | 1 | | | | |
| | 60 | | | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | | | | | |
| | 80 | | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | 2 | | | | | |
| Shut-off PSI | | 493 | 450 | 406 | 363 | 319 | 276 | 233 | 189 | 146 | 103 | 59 | 16 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" 3200 SERIES PUMPS - 10 GPM

PERFORMANCE



4" 3200 SERIES PUMPS - 10 GPM

PERFORMANCE

| HP | PSI | Depth To Pumping Water Level, Lift, in Feet. Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|--|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | Shut-Off (ft) | | |
| 1/2 | 0 | | | | | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 6 | 4 | 0 | | | | | | | | | | | | 353 | |
| | 10 | | | | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 5 | 1 | 0 | | | | | | | | | | | | | |
| | 20 | | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 3 | 0 | | | | | | | | | | | | | | | |
| | 30 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 4 | 0 | | | | | | | | | | | | | | | |
| | 40 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 3 | 0 | | | | | | | | | | | | | | | |
| | 50 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | 0 | | | | | | | | | | | | | | | | |
| | 60 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | | | | | | | | | | | | | | | | |
| | 70 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | | | | | | | | | | | | | | | | | |
| | 80 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 3 | 1 | 0 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 153 | 144 | 135 | 127 | 118 | 110 | 101 | 92 | 84 | 75 | 66 | 49 | 32 | 14 | 0 | | | | | | | | | | | | | |
| 3/4 | 0 | | | | | 13 | 12 | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 7 | 6 | 5 | 2 | 0 | | | | | | | | 455 | | |
| | 10 | | | | 13 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 5 | 3 | 0 | | | | | | | | | | | | |
| | 20 | | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 4 | 1 | 0 | | | | | | | | | | | |
| | 30 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 5 | 3 | 0 | | | | | | | | | | | | |
| | 40 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 4 | 0 | | | | | | | | | | | | | |
| | 50 | 12 | 12 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 6 | 5 | 3 | 0 | | | | | | | | | | | | | |
| | 60 | 12 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 4 | 0 | | | | | | | | | | | | | | |
| | 70 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 2 | 0 | | | | | | | | | | | | | | |
| | 80 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 3 | 0 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 197 | 188 | 180 | 171 | 162 | 154 | 145 | 136 | 128 | 119 | 110 | 93 | 76 | 58 | 41 | 24 | 6 | 0 | | | | | | | | | | |
| 1 | 0 | | | | | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 6 | 4 | 2 | 0 | | | | | 618 | | |
| | 10 | | | | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | 0 | | | | | | | | |
| | 20 | | | | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | | | | | | | |
| | 30 | | 13 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 7 | 6 | 4 | 4 | 0 | | | | | | | | | |
| | 40 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 3 | 2 | 0 | | | | | | | | |
| | 50 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | | | | | | | | | |
| | 60 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | 0 | | | | | | | | | | |
| | 70 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | | | | | | | | | | |
| | 80 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 6 | 4 | 3 | 0 | | | | | | | | | | | |
| Shut-off PSI | | 268 | 259 | 250 | 242 | 233 | 224 | 216 | 207 | 198 | 190 | 181 | 164 | 146 | 129 | 112 | 94 | 77 | 60 | 51 | 29 | 8 | 0 | | | | | | |
| 1.5 | 0 | | | | | | | | | | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 9 | 9 | 8 | 7 | 6 | 4 | 2 | 0 | 765 | | |
| | 10 | | | | | | | | 13 | 13 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 0 | | | | |
| | 20 | | | | | | | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | 0 | | | |
| | 30 | | | | | | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 5 | 4 | 0 | | | | | |
| | 40 | | | | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 3 | 0 | | | | | |
| | 50 | | | | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 5 | 4 | 0 | | | | | | |
| | 60 | | | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 3 | 0 | | | | | | |
| | 70 | 13 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 6 | 4 | 0 | | | | | | | |
| | 80 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 5 | 3 | 0 | | | | | | | |
| Shut-off PSI | | 331 | 323 | 314 | 305 | 297 | 288 | 279 | 271 | 262 | 253 | 245 | 227 | 210 | 193 | 175 | 158 | 141 | 123 | 115 | 93 | 71 | 50 | 28 | 6 | 0 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

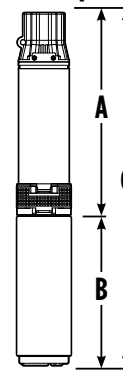
4" 3200 SERIES PUMPS - DIMENSIONS

THERMOPLASTIC

| GPM | HP | Stages | 2-Wire | | | | | 3-Wire | | | | |
|-----|-----|--------|-----------------|------|------|-----------|-----|-----------------|------|------|-----------|-----|
| | | | Dimensions (in) | | | Wt. (lbs) | | Dimensions (in) | | | Wt. (lbs) | |
| | | | A | B | C | PE | PMA | A | B | C | PE | PMA |
| 5 | 1/2 | 13 | 18.4 | 9.5 | 27.9 | 8 | 27 | 18.4 | 9.5 | 27.9 | 8 | 27 |
| | 3/4 | 18 | 22.6 | 10.6 | 33.3 | 10 | 31 | 22.6 | 10.6 | 33.3 | 10 | 31 |
| | 1 | 22 | 26.0 | 11.7 | 37.7 | 11 | 35 | 26.0 | 11.7 | 37.7 | 11 | 35 |
| 7 | 1/2 | 10 | 15.9 | 9.5 | 25.4 | 7 | 26 | 15.9 | 9.5 | 25.4 | 7 | 26 |
| | 3/4 | 13 | 18.4 | 10.6 | 29.0 | 9 | 30 | 18.4 | 10.6 | 29.0 | 9 | 30 |
| | 1 | 18 | 22.6 | 11.7 | 34.3 | 11 | 35 | 22.6 | 11.7 | 34.3 | 11 | 35 |
| 10 | 1/2 | 11 | 16.7 | 9.5 | 26.2 | 8 | 27 | 16.7 | 9.5 | 26.2 | 8 | 27 |
| | 1/2 | 11 | 16.7 | 9.5 | 26.2 | 8 | 27 | 16.7 | 9.5 | 26.2 | 8 | 27 |
| | 3/4 | 14 | 19.2 | 10.6 | 29.8 | 10 | 31 | 19.2 | 10.6 | 29.8 | 10 | 31 |
| | 1 | 19 | 23.5 | 11.7 | 35.2 | 12 | 36 | 23.5 | 11.7 | 35.2 | 12 | 36 |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Diameter with cable guard is 3.75"

Thermoplastic

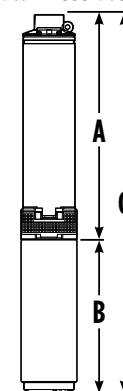


STAINLESS STEEL

| GPM | HP | Stages | 2-Wire | | | | | 3-Wire | | | | |
|-----|-----|--------|-----------------|------|------|-----------|-----|-----------------|-------|------|-----------|-----|
| | | | Dimensions (in) | | | Wt. (lbs) | | Dimensions (in) | | | Wt. (lbs) | |
| | | | A | B | C | PE | PMA | A | B | C | PE | PMA |
| 5 | 1/2 | 13 | 17 | 9.5 | 28.5 | 10 | 29 | 17 | 9.5 | 26.5 | 10 | 29 |
| | 3/4 | 18 | 21.2 | 10.6 | 31.9 | 12 | 33 | 21.2 | 10.6 | 31.9 | 12 | 33 |
| | 1 | 22 | 24.6 | 11.7 | 36.3 | 13 | 27 | 24.6 | 11.7 | 36.3 | 13 | 27 |
| | 1.5 | 30 | 32.7 | 15.1 | 47.8 | 19 | 50 | 32.7 | 13.6 | 46.3 | 19 | 50 |
| | 2 | 38 | - | - | - | - | - | 39.5 | 15.1 | 54.6 | 23 | - |
| 7 | 1/2 | 10 | 14.5 | 9.5 | 24.0 | 9 | 28 | 14.5 | 9.5 | 24.0 | 9 | 28 |
| | 3/4 | 13 | 17 | 10.6 | 27.6 | 11 | 32 | 17 | 10.6 | 27.6 | 11 | 32 |
| | 1 | 18 | 21.2 | 11.7 | 32.9 | 13 | 37 | 21.2 | 11.7 | 32.9 | 13 | 37 |
| | 1.5 | 23 | 25.4 | 15.1 | 40.5 | 17 | 48 | 25.4 | 13.6 | 39.0 | 17 | 48 |
| | 2 | 30 | - | - | - | - | - | 32.7 | 15.1 | 38.8 | 20 | - |
| | 3 | 38 | - | - | - | - | - | 39.5 | 19.04 | 58.5 | 23 | - |
| 10 | 1/2 | 11 | 15.3 | 9.5 | 25.8 | 10 | 29 | 15.3 | 9.5 | 24.8 | 10 | 29 |
| | 1/2 | 11 | 15.3 | 9.5 | 25.8 | 10 | 29 | 15.3 | 9.5 | 24.8 | 10 | 29 |
| | 3/4 | 14 | 17.8 | 10.6 | 28.5 | 12 | 33 | 17.8 | 10.6 | 28.4 | 12 | 33 |
| | 1 | 19 | 22.1 | 11.7 | 33.8 | 14 | 38 | 22.1 | 11.7 | 33.8 | 14 | 38 |
| | 1.5 | 24 | 26.3 | 15.1 | 41.4 | 18 | 49 | 26.3 | 13.6 | 39.9 | 18 | 49 |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Diameter with cable guard is 3.75"

Stainless Steel



4" TRI-SEAL PUMPS

The Tri-Seal 4" submersible pump features the Tri-Seal floating stage system. This stage system further improves efficiency and protects against wear when pumping abrasives. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

FEATURES

- 300 Series stainless steel hub floats with the impeller maintaining a positive seal
- Phenolic washer provides downthrust protection
- Scallop impellers provide high efficiency performance and abrasion resistance
- Advanced thermoplastic diffuser and disc - proven abrasion-resistant material
- Floating stage design allows impeller to float independently
- Removable, spring-loaded check valve
- Maximum water temperature: 120 °F/49 °C
- Ceramic shaft sleeve and rubber discharge bearing protect shaft and eliminate sand wear
- Powered by Franklin Electric corrosion-resistant super stainless 4" submersible motors with lightning protection
- Patented impeller hub seal system seals radially and axially to prevent fluid recirculation, providing high performance in the harshest conditions

Tri-Seal™ Floating Stage System

U.S. Patent No. 7,290,984



UL 778
CSA 108
NSF/ANSI 372
NSF/ANSI 61 (Pump end only)



4" TRI-SEAL PUMPS - ORDERING INFORMATION

THERMOPLASTIC ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | | 3-Wire | | | |
|-----|-----|--------|-------|----------------|----------|--------------|----------------|----------|--------------|-------------|
| | | | | Model | Order | Motor | Model | Order | Motor | Control Box |
| 10 | 1/2 | 6 | 115 | 10SA05P4-2W115 | 93701005 | 2445049004GS | 10SA05P4-3W115 | 93701030 | 2145049004GS | 2801044915 |
| | 1/2 | 6 | 230 | 10SA05P4-2W230 | 93701010 | 2445059004GS | 10SA05P4-3W230 | 93701035 | 2145059004GS | 2801054915 |
| | 3/4 | 8 | 230 | 10SA07P4-2W230 | 93701015 | 2445079004GS | 10SA07P4-3W230 | 93701040 | 2145079004GS | 2801074915 |
| | 1 | 11 | 230 | 10SA1P4-2W230 | 93701020 | 2445089003GS | 10SA1P4-3W230 | 93701045 | 2145089003GS | 2801084915 |
| | 1.5 | 15 | 230 | 10SA15P4-2W230 | 93701025 | 2443099004GS | 10SA15P4-3W230 | 93701050 | 2243009203GS | 2823008110 |
| 15 | 1/2 | 4 | 115 | 15SA05P4-2W115 | 93701505 | 2445049004GS | 15SA05P4-3W115 | 93701530 | 2145049004GS | 2801044915 |
| | 1/2 | 4 | 230 | 15SA05P4-2W230 | 93701510 | 2445059004GS | 15SA05P4-3W230 | 93701535 | 2145059004GS | 2801054915 |
| | 3/4 | 6 | 230 | 15SA07P4-2W230 | 93701515 | 2445079004GS | 15SA07P4-3W230 | 93701540 | 2145079004GS | 2801074915 |
| | 1 | 9 | 230 | 15SA1P4-2W230 | 93701520 | 2445089003GS | 15SA1P4-3W230 | 93701545 | 2145089003GS | 2801084915 |
| | 1.5 | 11 | 230 | 15SA15P4-2W230 | 93701525 | 2443099004GS | 15SA15P4-3W230 | 93701550 | 2243009203GS | 2823008110 |
| 20 | 3/4 | 5 | 230 | 20SA07P4-2W230 | 93702015 | 2445079004GS | 20SA07P4-3W230 | 93702040 | 2145079004GS | 2801074915 |
| | 1 | 7 | 230 | 20SA1P4-2W230 | 93702020 | 2445089003GS | 20SA1P4-3W230 | 93702045 | 2145089003GS | 2801084915 |
| | 1.5 | 10 | 230 | 20SA15P4-2W230 | 93702025 | 2443099004GS | 20SA15P4-3W230 | 93702050 | 2243009203GS | 2823008110 |
| 25 | 1 | 6 | 230 | 25SA1P4-2W230 | 93702520 | 2445089003GS | 25SA1P4-3W230 | 93702545 | 2145089003GS | 2801084915 |
| | 1.5 | 8 | 230 | 25SA15P4-2W230 | 93702525 | 2443099004GS | 25SA15P4-3W230 | 93702550 | 2243009203GS | 2823008110 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

STAINLESS STEEL ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | | 3-Wire | | | |
|-----|-----|--------|-------|----------------|----------|--------------|----------------|----------|--------------|-------------|
| | | | | Model | Order | Motor | Model | Order | Motor | Control Box |
| 10 | 1/2 | 6 | 115 | 10SA05S4-2W115 | 93721005 | 2445049004GS | 10SA05S4-3W115 | 93721030 | 2145049004GS | 2801044915 |
| | 1/2 | 6 | 230 | 10SA05S4-2W230 | 93721010 | 2445059004GS | 10SA05S4-3W230 | 93721035 | 2145059004GS | 2801054915 |
| | 3/4 | 8 | 230 | 10SA07S4-2W230 | 93721015 | 2445079004GS | 10SA07S4-3W230 | 93721040 | 2145079004GS | 2801074915 |
| | 1 | 11 | 230 | 10SA1S4-2W230 | 93721020 | 2445089003GS | 10SA1S4-3W230 | 93721045 | 2145089003GS | 2801084915 |
| | 1.5 | 15 | 230 | 10SA15S4-2W230 | 93721025 | 2443099004GS | 10SA15S4-3W230 | 93721050 | 2243009203GS | 2823008110 |
| 15 | 1/2 | 4 | 115 | 15SA05S4-2W115 | 93721505 | 2445049004GS | 15SA05S4-3W115 | 93721530 | 2145049004GS | 2801044915 |
| | 1/2 | 4 | 230 | 15SA05S4-2W230 | 93721510 | 2445059004GS | 15SA05S4-3W230 | 93721535 | 2145059004GS | 2801054915 |
| | 3/4 | 6 | 230 | 15SA07S4-2W230 | 93721515 | 2445079004GS | 15SA07S4-3W230 | 93721540 | 2145079004GS | 2801074915 |
| | 1 | 9 | 230 | 15SA1S4-2W230 | 93721520 | 2445089003GS | 15SA1S4-3W230 | 93721545 | 2145089003GS | 2801084915 |
| | 1.5 | 11 | 230 | 15SA15S4-2W230 | 93721525 | 2443099004GS | 15SA15S4-3W230 | 93721550 | 2243009203GS | 2823008110 |
| 20 | 3/4 | 5 | 230 | 20SA07S4-2W230 | 93722015 | 2445079004GS | 20SA07S4-3W230 | 93722040 | 2145079004GS | 2801074915 |
| | 1 | 7 | 230 | 20SA1S4-2W230 | 93722020 | 2445089003GS | 20SA1S4-3W230 | 93722045 | 2145089003GS | 2801084915 |
| | 1.5 | 10 | 230 | 20SA15S4-2W230 | 93722025 | 2443099004GS | 20SA15S4-3W230 | 93722050 | 2243009203GS | 2823008110 |
| 25 | 1 | 6 | 230 | 25SA1S4-2W230 | 93722520 | 2445089003GS | 25SA1S4-3W230 | 93722545 | 2145089003GS | 2801084915 |
| | 1.5 | 8 | 230 | 25SA15S4-2W230 | 93722525 | 2443099004GS | 25SA15S4-3W230 | 93722550 | 2243009203GS | 2823008110 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

4" TRI-SEAL PUMPS - ORDERING INFORMATION

THERMOPLASTIC PUMP ENDS

| GPM | HP | Stages | Model | Order |
|-----|-----|--------|-------------|----------|
| 10 | 1/2 | 6 | 10SA05P4-PE | 93711005 |
| | 3/4 | 8 | 10SA07P4-PE | 93711010 |
| | 1 | 11 | 10SA1P4-PE | 93711015 |
| | 1.5 | 15 | 10SA15P4-PE | 93711020 |
| 15 | 1/2 | 4 | 15SA05P4-PE | 93711505 |
| | 3/4 | 6 | 15SA07P4-PE | 93711510 |
| | 1 | 9 | 15SA1P4-PE | 93711515 |
| | 1.5 | 11 | 15SA15P4-PE | 93711520 |
| 20 | 3/4 | 5 | 20SA07P4-PE | 93712010 |
| | 1 | 7 | 20SA1P4-PE | 93712015 |
| | 1.5 | 10 | 20SA15P4-PE | 93712020 |
| 25 | 1 | 6 | 25SA1P4-PE | 93712515 |
| | 1.5 | 8 | 25SA15P4-PE | 93712520 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

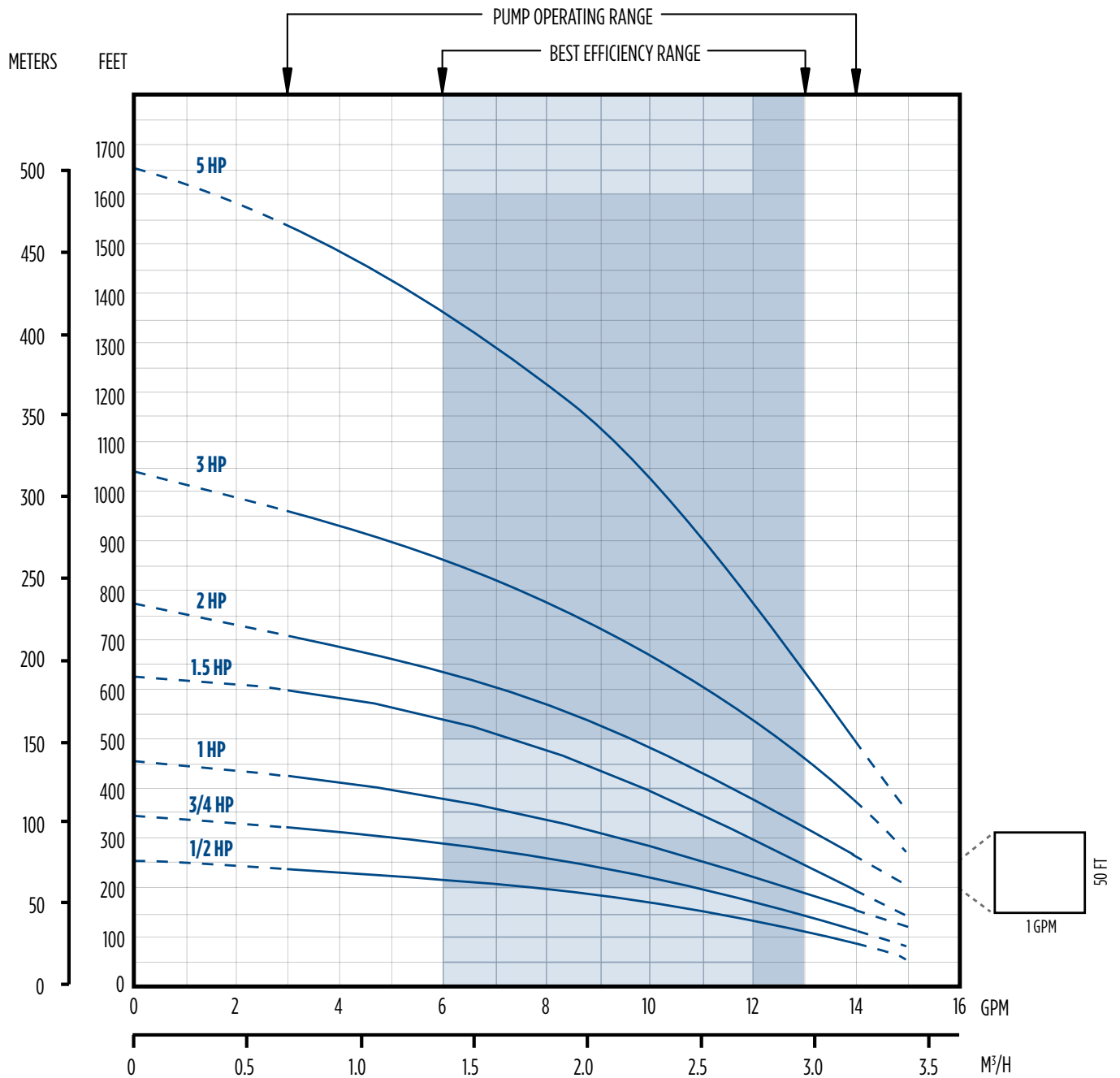
STAINLESS STEEL PUMP ENDS

| GPM | HP | Stages | Model | Order |
|-----|-----|--------|-------------|----------|
| 10 | 1/2 | 6 | 10SA05S4-PE | 93731005 |
| | 3/4 | 8 | 10SA07S4-PE | 93731010 |
| | 1 | 11 | 10SA1S4-PE | 93731015 |
| | 1.5 | 15 | 10SA15S4-PE | 93731020 |
| | 2 | 18 | 10SA2S4-PE | 93731025 |
| | 3 | 24 | 10SA3S4-PE | 93731030 |
| | 5 | 39 | 10SA5S4-PE | 93731035 |
| 15 | 1/2 | 4 | 15SA05S4-PE | 93731505 |
| | 3/4 | 6 | 15SA07S4-PE | 93731510 |
| | 1 | 9 | 15SA1S4-PE | 93731515 |
| | 1.5 | 11 | 15SA15S4-PE | 93731520 |
| | 2 | 14 | 15SA2S4-PE | 93731525 |
| | 3 | 19 | 15SA3S4-PE | 93731530 |
| | 5 | 31 | 15SA5S4-PE | 93731535 |
| 20 | 3/4 | 5 | 20SA07S4-PE | 93732010 |
| | 1 | 7 | 20SA1S4-PE | 93732015 |
| | 1.5 | 10 | 20SA15S4-PE | 93732020 |
| | 2 | 12 | 20SA2S4-PE | 93732025 |
| | 3 | 16 | 20SA3S4-PE | 93732030 |
| | 5 | 26 | 20SA5S4-PE | 93732035 |
| | 7.5 | 39 | 20SA7S4-PE | 93732040 |
| 25 | 10 | 52 | 20SA10S4-PE | 93732045 |
| | 1 | 6 | 25SA1S4-PE | 93732515 |
| | 1.5 | 8 | 25SA15S4-PE | 93732520 |
| | 2 | 10 | 25SA2S4-PE | 93732525 |
| | 3 | 14 | 25SA3S4-PE | 93732530 |
| | 5 | 23 | 25SA5S4-PE | 93732535 |
| | 7.5 | 35 | 25SA7S4-PE | 93732540 |
| | 10 | 44 | 25SA10S4-PE | 93732545 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

4" TRI-SEAL PUMPS - 10 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 10 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|--|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) | |
| 1/2 | 0 | | | | 14 | 13 | 12 | 11 | 10 | 9 | 7 | | | | | | | | | | | | | | 244 | |
| | 20 | 14 | 13 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | |
| | 30 | 13 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | | |
| | 40 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | | | |
| | 50 | 12 | 11 | 9 | 8 | 5 | 3 | | | | | | | | | | | | | | | | | | | |
| | 60 | 11 | 10 | 7 | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 80 | 8 | 6 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 97 | 88 | 80 | 71 | 62 | 54 | 45 | 36 | 28 | 19 | | | | | | 62 | | | | | | | | | |
| 3/4 | 0 | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 7 | 8 | 4 | | | | | | | | | | | 338 | |
| | 20 | | 14 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 6 | 4 | | | | | | | | | | | | | |
| | 30 | 14 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 3 | | | | | | | | | | | | | | |
| | 40 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | | | | | | |
| | 50 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | | | | | | | | | |
| | 60 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | | | | | | | | | | | | | | | | | |
| | 80 | 11 | 10 | 9 | 8 | 6 | 5 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 137 | 129 | 120 | 111 | 103 | 94 | 85 | 77 | 68 | 59 | 42 | 34 | 16 | | | | | | | | | | | | |
| 1 | 0 | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 7 | 4 | | | | | | | | | 444 | |
| | 20 | | | | | 14 | 13 | 13 | 12 | 11 | 11 | 9 | 9 | 7 | 3 | | | | | | | | | | | |
| | 30 | | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | | | | | | | | | | | | |
| | 40 | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | | | | | | | | | | | | |
| | 50 | | 14 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | | | | |
| | 60 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 5 | 4 | | | | | | | | | | | | | |
| | 80 | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 183 | 174 | 157 | 148 | 140 | 131 | 123 | 114 | 105 | 97 | 79 | 71 | 53 | 27 | 10 | | | | | | | | | | |
| 1.5 | 0 | | | | | | | | 14 | 13 | 13 | 12 | 12 | 10 | 9 | 9 | 8 | 7 | | | | | | | 615 | |
| | 20 | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 9 | 8 | 7 | 6 | 5 | | | | | | | |
| | 30 | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 8 | 8 | 6 | 5 | 4 | | | | | | | |
| | 40 | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 8 | 7 | 6 | 4 | | | | | | | | |
| | 50 | | | | 14 | 13 | 13 | 12 | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 6 | 5 | 3 | | | | | | | | |
| | 60 | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 9 | 7 | 6 | 4 | | | | | | | | | |
| | 80 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 6 | 3 | | | | | | | | | | |
| Shut-off PSI | | 257 | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93 | 75 | 41 | 32 | | | | | | | |
| 2 | 0 | | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 6 | | | | | 770 | |
| | 20 | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 8 | 5 | | | | | | |
| | 30 | | | | | | | | 14 | 13 | 13 | 13 | 12 | 12 | 10 | 10 | 9 | 8 | 8 | 4 | | | | | | |
| | 40 | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 3 | | | | | | | |
| | 50 | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | |
| | 60 | | | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | | | | | | | | |
| | 80 | | | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 4 | 4 | | | | | | | | |
| Shut-off PSI | | 324 | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125 | 117 | 73 | | | | | | |
| 3 | 0 | | | | | | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 9 | 7 | 5 | | 1034 | |
| | 20 | | | | | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 12 | 10 | 8 | 6 | 3 | | | |
| | 30 | | | | | | | | | | | | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 8 | 5 | | | | |
| | 40 | | | | | | | | | | | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 9 | 7 | 4 | | | | |
| | 50 | | | | | | | | | 14 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 11 | 9 | 7 | 4 | | | | | |
| | 60 | | | | | | | | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 6 | 3 | | | | | |
| | 80 | | | | | | | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 8 | 5 | | | | | | |
| Shut-off PSI | | 438 | 430 | 421 | 413 | 404 | 395 | 387 | 378 | 369 | 361 | 343 | 335 | 317 | 291 | 274 | 257 | 240 | 231 | 188 | 144 | 101 | 58 | | | |

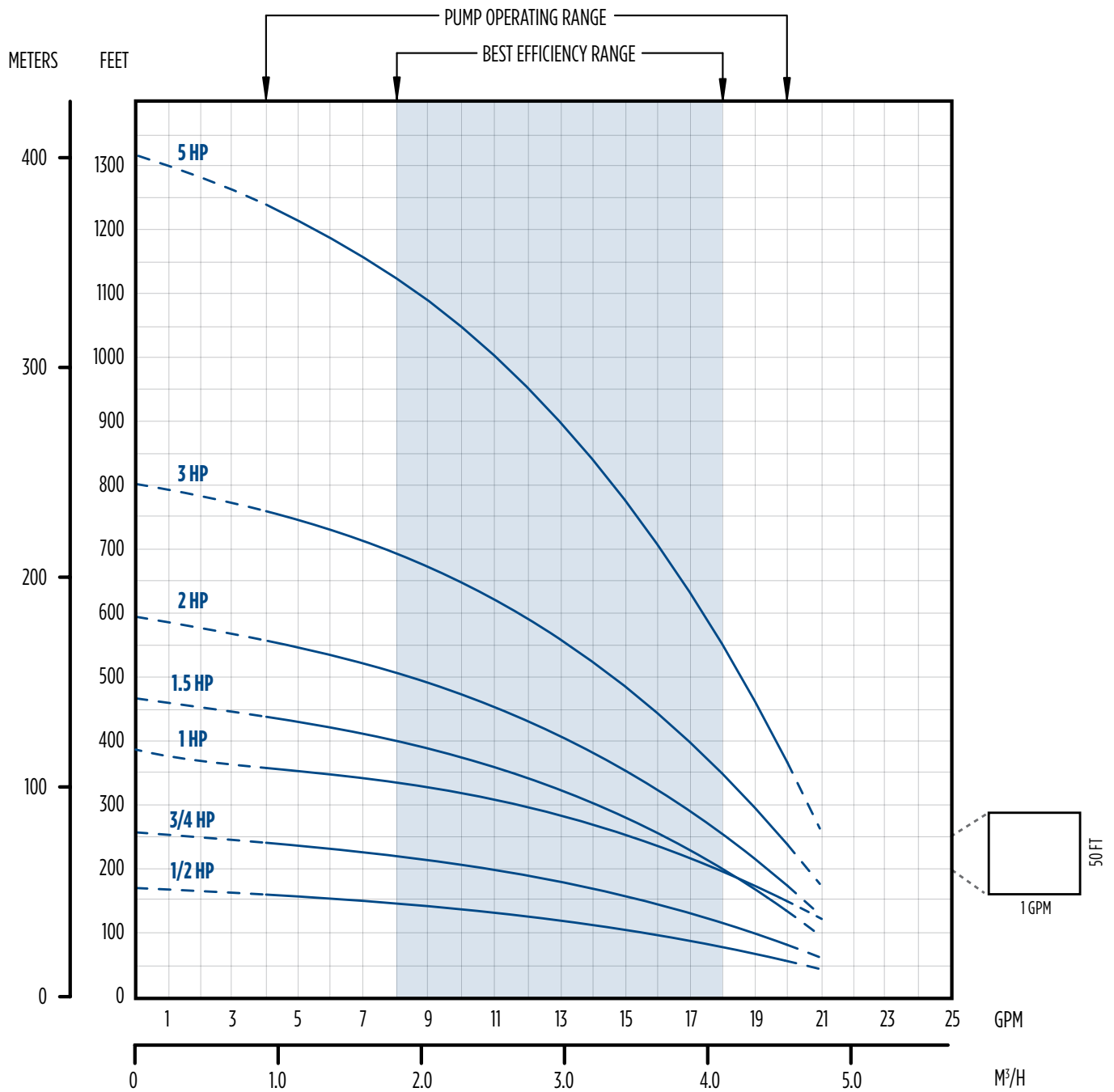
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

| HP | PSI | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 5 | 0 | | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | 1310 |
| | 20 | | | | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | |
| | 30 | | | | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 4 | |
| | 40 | | | | 14 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | |
| | 50 | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 7 | 6 | 3 | |
| | 60 | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | |
| | 80 | | 14 | | 14 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | |
| Shut-off PSI | | 670 | 626 | 583 | 540 | 497 | 453 | 410 | 367 | 324 | 280 | 237 | 194 | 151 | 107 | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" TRI-SEAL PUMPS - 15 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 15 GPM

PERFORMANCE

[illegible][illegible]

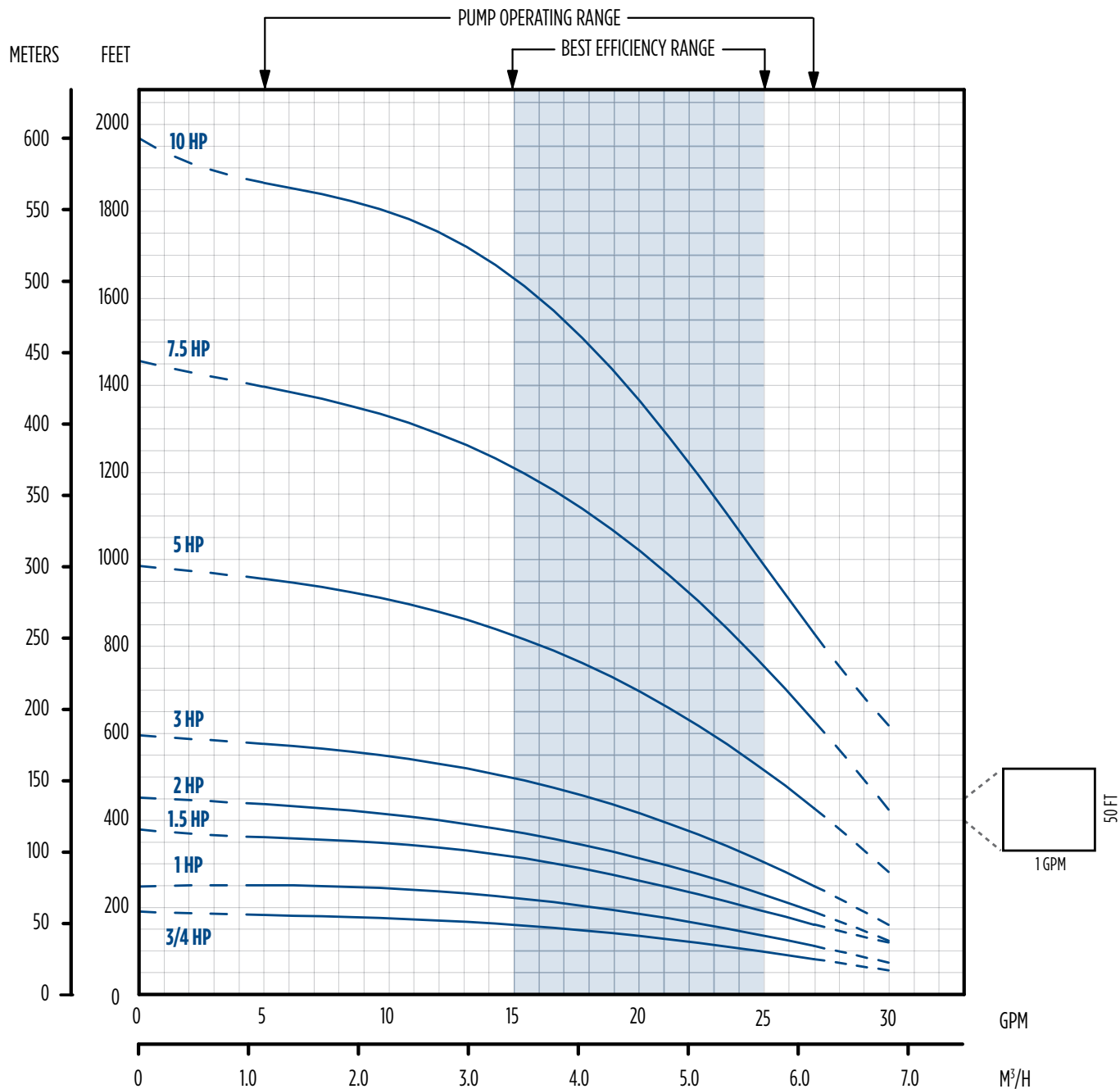
| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------|------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | | 1200 |
| 1.5 | 0 | | | | | | 20 | 20 | 19 | 19 | 18 | 17 | 16 | 14 | 11 | 8 | 4 | | | | | | | | | | 467 |
| | 20 | | | | 20 | 20 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 12 | 7 | | | | | | | | | | | | |
| | 30 | | | 20 | 20 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 13 | 10 | 5 | | | | | | | | | | | | |
| | 40 | | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 15 | 15 | 13 | 11 | 9 | | | | | | | | | | | | | |
| | 50 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 11 | 10 | 7 | | | | | | | | | | | | | |
| | 60 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 12 | 10 | 8 | 4 | | | | | | | | | | | | | |
| | 80 | 18 | 17 | 16 | 16 | 15 | 14 | 13 | 12 | 11 | 9 | 6 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 193 | 185 | 176 | 167 | 159 | 150 | 141 | 133 | 124 | 115 | 98 | 89 | 72 | 46 | 29 | 11 | | | | | | | | | | |
| 2 | 0 | | | | | | | | 20 | 20 | 19 | 18 | 18 | 17 | 15 | 13 | 12 | 10 | 8 | | | | | | | 594 | |
| | 20 | | | | | | 20 | 20 | 19 | 19 | 18 | 17 | 17 | 15 | 13 | 11 | 9 | 7 | 5 | | | | | | | | |
| | 30 | | | | | 20 | 20 | 19 | 19 | 18 | 18 | 16 | 16 | 14 | 12 | 10 | 8 | 5 | | | | | | | | | |
| | 40 | | | | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 11 | 9 | 6 | | | | | | | | | | |
| | 50 | | 20 | 20 | 19 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 10 | 7 | 4 | | | | | | | | | | |
| | 60 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 14 | 13 | 12 | 9 | 6 | | | | | | | | | | | |
| | 80 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 15 | 15 | 14 | 12 | 11 | 9 | 5 | | | | | | | | | | | | |
| Shut-off PSI | | 249 | 240 | 231 | 223 | 214 | 205 | 197 | 188 | 179 | 171 | 153 | 145 | 127 | 101 | 84 | 67 | 49 | 41 | | | | | | | | |
| 3 | 0 | | | | | | | | | | | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 15 | 12 | 8 | | | | | 802 | |
| | 20 | | | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 10 | 5 | | | | | | |
| | 30 | | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 16 | 15 | 14 | 13 | 13 | 9 | | | | | | | |
| | 40 | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 8 | | | | | | | |
| | 50 | | | | | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 17 | 15 | 14 | 13 | 12 | 11 | 7 | | | | | | | |
| | 60 | | | | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 12 | 11 | 10 | 5 | | | | | | | |
| | 80 | 20 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 16 | 15 | 13 | 12 | 11 | 9 | 8 | | | | | | | | | |
| Shut-off PSI | | 339 | 330 | 321 | 313 | 304 | 295 | 287 | 278 | 269 | 261 | 243 | 235 | 217 | 191 | 174 | 157 | 139 | 131 | 87 | 44 | | | | | | |

[illegible]

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" TRI-SEAL PUMPS - 20 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 20 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | |
| 3/4 | 0 | | | | 24 | 22 | 21 | 18 | 14 | | | | | | | | | | | | | | | | 190 |
| | 20 | | 23 | 21 | 19 | 17 | 12 | | | | | | | | | | | | | | | | | | |
| | 30 | 23 | 21 | 19 | 17 | 11 | | | | | | | | | | | | | | | | | | | |
| | 40 | 21 | 19 | 17 | 10 | | | | | | | | | | | | | | | | | | | | |
| | 50 | 19 | 16 | 10 | | | | | | | | | | | | | | | | | | | | | |
| | 60 | 14 | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 74 | 65 | 56 | 48 | 39 | 30 | 22 | 13 | | | | | | | | | | | | | | | | |
| 1 | 0 | | | | | | 26 | 25 | 23 | 20 | 18 | 11 | | | | | | | | | | | | | 251 |
| | 20 | | | 27 | 26 | 24 | 22 | 20 | 18 | 15 | 8 | | | | | | | | | | | | | | |
| | 30 | | 27 | 26 | 24 | 22 | 19 | 17 | 14 | 7 | | | | | | | | | | | | | | | |
| | 40 | 27 | 25 | 23 | 21 | 19 | 17 | 13 | | | | | | | | | | | | | | | | | |
| | 50 | 25 | 23 | 21 | 19 | 16 | 12 | | | | | | | | | | | | | | | | | | |
| | 60 | 23 | 21 | 18 | 16 | 11 | | | | | | | | | | | | | | | | | | | |
| 1.5 | 0 | | | | | | | | 27 | 26 | 24 | 22 | 20 | 17 | 6 | | | | | | | | | | 379 |
| | 20 | | | | | | 27 | 25 | 24 | 23 | 21 | 18 | 16 | 10 | | | | | | | | | | | |
| | 30 | | | | | 26 | 25 | 24 | 22 | 21 | 20 | 16 | 13 | | | | | | | | | | | | |
| | 40 | | | | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 13 | 8 | | | | | | | | | | | | |
| | 50 | | 27 | 26 | 25 | 23 | 22 | 21 | 19 | 17 | 15 | 7 | | | | | | | | | | | | | |
| | 60 | 27 | 26 | 24 | 23 | 22 | 20 | 19 | 17 | 15 | 11 | | | | | | | | | | | | | | |
| 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 453 |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | 24 | 23 | 22 | 20 | 19 | 16 | | | | | | | | | | | |
| | 40 | | | | | | | 24 | 23 | 22 | 21 | 19 | 17 | 14 | 10 | | | | | | | | | | |
| | 50 | | | | | | 24 | 23 | 22 | 20 | 19 | 16 | 14 | 10 | | | | | | | | | | | |
| | 60 | | | | | 24 | 23 | 22 | 20 | 19 | 18 | 14 | 12 | | | | | | | | | | | | |
| 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 601 |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | 24 | 23 | 22 | 20 | 19 | 16 | | | | | | | | | | | |
| | 40 | | | | | | | | 24 | 23 | 22 | 21 | 19 | 17 | 14 | 11 | | | | | | | | | |
| | 50 | | | | | | | | 24 | 23 | 22 | 21 | 19 | 16 | 13 | | | | | | | | | | |
| | 60 | | | | | | | | 24 | 24 | 23 | 21 | 20 | 18 | 14 | 10 | | | | | | | | | |
| 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 770 |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 416 | 408 | 399 | 390 | 382 | 373 | 364 | 356 | 347 | 339 | 321 | 313 | 295 | 269 | 252 | 235 | 217 | 209 | 165 | 122 | 79 | | | |

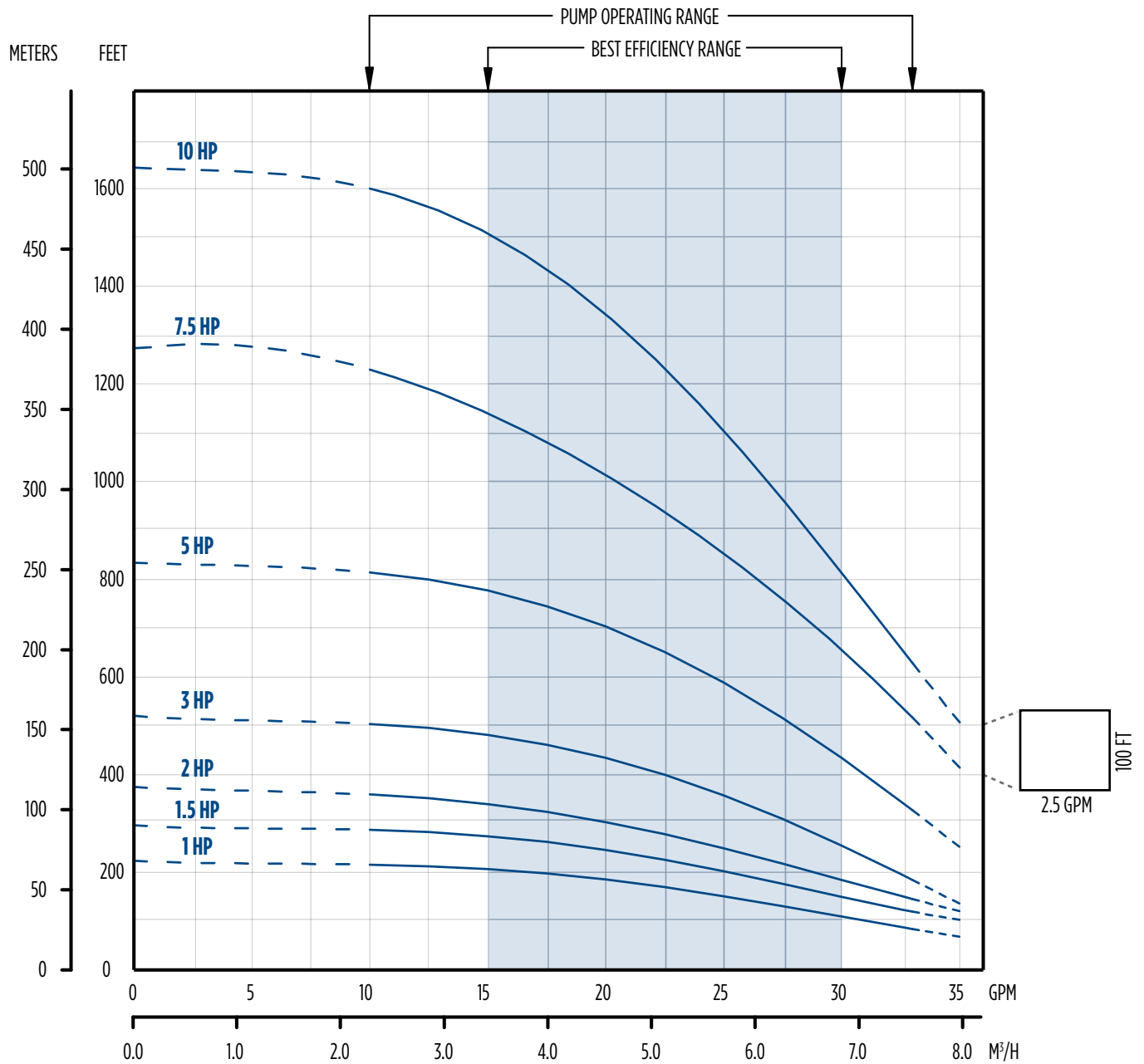
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

| HP | PSI | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|---------------|
| 7.5 | 0 | | | | 27 | 26 | 24 | 22 | 20 | 18 | 15 | 11 | 5 | | | | | | 170 |
| | 20 | | | | 27 | 25 | 23 | 22 | 19 | 17 | 14 | 9 | | | | | | | |
| | 30 | | | | 26 | 25 | 23 | 21 | 19 | 16 | 13 | 7 | | | | | | | |
| | 40 | | | | 26 | 24 | 23 | 21 | 18 | 16 | 12 | 6 | | | | | | | |
| | 50 | | | | 26 | 24 | 22 | 20 | 18 | 15 | 11 | | | | | | | | |
| | 60 | | 27 | 27 | 25 | 24 | 22 | 20 | 17 | 14 | 9 | | | | | | | | |
| 10 | 0 | 27 | 26 | 26 | 24 | 23 | 21 | 19 | 16 | 12 | 6 | | | | | | | | 257 |
| | 20 | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | 26 | 25 | 23 | 22 | 21 | 20 | 18 | 16 | 14 | 10 | | | |
| | 50 | | | | | 27 | 26 | 24 | 23 | 22 | 21 | 20 | 18 | 16 | 13 | 8 | | | |
| | 60 | | | | | 27 | 26 | 24 | 23 | 22 | 21 | 19 | 18 | 15 | 12 | 7 | | | |
| Shut-off PSI | | 662 | 644 | 636 | 592 | 549 | 506 | 462 | 419 | 376 | 333 | 289 | 246 | 203 | 159 | 116 | 73 | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" TRI-SEAL PUMPS - 25 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 25 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|-----|--|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) | | |
| 1 | 0 | | | 35 | 33 | 31 | 28 | 26 | 24 | 21 | 17 | | | | | | | | | | | | | | | 222 | |
| | 20 | | 32 | 30 | 28 | 25 | 22 | 18 | 15 | | | | | | | | | | | | | | | | | | |
| | 30 | 32 | 29 | 27 | 25 | 22 | 19 | | | | | | | | | | | | | | | | | | | | |
| | 40 | 29 | 27 | 25 | 22 | 19 | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 26 | 24 | 21 | 16 | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | 24 | 21 | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 87 | 79 | 70 | 61 | 53 | 44 | 35 | 27 | 18 | 10 | | | | | | | | | | | | | | | | |
| 1.5 | 0 | | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | | 21 | 19 | | | | | | | | | | | | 297 | |
| | 20 | | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | | | | | | | | | | | | | | | | |
| | 30 | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | 16 | | | | | | | | | | | | | | | | |
| | 40 | 33 | 32 | 29 | 27 | 25 | 23 | 21 | 19 | 15 | | | | | | | | | | | | | | | | | |
| | 50 | 32 | 29 | 27 | 25 | 23 | 21 | 18 | | | | | | | | | | | | | | | | | | | |
| | 60 | 29 | 27 | 25 | 23 | 20 | 18 | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 120 | 111 | 103 | 94 | 85 | 77 | 68 | 59 | 51 | 42 | 25 | 16 | | | | | | | | | | | | | | |
| 2 | 0 | | | | 34 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 20 | | | | | | | | | | | | | 375 | |
| | 20 | | | | 34 | 33 | 31 | 29 | 28 | 26 | 25 | 21 | 20 | | | | | | | | | | | | | | |
| | 30 | | | 34 | 33 | 31 | 29 | 28 | 26 | 24 | 23 | 19 | 17 | | | | | | | | | | | | | | |
| | 40 | | 34 | 33 | 31 | 29 | 28 | 26 | 24 | 23 | 21 | 17 | | | | | | | | | | | | | | | |
| | 50 | 33 | 32 | 30 | 29 | 27 | 26 | 24 | 22 | 20 | 18 | | | | | | | | | | | | | | | | |
| | 60 | 32 | 30 | 28 | 27 | 26 | 24 | 22 | 20 | 18 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 154 | 145 | 136 | 128 | 119 | 110 | 102 | 93 | 84 | 76 | 58 | 50 | 32 | | | | | | | | | | | | | |
| 3 | 0 | | | | | | | | | 33 | 32 | 30 | 29 | 28 | 24 | 22 | 19 | 15 | | | | | | | | 519 | |
| | 20 | | | | | | 33 | 32 | 32 | 31 | 30 | 28 | 27 | 25 | 22 | 19 | | | | | | | | | | | |
| | 30 | | | | | 33 | 32 | 32 | 31 | 30 | 29 | 27 | 26 | 24 | 20 | | | | | | | | | | | | |
| | 40 | | | | 33 | 32 | 32 | 31 | 30 | 29 | 28 | 26 | 25 | 22 | 18 | | | | | | | | | | | | |
| | 50 | | | 33 | 32 | 31 | 31 | 30 | 29 | 28 | 27 | 24 | 23 | 21 | 15 | | | | | | | | | | | | |
| | 60 | | 33 | 32 | 31 | 31 | 30 | 29 | 28 | 26 | 25 | 23 | 22 | 19 | | | | | | | | | | | | | |
| Shut-off PSI | | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 20 | 19 | 15 | | | | | | | | | | | | | |
| Shut-off PSI | | 216 | 207 | 199 | 190 | 181 | 173 | 164 | 155 | 147 | 138 | 121 | 112 | 95 | 69 | 52 | 34 | 17 | | | | | | | | | |
| 5 | 0 | | | | | | | | | | | | 33 | 32 | 31 | 30 | 28 | 28 | 24 | 20 | | | | | | 833 | |
| | 20 | | | | | | | | | | | | 33 | 32 | 30 | 30 | 28 | 27 | 26 | 22 | 17 | | | | | | |
| | 30 | | | | | | | | | | 33 | 33 | 31 | 30 | 28 | 27 | 26 | 25 | 21 | 15 | | | | | | | |
| | 40 | | | | | | | | | 33 | 32 | 32 | 31 | 29 | 28 | 27 | 25 | 24 | 20 | | | | | | | | |
| | 50 | | | | | | | | 33 | 33 | 32 | 31 | 30 | 28 | 27 | 25 | 24 | 23 | 19 | | | | | | | | |
| | 60 | | | | | | | 33 | 33 | 32 | 31 | 31 | 30 | 28 | 26 | 25 | 23 | 22 | 18 | | | | | | | | |
| Shut-off PSI | | 352 | 343 | 326 | 317 | 309 | 300 | 291 | 283 | 274 | 257 | 248 | 231 | 205 | 187 | 170 | 153 | 144 | 101 | 58 | | | | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

| HP | PSI | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 7.5 | 0 | | | | | 33 | 33 | 31 | 29 | 26 | 23 | 20 | 17 | 12 | | | | | | 1281 |
| | 20 | | | | 33 | 32 | 32 | 31 | 28 | 25 | 22 | 19 | 15 | | | | | | | |
| | 30 | | | 33 | 33 | 32 | 32 | 30 | 27 | 24 | 21 | 18 | 14 | | | | | | | |
| | 40 | | | 33 | 32 | 32 | 31 | 29 | 27 | 24 | 21 | 17 | 12 | | | | | | | |
| | 50 | | 33 | 33 | 32 | 31 | 31 | 29 | 26 | 23 | 20 | 17 | | | | | | | | |
| | 60 | | 33 | 32 | 32 | 31 | 31 | 28 | 25 | 22 | 19 | 16 | | | | | | | | |
| Shut-off PSI | | 425 | 399 | 382 | 364 | 347 | 338 | 295 | 252 | 208 | 165 | 122 | 78 | 35 | | | | | | |
| 10 | 0 | | | | | | | 33 | 32 | 30 | 29 | 27 | 25 | 23 | 21 | 19 | 15 | 10 | | 1642 |
| | 20 | | | | | | | 33 | 31 | 30 | 28 | 26 | 24 | 22 | 20 | 17 | 13 | | | |
| | 30 | | | | | | | 32 | 31 | 29 | 27 | 26 | 24 | 22 | 19 | 17 | 12 | | | |
| | 40 | | | | | | 33 | 32 | 30 | 29 | 27 | 25 | 23 | 21 | 19 | 16 | 10 | | | |
| | 50 | | | | | 33 | 33 | 32 | 30 | 28 | 27 | 25 | 23 | 21 | 18 | 15 | | | | |
| | 60 | | | | | 33 | 33 | 31 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 14 | | | | |
| Shut-off PSI | | 581 | 555 | 538 | 520 | 503 | 494 | 451 | 408 | 365 | 321 | 278 | 235 | 191 | 148 | 105 | 61 | 18 | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

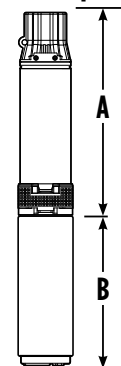
4" TRI-SEAL PUMPS - DIMENSIONS

THERMOPLASTIC

| GPM | HP | Stages | 2-Wire | | | | | | 3-Wire | | | | | |
|-----|-----|--------|-----------------|-------|-------|-----------|-----|--|-----------------|-------|-------|-----------|-----|--|
| | | | Dimensions (in) | | | Wt. (lbs) | | | Dimensions (in) | | | Wt. (lbs) | | |
| | | | A | B | C | PE | PMA | | A | B | C | PE | PMA | |
| 5 | 1/2 | 8 | 14.12 | 9.51 | 23.63 | 8 | 26 | | 14.12 | 9.51 | 23.63 | 8 | 26 | |
| | 3/4 | 12 | 17.41 | 10.64 | 28.05 | 9 | 30 | | 17.41 | 10.64 | 28.05 | 9 | 30 | |
| | 1 | 15 | 19.87 | 11.73 | 31.60 | 10 | 34 | | 19.87 | 11.73 | 31.60 | 10 | 34 | |
| | 1.5 | 21 | 24.81 | 15.10 | 39.91 | 12 | 43 | | 24.81 | 13.60 | 38.41 | 12 | 40 | |
| 7 | 1/2 | 7 | 13.30 | 9.51 | 22.81 | 7 | 25 | | 13.30 | 9.51 | 22.81 | 7 | 26 | |
| | 3/4 | 10 | 15.76 | 10.64 | 26.40 | 8 | 29 | | 15.76 | 10.64 | 26.40 | 8 | 29 | |
| | 1 | 13 | 18.23 | 11.73 | 29.96 | 10 | 34 | | 18.23 | 11.73 | 29.96 | 10 | 34 | |
| | 1.5 | 18 | 22.34 | 15.10 | 37.44 | 11 | 42 | | 22.34 | 13.60 | 35.94 | 11 | 39 | |
| 10 | 1/2 | 6 | 12.97 | 9.51 | 22.48 | 7 | 25 | | 12.97 | 9.51 | 22.48 | 7 | 26 | |
| | 3/4 | 8 | 14.69 | 10.64 | 25.33 | 8 | 29 | | 14.69 | 10.64 | 25.33 | 8 | 29 | |
| | 1 | 11 | 17.44 | 11.73 | 29.17 | 9 | 33 | | 17.44 | 11.73 | 29.17 | 9 | 33 | |
| | 1.5 | 15 | 21.06 | 15.10 | 36.16 | 10 | 41 | | 21.06 | 13.60 | 34.66 | 10 | 38 | |
| 15 | 1/2 | 4 | 11.45 | 9.51 | 20.96 | 6 | 24 | | 11.45 | 9.51 | 20.96 | 6 | 25 | |
| | 3/4 | 6 | 12.97 | 10.64 | 23.61 | 7 | 28 | | 12.97 | 10.64 | 23.61 | 7 | 28 | |
| | 1 | 8 | 14.69 | 11.73 | 26.42 | 8 | 32 | | 14.69 | 11.73 | 26.42 | 8 | 32 | |
| | 1.5 | 11 | 17.44 | 15.10 | 32.54 | 9 | 40 | | 17.44 | 13.60 | 31.04 | 9 | 37 | |
| 20 | 3/4 | 5 | 13.65 | 10.64 | 24.29 | 6 | 28 | | 13.65 | 10.64 | 24.29 | 6 | 28 | |
| | 1 | 7 | 16.10 | 11.73 | 26.42 | 8 | 32 | | 16.10 | 11.73 | 27.83 | 7 | 31 | |
| | 1.5 | 10 | 19.77 | 15.10 | 34.87 | 8 | 39 | | 19.77 | 13.60 | 33.37 | 8 | 36 | |
| 25 | 1 | 6 | 14.88 | 11.73 | 26.61 | 7 | 31 | | 14.88 | 11.73 | 26.61 | 7 | 31 | |
| | 1.5 | 8 | 17.32 | 15.10 | 32.42 | 8 | 39 | | 17.32 | 15.10 | 30.92 | 8 | 36 | |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Thermoplastic



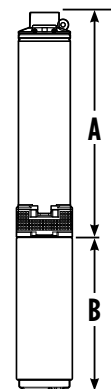
4" TRI-SEAL PUMPS - DIMENSIONS

STAINLESS STEEL

| GPM | HP | Stages | 2-Wire | | | | | 3-Wire | | | | |
|-----|-----|--------|-----------------|-------|-------|-----------|-----|-----------------|-------|--------|-----------|-----|
| | | | Dimensions (in) | | | Wt. (lbs) | | Dimensions (in) | | | Wt. (lbs) | |
| | | | A | B | C | PE | PMA | A | B | C | PE | PMA |
| 5 | 1/2 | 8 | 13.57 | 9.51 | 23.08 | 10 | 28 | 13.57 | 9.51 | 23.08 | 10 | 29 |
| | 3/4 | 12 | 16.86 | 10.64 | 27.50 | 12 | 33 | 16.86 | 10.64 | 27.50 | 12 | 33 |
| | 1 | 15 | 19.33 | 11.73 | 31.06 | 14 | 38 | 19.33 | 11.73 | 31.06 | 14 | 38 |
| | 1.5 | 21 | 24.26 | 15.10 | 39.36 | 17 | 48 | 24.26 | 13.60 | 37.86 | 17 | 45 |
| | 2 | 26 | | | | | | 30.46 | 15.10 | 45.56 | 20 | - |
| 7 | 1/2 | 7 | 12.75 | 9.51 | 22.26 | 9 | 27 | 12.75 | 9.51 | 22.26 | 9 | 28 |
| | 3/4 | 10 | 15.22 | 10.64 | 25.86 | 11 | 32 | 15.22 | 10.64 | 25.86 | 11 | 32 |
| | 1 | 13 | 17.68 | 11.73 | 29.41 | 13 | 37 | 17.68 | 11.73 | 29.41 | 13 | 37 |
| | 1.5 | 18 | 21.80 | 15.10 | 36.90 | 15 | 46 | 21.80 | 13.60 | 35.40 | 15 | 43 |
| | 2 | 24 | - | - | - | - | - | 26.73 | 15.10 | 41.83 | 19 | - |
| | 3 | 32 | - | - | - | - | - | 35.39 | 19.04 | 54.43 | 23 | - |
| 10 | 1/2 | 6 | 12.39 | 9.51 | 21.90 | 7 | 25 | 12.39 | 9.51 | 21.90 | 9 | 28 |
| | 3/4 | 8 | 14.14 | 10.64 | 24.78 | 10 | 31 | 14.14 | 10.64 | 24.78 | 10 | 31 |
| | 1 | 11 | 16.85 | 11.73 | 28.58 | 11 | 35 | 16.85 | 11.73 | 28.58 | 11 | 35 |
| | 1.5 | 15 | 20.48 | 15.10 | 35.58 | 14 | 45 | 20.48 | 13.60 | 34.08 | 14 | 42 |
| | 2 | 18 | - | - | - | - | - | 25.26 | 15.10 | 40.36 | 15 | - |
| | 3 | 19 | - | - | - | - | - | 26.17 | 19.04 | 45.21 | 16 | - |
| | 5 | 31 | - | - | - | - | - | 37.00 | 29.19 | 66.19 | 23 | - |
| 15 | 1/2 | 4 | 10.64 | 9.51 | 20.15 | 7 | 25 | 10.64 | 9.51 | 20.15 | 7 | 26 |
| | 3/4 | 6 | 12.39 | 10.64 | 23.03 | 9 | 30 | 12.39 | 10.64 | 23.03 | 9 | 30 |
| | 1 | 8 | 14.14 | 11.73 | 25.87 | 10 | 34 | 14.14 | 11.73 | 25.87 | 10 | 34 |
| | 1.5 | 11 | 16.85 | 15.10 | 31.95 | 11 | 42 | 16.85 | 13.60 | 30.45 | 11 | 39 |
| | 2 | 14 | - | - | - | - | - | 19.57 | 15.10 | 34.67 | 13 | - |
| | 3 | 19 | - | - | - | - | - | 26.17 | 19.04 | 45.21 | 16 | - |
| 20 | 5 | 31 | - | - | - | - | - | 37.00 | 29.19 | 66.19 | 23 | - |
| | 3/4 | 5 | 13.10 | 10.64 | 23.74 | 8 | 29 | 13.10 | 10.64 | 23.74 | 8 | 29 |
| | 1 | 7 | 15.55 | 11.73 | 27.28 | 9 | 33 | 15.55 | 11.73 | 27.28 | 9 | 33 |
| | 1.5 | 10 | 19.22 | 15.10 | 34.32 | 11 | 42 | 19.22 | 13.60 | 32.82 | 11 | 39 |
| | 2 | 12 | - | - | - | - | - | 21.66 | 15.10 | 36.76 | 12 | - |
| | 3 | 16 | - | - | - | - | - | 26.55 | 19.04 | 45.59 | 14 | - |
| | 5 | 26 | - | - | - | - | - | 40.86 | 29.19 | 70.05 | 20 | - |
| 25 | 7.5 | 39 | - | - | - | - | - | 60.77 | 29.60 | 90.37 | 27 | - |
| | 10 | 52 | - | - | - | - | - | 76.66 | 32.60 | 109.26 | 35 | - |
| | 1 | 6 | 14.33 | 11.73 | 26.06 | 9 | 33 | 14.33 | 11.73 | 26.06 | 9 | 33 |
| | 1.5 | 8 | 16.77 | 15.10 | 31.87 | 10 | 41 | 16.77 | 13.60 | 30.37 | 10 | 38 |
| | 2 | 10 | - | - | - | - | - | 19.22 | 15.10 | 34.32 | 11 | - |
| | 3 | 14 | - | - | - | - | - | 24.11 | 19.04 | 43.15 | 13 | - |
| | 5 | 23 | - | - | - | - | - | 37.19 | 28.19 | 66.38 | 18 | - |
| 25 | 7.5 | 35 | - | - | - | - | - | 55.88 | 29.60 | 85.48 | 25 | - |
| | 10 | 44 | - | - | - | - | - | 66.88 | 32.60 | 99.48 | 30 | - |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Stainless Steel



4" SERIES V PUMPS

The standard Series Five submersible pump features unique hydraulics that improve efficiency and minimize wear even when pumping abrasives. Discharge and motor brackets are available in thermoplastic or stainless steel with a removable check valve system. Available in 5, 7, 10, 15, 20, and 25 gpm, 1/2 - 5 horsepower. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

FEATURES

- Six performance ranges: 5, 7, 10, 15, 20, and 25 gpm
- Horsepower ranges: 1/2 - 5
- Discharge head and motor bracket produced with industry-proven, engineered materials. Available in 300 Series stainless steel or high quality thermoplastic resins.
- Large wrench flat area on the discharge head for ease of installation
- Dry-run designed top bearing positively supports the 300 Series stainless steel 7/16" hex shaft
- Removable internal check valve
- Powered by Franklin Electric corrosion-resistant super stainless 4" submersible motors with lightning protection
- Maximum water temperature with proper flow is 120 °F/49 °C. Consult factory for details



UL 778
CSA 108
NSF/ANSI 372
NSF/ANSI 61 (Pump end only)

4" SERIES V PUMPS - ORDERING INFORMATION

THERMOPLASTIC ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | | 3-Wire | | | |
|-----|-----|--------|-------|----------------|----------|--------------|----------------|----------|--------------|-------------|
| | | | | Model | Order | Motor | Model | Order | Motor | Control Box |
| 5 | 1/2 | 8 | 115 | 5SV05P4-2W115 | 95300505 | 2445049004GS | 5SV05P4-3W115 | 95300530 | 2145049004GS | 2801044915 |
| | 1/2 | 8 | 230 | 5SV05P4-2W230 | 95300510 | 2445059004GS | 5SV05P4-3W230 | 95300535 | 2145059004GS | 2801054915 |
| | 3/4 | 12 | 230 | 5SV07P4-2W230 | 95300515 | 2445079004GS | 5SV07P4-3W230 | 95300540 | 2145079004GS | 2801074915 |
| | 1 | 15 | 230 | 5SV1P4-2W230 | 95300520 | 2445089003GS | 5SV1P4-3W230 | 95300545 | 2145089003GS | 2801084915 |
| | 1.5 | 21 | 230 | 5SV15P4-2W230 | 95300525 | 2443099004GS | 5SV15P4-3W230 | 95300550 | 2243009203GS | 2823008110 |
| 7 | 1/2 | 7 | 115 | 7SV05P4-2W115 | 95300705 | 2445049004GS | 7SV05P4-3W115 | 95300730 | 2145049004GS | 2801044915 |
| | 1/2 | 7 | 230 | 7SV05P4-2W230 | 95300710 | 2445059004GS | 7SV05P4-3W230 | 95300735 | 2145059004GS | 2801054915 |
| | 3/4 | 10 | 230 | 7SV07P4-2W230 | 95300715 | 2445079004GS | 7SV07P4-3W230 | 95300740 | 2145079004GS | 2801074915 |
| | 1 | 13 | 230 | 7SV1P4-2W230 | 95300720 | 2445089003GS | 7SV1P4-3W230 | 95300745 | 2145089003GS | 2801084915 |
| | 1.5 | 18 | 230 | 7SV15P4-2W230 | 95300725 | 2443099004GS | 7SV15P4-3W230 | 95300750 | 2243009203GS | 2823008110 |
| 10 | 1/2 | 6 | 115 | 10SV05P4-2W115 | 95301005 | 2445049004GS | 10SV05P4-3W115 | 95301030 | 2145049004GS | 2801044915 |
| | 1/2 | 6 | 230 | 10SV05P4-2W230 | 95301010 | 2445059004GS | 10SV05P4-3W230 | 95301035 | 2145059004GS | 2801054915 |
| | 3/4 | 8 | 230 | 10SV07P4-2W230 | 95301015 | 2445079004GS | 10SV07P4-3W230 | 95301040 | 2145079004GS | 2801074915 |
| | 1 | 11 | 230 | 10SV1P4-2W230 | 95301020 | 2445089003GS | 10SV1P4-3W230 | 95301045 | 2145089003GS | 2801084915 |
| | 1.5 | 15 | 230 | 10SV15P4-2W230 | 95301025 | 2443099004GS | 10SV15P4-3W230 | 95301050 | 2243009203GS | 2823008110 |
| 15 | 1/2 | 4 | 115 | 15SV05P4-2W115 | 95301505 | 2445049004GS | 15SV05P4-3W115 | 95301530 | 2145049004GS | 2801044915 |
| | 1/2 | 4 | 230 | 15SV05P4-2W230 | 95301510 | 2445059004GS | 15SV05P4-3W230 | 95301535 | 2145059004GS | 2801054915 |
| | 3/4 | 6 | 230 | 15SV07P4-2W230 | 95301515 | 2445079004GS | 15SV07P4-3W230 | 95301540 | 2145079004GS | 2801074915 |
| | 1 | 8 | 230 | 15SV1P4-2W230 | 95301520 | 2445089003GS | 15SV1P4-3W230 | 95301545 | 2145089003GS | 2801084915 |
| | 1.5 | 11 | 230 | 15SV15P4-2W230 | 95301525 | 2443099004GS | 15SV15P4-3W230 | 95301550 | 2243009203GS | 2823008110 |
| 20 | 3/4 | 5 | 230 | 20SV07P4-2W230 | 95302015 | 2445079004GS | 20SV07P4-3W230 | 95302040 | 2145079004GS | 2801074915 |
| | 1 | 7 | 230 | 20SV1P4-2W230 | 95302020 | 2445089003GS | 20SV1P4-3W230 | 95302045 | 2145089003GS | 2801084915 |
| | 1.5 | 10 | 230 | 20SV15P4-2W230 | 95302025 | 2443099004GS | 20SV15P4-3W230 | 95302050 | 2243009203GS | 2823008110 |
| 25 | 1 | 6 | 230 | 25SV1P4-2W230 | 95302520 | 2445089003GS | 25SV1P4-3W230 | 95302545 | 2145089003GS | 2801084915 |
| | 1.5 | 8 | 230 | 25SV15P4-2W230 | 95302525 | 2443099004GS | 25SV15P4-3W230 | 95302550 | 2243009203GS | 2823008110 |

STAINLESS STEEL ORDERING INFORMATION

| GPM | HP | Stages | Volts | 2-Wire | | | 3-Wire | | | |
|-----|-----|--------|-------|----------------|----------|--------------|----------------|----------|--------------|-------------|
| | | | | Model | Order | Motor | Model | Order | Motor | Control Box |
| 5 | 1/2 | 8 | 115 | 5SV05S4-2W115 | 95320505 | 2445049004GS | 5SV05S4-3W115 | 95320530 | 2145049004GS | 2801044915 |
| | 1/2 | 8 | 230 | 5SV05S4-2W230 | 95320510 | 2445059004GS | 5SV05S4-3W230 | 95320535 | 2145059004GS | 2801054915 |
| | 3/4 | 12 | 230 | 5SV07S4-2W230 | 95320515 | 2445079004GS | 5SV07S4-3W230 | 95320540 | 2145079004GS | 2801074915 |
| | 1 | 15 | 230 | 5SV1S4-2W230 | 95320520 | 2445089003GS | 5SV1S4-3W230 | 95320545 | 2145089003GS | 2801084915 |
| | 1.5 | 21 | 230 | 5SV15S4-2W230 | 95320525 | 2443099004GS | 5SV15S4-3W230 | 95320550 | 2243009203GS | 2823008110 |
| 7 | 1/2 | 7 | 115 | 7SV05S4-2W115 | 95320705 | 2445049004GS | 7SV05S4-3W115 | 95320730 | 2145049004GS | 2801044915 |
| | 1/2 | 7 | 230 | 7SV05S4-2W230 | 95320710 | 2445059004GS | 7SV05S4-3W230 | 95320735 | 2145059004GS | 2801054915 |
| | 3/4 | 10 | 230 | 7SV07S4-2W230 | 95320715 | 2445079004GS | 7SV07S4-3W230 | 95320740 | 2145079004GS | 2801074915 |
| | 1 | 13 | 230 | 7SV1S4-2W230 | 95320720 | 2445089003GS | 7SV1S4-3W230 | 95320745 | 2145089003GS | 2801084915 |
| | 1.5 | 18 | 230 | 7SV15S4-2W230 | 95320725 | 2443099004GS | 7SV15S4-3W230 | 95320750 | 2243009203GS | 2823008110 |
| 10 | 1/2 | 6 | 115 | 10SV05S4-2W115 | 95321005 | 2445049004GS | 10SV05S4-3W115 | 95321030 | 2145049004GS | 2801044915 |
| | 1/2 | 6 | 230 | 10SV05S4-2W230 | 95321010 | 2445059004GS | 10SV05S4-3W230 | 95321035 | 2145059004GS | 2801054915 |
| | 3/4 | 8 | 230 | 10SV07S4-2W230 | 95321015 | 2445079004GS | 10SV07S4-3W230 | 95321040 | 2145079004GS | 2801074915 |
| | 1 | 11 | 230 | 10SV1S4-2W230 | 95321020 | 2445089003GS | 10SV1S4-3W230 | 95321045 | 2145089003GS | 2801084915 |
| | 1.5 | 15 | 230 | 10SV15S4-2W230 | 95321025 | 2443099004GS | 10SV15S4-3W230 | 95321050 | 2243009203GS | 2823008110 |
| 15 | 1/2 | 4 | 115 | 15SV05S4-2W115 | 95321505 | 2445049004GS | 15SV05S4-3W115 | 95321530 | 2145049004GS | 2801044915 |
| | 1/2 | 4 | 230 | 15SV05S4-2W230 | 95321510 | 2445059004GS | 15SV05S4-3W230 | 95321535 | 2145059004GS | 2801054915 |
| | 3/4 | 6 | 230 | 15SV07S4-2W230 | 95321515 | 2445079004GS | 15SV07S4-3W230 | 95321540 | 2145079004GS | 2801074915 |
| | 1 | 8 | 230 | 15SV1S4-2W230 | 95321520 | 2445089003GS | 15SV1S4-3W230 | 95321545 | 2145089003GS | 2801084915 |
| | 1.5 | 11 | 230 | 15SV15S4-2W230 | 95321525 | 2443099004GS | 15SV15S4-3W230 | 95321550 | 2243009203GS | 2823008110 |
| 20 | 3/4 | 5 | 230 | 20SV07S4-2W230 | 95322015 | 2445079004GS | 20SV07S4-3W230 | 95322040 | 2145079004GS | 2801074915 |
| | 1 | 7 | 230 | 20SV1S4-2W230 | 95322020 | 2445089003GS | 20SV1S4-3W230 | 95322045 | 2145089003GS | 2801084915 |
| | 1.5 | 10 | 230 | 20SV15S4-2W230 | 95322025 | 2443099004GS | 20SV15S4-3W230 | 95322050 | 2243009203GS | 2823008110 |
| 25 | 1 | 6 | 230 | 25SV1S4-2W230 | 95322520 | 2445089003GS | 25SV1S4-3W230 | 95322545 | 2145089003GS | 2801084915 |
| | 1.5 | 8 | 230 | 25SV15S4-2W230 | 95322525 | 2443099004GS | 25SV15S4-3W230 | 95322550 | 2243009203GS | 2823008110 |

4" SERIES V PUMPS - ORDERING INFORMATION

THERMOPLASTIC PUMP ENDS

| GPM | HP | Stages | Model | Order |
|-----|------|--------|-------------|----------|
| 5 | 0.5 | 8 | 5SV05P4-PE | 95310500 |
| | 0.75 | 12 | 5SV07P4-PE | 95310501 |
| | 1 | 15 | 5SV1P4-PE | 95310502 |
| | 1.5 | 21 | 5SV15P4-PE | 95310503 |
| 7 | 0.5 | 7 | 7SV05P4-PE | 95310700 |
| | 0.75 | 10 | 7SV07P4-PE | 95310701 |
| | 1 | 13 | 7SV1P4-PE | 95310702 |
| | 1.5 | 18 | 7SV15P4-PE | 95310703 |
| 10 | 0.5 | 6 | 10SV05P4-PE | 95311000 |
| | 0.75 | 8 | 10SV07P4-PE | 95311001 |
| | 1 | 11 | 10SV1P4-PE | 95311002 |
| | 1.5 | 15 | 10SV15P4-PE | 95311003 |
| 15 | 0.5 | 4 | 15SV05P4-PE | 95311500 |
| | 0.75 | 6 | 15SV07P4-PE | 95311501 |
| | 1 | 9 | 15SV1P4-PE | 95311502 |
| | 1.5 | 11 | 15SV15P4-PE | 95311503 |
| 20 | 0.75 | 5 | 20SV07P4-PE | 95312001 |
| | 1 | 7 | 20SV1P4-PE | 95312002 |
| | 1.5 | 10 | 20SV15P4-PE | 95312003 |
| 25 | 1 | 6 | 25SV1P4-PE | 95312501 |
| | 1.5 | 8 | 25SV15P4-PE | 95312502 |

NOTES: Discharge is 1-1/4" NPT; Maximum diameter across cable guard is 3.90" on all models.

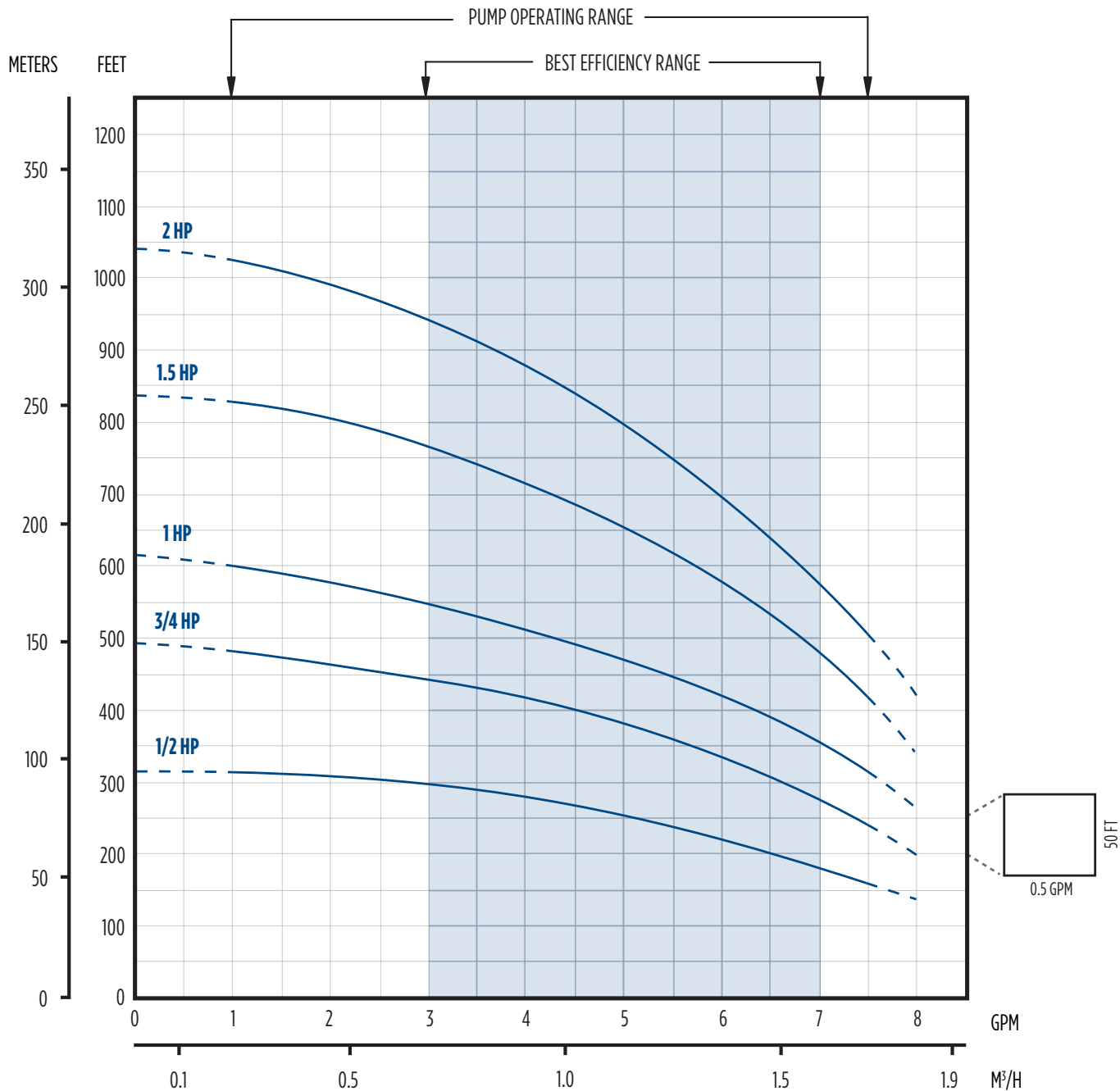
STAINLESS STEEL PUMP ENDS

| GPM | HP | Stg. | Model | Order |
|-----|------|------|-------------|----------|
| 5 | 0.5 | 8 | 5SV05S4-PE | 95330500 |
| | 0.75 | 12 | 5SV07S4-PE | 95330501 |
| | 1 | 15 | 5SV1S4-PE | 95330502 |
| | 1.5 | 21 | 5SV15S4-PE | 95330503 |
| | 2 | 26 | 5SV2S4-PE | 95330504 |
| 7 | 0.5 | 7 | 7SV05S4-PE | 95330700 |
| | 0.75 | 10 | 7SV07S4-PE | 95330701 |
| | 1 | 13 | 7SV1S4-PE | 95330702 |
| | 1.5 | 18 | 7SV15S4-PE | 95330703 |
| | 2 | 24 | 7SV2S4-PE | 95330704 |
| 10 | 3 | 32 | 7SV3S4-PE | 95330705 |
| | 0.5 | 6 | 10SV05S4-PE | 95331000 |
| | 0.75 | 8 | 10SV07S4-PE | 95331001 |
| | 1 | 11 | 10SV1S4-PE | 95331002 |
| | 1.5 | 15 | 10SV15S4-PE | 95331003 |
| 15 | 2 | 18 | 10SV2S4-PE | 95331004 |
| | 3 | 24 | 10SV3S4-PE | 95331005 |
| | 5 | 39 | 10SV5S4-PE | 95331006 |
| | 0.5 | 4 | 15SV05S4-PE | 95331500 |
| | 0.75 | 6 | 15SV07S4-PE | 95331501 |
| 20 | 1 | 9 | 15SV1S4-PE | 95331502 |
| | 1.5 | 11 | 15SV15S4-PE | 95331503 |
| | 2 | 14 | 15SV2S4-PE | 95331504 |
| | 3 | 19 | 15SV3S4-PE | 95331505 |
| | 5 | 31 | 15SV5S4-PE | 95331506 |
| 25 | 0.75 | 5 | 20SV07S4-PE | 95332001 |
| | 1 | 7 | 20SV1S4-PE | 95332002 |
| | 1.5 | 10 | 20SV15S4-PE | 95332003 |
| | 2 | 12 | 20SV2S4-PE | 95332004 |
| | 3 | 16 | 20SV3S4-PE | 95332005 |
| 25 | 5 | 26 | 20SV5S4-PE | 95332006 |
| | 1 | 6 | 25SV1S4-PE | 95332501 |
| | 1.5 | 8 | 25SV15S4-PE | 95332502 |
| | 2 | 10 | 25SV2S4-PE | 95332503 |
| | 3 | 14 | 25SV3S4-PE | 95332504 |
| 25 | 5 | 23 | 25SV5S4-PE | 95332505 |

NOTES: Discharge is 1-1/4" NPT; Maximum diameter across cable guard is 3.90" on all models.

4" SERIES V PUMPS - 5 GPM

PERFORMANCE



4" SERIES V PUMPS - 5 GPM

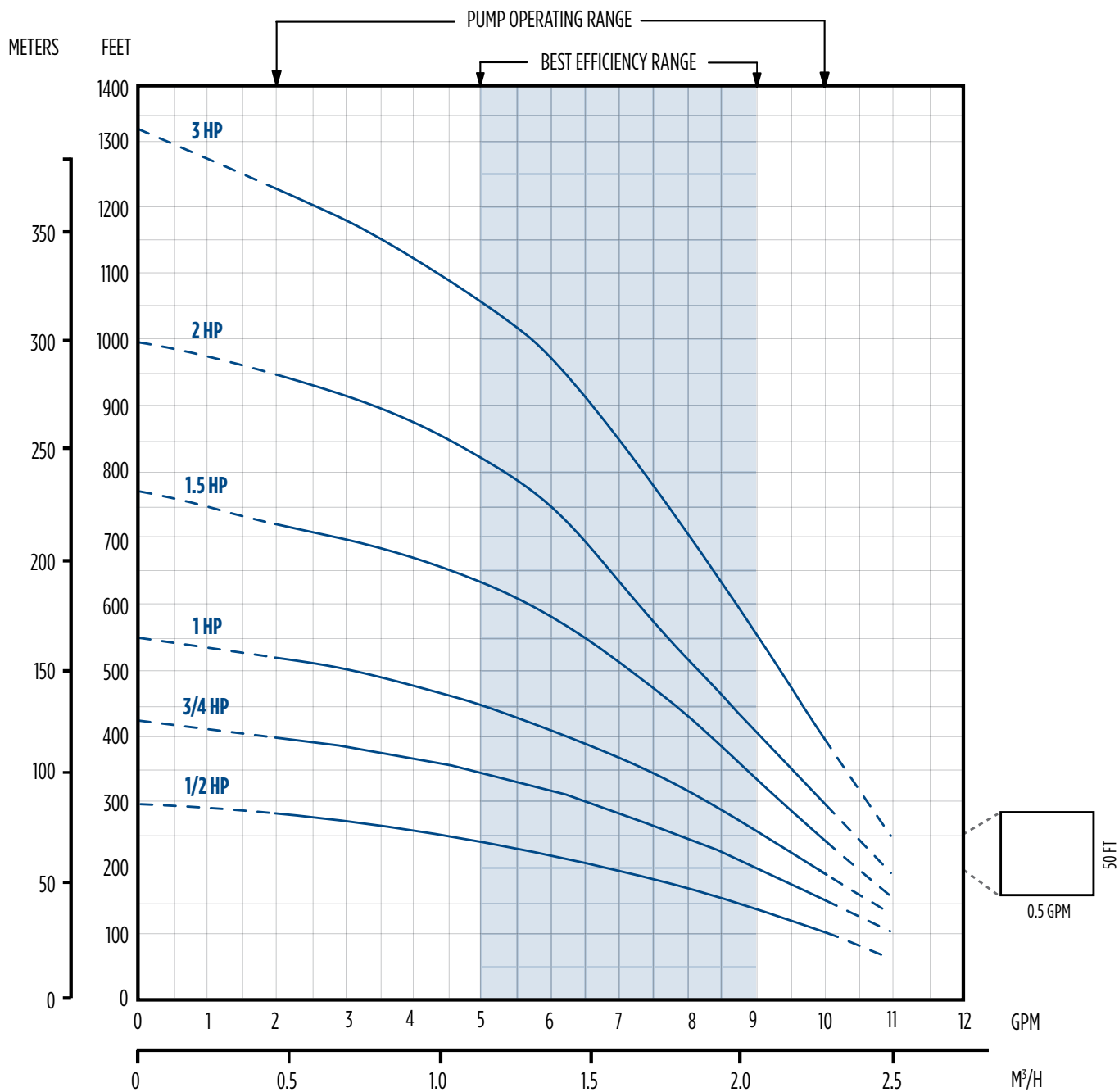
PERFORMANCE

| HP | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | | |
| 1/2 | 0 | | | | | | | 7 | 7 | 6 | 6 | 5 | 4 | | | | | | | | | | | | | 315 |
| | 20 | | | | | 8 | 7 | 6 | 6 | 5 | 5 | 3 | 2 | | | | | | | | | | | | | |
| | 30 | | | | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 2 | | | | | | | | | | | | | | |
| | 40 | | | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | | | | | | | | | | | | | | | |
| | 50 | | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 2 | | | | | | | | | | | | | | | | |
| | 60 | 7 | 7 | 6 | 6 | 5 | 4 | 4 | 2 | | | | | | | | | | | | | | | | | |
| | 80 | 6 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 127 | 119 | 110 | 101 | 93 | 84 | 75 | 67 | 58 | 49 | 32 | 23 | | | | | | | | | | | | | |
| 3/4 | 0 | | | | | | | | | | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | 495 |
| | 20 | | | | | | | | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | | | | | | | | | |
| | 30 | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 3 | | | | | | | | | | | |
| | 40 | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 2 | | | | | | | | | | | |
| | 50 | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | | | | | | | | | | | | |
| | 60 | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | | | | | | | | | | | | |
| | 80 | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | 3 | | | | | | | | | | | | | |
| Shut-off PSI | | 205 | 196 | 188 | 179 | 171 | 162 | 153 | 145 | 136 | 127 | 110 | 101 | 84 | 58 | 41 | 23 | | | | | | | | | |
| 1 | 0 | | | | | | | | | | | | 8 | 7 | 6 | 6 | 5 | 4 | 4 | | | | | | | 615 |
| | 20 | | | | | | | | | | | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | |
| | 30 | | | | | | | | | | 7 | 7 | 7 | 6 | 5 | 5 | 3 | 2 | | | | | | | | |
| | 40 | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | |
| | 50 | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 3 | | | | | | | | | | |
| | 60 | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | | | | | | | | | | | |
| | 80 | | | | | | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | | | | | | | | | | | | |
| Shut-off PSI | | 257 | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93 | 75 | 58 | 49 | | | | | | | |
| 1.5 | 0 | | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 2 | | | | 835 |
| | 20 | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 3 | | | | | |
| | 30 | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 4 | 3 | | | | |
| | 40 | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 2 | | | | | |
| | 50 | | | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 3 | | | | | | |
| | 60 | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 3 | | | | | | |
| | 80 | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 2 | | | | | | |
| Shut-off PSI | | 352 | 344 | 335 | 326 | 318 | 309 | 300 | 292 | 283 | 274 | 257 | 249 | 231 | 205 | 188 | 171 | 153 | 145 | 101 | 58 | 15 | | | | |
| 2 | 0 | | | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 5 | 4 | 3 | | | | 1040 |
| | 20 | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 5 | 4 | 2 | | | |
| | 30 | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 3 | | | |
| | 40 | | | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 3 | | | |
| | 50 | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | | | |
| | 60 | | | | | | | | | | | | | | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 3 | | | |
| | 80 | | | | | | | | | | | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 3 | | | | | |
| Shut-off PSI | | 441 | 432 | 424 | 415 | 406 | 398 | 389 | 381 | 372 | 363 | 346 | 337 | 320 | 294 | 277 | 259 | 242 | 233 | 190 | 147 | 104 | 60 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

4" SERIES V PUMPS - 7 GPM

PERFORMANCE



4" SERIES V PUMPS - 7 GPM

PERFORMANCE

| HP | PSI | Depth To Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|--------|--|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) | | |
| 1/2 | 0 | | | | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | | | | | | | | | | | | | 300 | |
| | 20 | | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | | | | | | | | | | | | | | | | |
| | 30 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | |
| | 40 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | |
| | 50 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | | |
| | 60 | 8 | 7 | 6 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | | | |
| | 80 | 6 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 121 | 112 | 103 | 95 | 86 | 77 | 69 | 60 | 52 | 43 | 26 | 17 | | | | | | | | | | | | | | |
| 3/4 | 0 | | | | | | 10 | 10 | 9 | 9 | 9 | 8 | 7 | 6 | 4 | | | | | | | | | | | 422 | |
| | 20 | | | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 6 | 4 | | | | | | | | | | | | | |
| | 30 | | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 3 | | | | | | | | | | | | | |
| | 40 | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 4 | | | | | | | | | | | | | | |
| | 50 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 4 | 3 | | | | | | | | | | | | | | |
| | 60 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 3 | | | | | | | | | | | | | | | |
| | 80 | 8 | 8 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 174 | 165 | 156 | 148 | 139 | 130 | 122 | 113 | 104 | 96 | 78 | 70 | 52 | 26 | | | | | | | | | | | | |
| 1 | 0 | | | | | | | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | 3 | | | | | | | 544 ft | |
| | 20 | | | | | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | | | | | | | | | | |
| | 30 | | | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | | | | | | | | | | | |
| | 40 | | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 4 | 3 | | | | | | | | | | | |
| | 50 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 6 | 5 | 3 | | | | | | | | | | | | |
| | 60 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 6 | 6 | 5 | 3 | | | | | | | | | | | | |
| | 80 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 5 | 3 | | | | | | | | | | | | | |
| Shut-off PSI | | 226 | 218 | 209 | 200 | 192 | 183 | 174 | 166 | 157 | 148 | 131 | 123 | 105 | 79 | 62 | 45 | 27 | 18 | | | | | | | | |
| 1.5 | 0 | | | | | | | | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 5 | 2 | | | | | 765 | |
| | 20 | | | | | | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 4 | | | | | | | |
| | 30 | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 3 | | | | | | | |
| | 40 | | | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 3 | | | | | | | | |
| | 50 | | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 6 | 6 | 5 | 5 | | | | | | | | |
| | 60 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 4 | | | | | | | | |
| | 80 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 6 | 5 | 5 | 4 | 3 | | | | | | | | | |
| Shut-off PSI | | 322 | 313 | 305 | 296 | 287 | 279 | 270 | 261 | 253 | 244 | 227 | 218 | 201 | 175 | 158 | 140 | 123 | 114 | 71 | 28 | | | | | | |
| 2 | 0 | | | | | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 6 | 5 | 3 | | | 995 | |
| | 20 | | | | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 4 | | | | | |
| | 30 | | | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 4 | | | | |
| | 40 | | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 3 | | | | | |
| | 50 | | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 5 | 3 | | | | |
| | 60 | | | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | | | | | |
| | 80 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 3 | | | | | | |
| Shut-off PSI | | 421 | 412 | 404 | 395 | 386 | 378 | 369 | 360 | 352 | 343 | 326 | 317 | 300 | 274 | 257 | 239 | 222 | 213 | 170 | 127 | 84 | 40 | | | | |

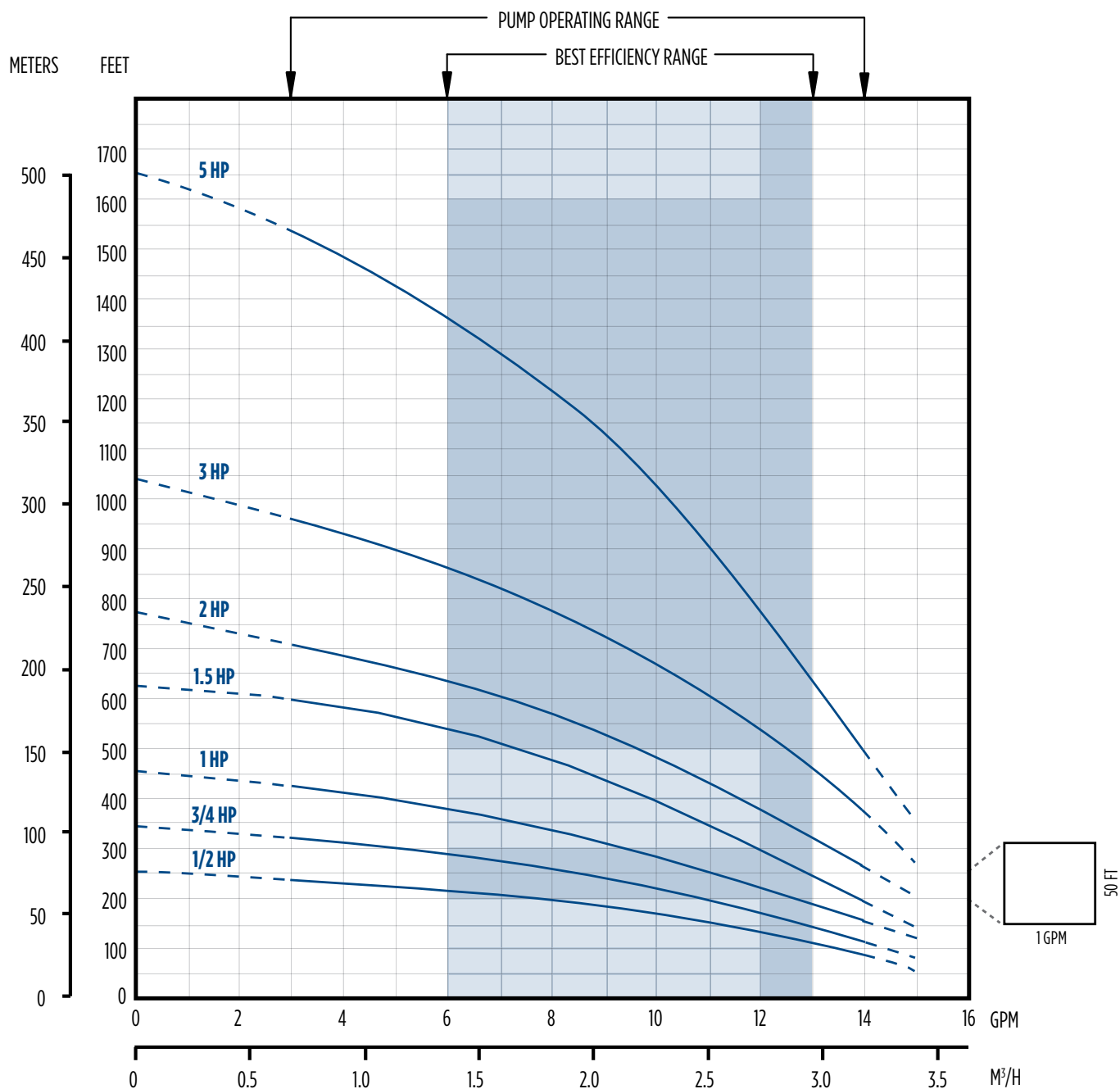
NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

| HP | PSI | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---------------|
| 3 | 0 | | | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 2 | | | 1310 |
| | 20 | | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 6 | 5 | 3 | | | | |
| | 30 | | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 6 | 4 | 3 | | | | |
| | 40 | | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | | | | | |
| | 50 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 4 | | | | | |
| | 60 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 3 | | | | | |
| | 80 | 10 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 4 | 2 | | | | | |
| Shut-off PSI | | 523 | 480 | 437 | 394 | 350 | 307 | 264 | 221 | 177 | 134 | 91 | 48 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

4" SERIES V PUMPS - 10 GPM

PERFORMANCE



4" SERIES V PUMPS - 10 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | |
| 1/2 | 0 | | | | 14 | 13 | 12 | 11 | 10 | 9 | 7 | | | | | | | | | | | | | | 244 |
| | 20 | 14 | 13 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | |
| | 30 | 13 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | |
| | 40 | 13 | 12 | 11 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | | |
| | 50 | 12 | 11 | 9 | 8 | 5 | 3 | | | | | | | | | | | | | | | | | | |
| | 60 | 11 | 10 | 7 | 4 | | | | | | | | | | | | | | | | | | | | |
| 80 | | 8 | 6 | 4 | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 97 | 88 | 80 | 71 | 62 | 54 | 45 | 36 | 28 | 19 | | | | | | | | | | | | | | |
| 3/4 | 0 | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 7 | 8 | 4 | | | | | | | | | | | 338 |
| | 20 | | 14 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 6 | 4 | | | | | | | | | | | | |
| | 30 | 14 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 3 | | | | | | | | | | | | | |
| | 40 | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | | | | | |
| | 50 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | | | | | | | | |
| | 60 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | | | | | | | | | | | | | | | | |
| 80 | | 11 | 10 | 9 | 8 | 6 | 5 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 137 | 129 | 120 | 111 | 103 | 94 | 85 | 77 | 68 | 59 | 42 | 34 | 16 | | | | | | | | | | | |
| 1 | 0 | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 7 | 4 | | | | | | | | | 444 |
| | 20 | | | | | 14 | 13 | 13 | 12 | 11 | 11 | 9 | 9 | 7 | 3 | | | | | | | | | | |
| | 30 | | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | | | | | | | | | | | |
| | 40 | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | | | | | | | | | | | |
| | 50 | | 14 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | | | |
| | 60 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 8 | 5 | 4 | | | | | | | | | | | | |
| 80 | | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | | | | | | | | | | | | | | |
| Shut-off PSI | | 183 | 174 | 157 | 148 | 140 | 131 | 123 | 114 | 105 | 97 | 79 | 71 | 53 | 27 | 10 | | | | | | | | | |
| 1.5 | 0 | | | | | | | | 14 | 13 | 13 | 12 | 12 | 10 | 9 | 9 | 8 | 7 | | | | | | | 615 |
| | 20 | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 9 | 8 | 7 | 6 | 5 | | | | | | |
| | 30 | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 8 | 8 | 6 | 5 | 4 | | | | | | |
| | 40 | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 10 | 8 | 7 | 6 | 4 | | | | | | | | |
| | 50 | | | | 14 | 13 | 13 | 12 | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 6 | 5 | 3 | | | | | | | |
| | 60 | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 9 | 7 | 6 | 4 | | | | | | | | |
| 80 | | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 6 | 3 | | | | | | | | | | |
| Shut-off PSI | | 257 | 248 | 240 | 231 | 222 | 214 | 205 | 197 | 188 | 179 | 162 | 153 | 136 | 110 | 93 | 75 | 41 | 32 | | | | | | |
| 2 | 0 | | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 6 | | | | | 770 |
| | 20 | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 8 | 5 | | | | | |
| | 30 | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 10 | 10 | 9 | 8 | 8 | 4 | | | | | |
| | 40 | | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 3 | | | | | |
| | 50 | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | |
| | 60 | | | | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | | | | | | |
| 80 | | | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 6 | 4 | 4 | | | | | | | |
| Shut-off PSI | | 324 | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125 | 117 | 73 | | | | | |
| 3 | 0 | | | | | | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 9 | 7 | 5 | | 1034 |
| | 20 | | | | | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 12 | 10 | 8 | 6 | 3 | | |
| | 30 | | | | | | | | | | | | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 8 | 5 | | | |
| | 40 | | | | | | | | | | | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 9 | 7 | 4 | | | |
| | 50 | | | | | | | | | | 14 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 7 | 4 | | | |
| | 60 | | | | | | | | | 14 | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 6 | 3 | | | |
| 80 | | | | | | | | | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 8 | 5 | | | | | |
| Shut-off PSI | | 438 | 430 | 421 | 413 | 404 | 395 | 387 | 378 | 369 | 361 | 343 | 335 | 317 | 291 | 274 | 257 | 240 | 231 | 188 | 144 | 101 | 58 | | |

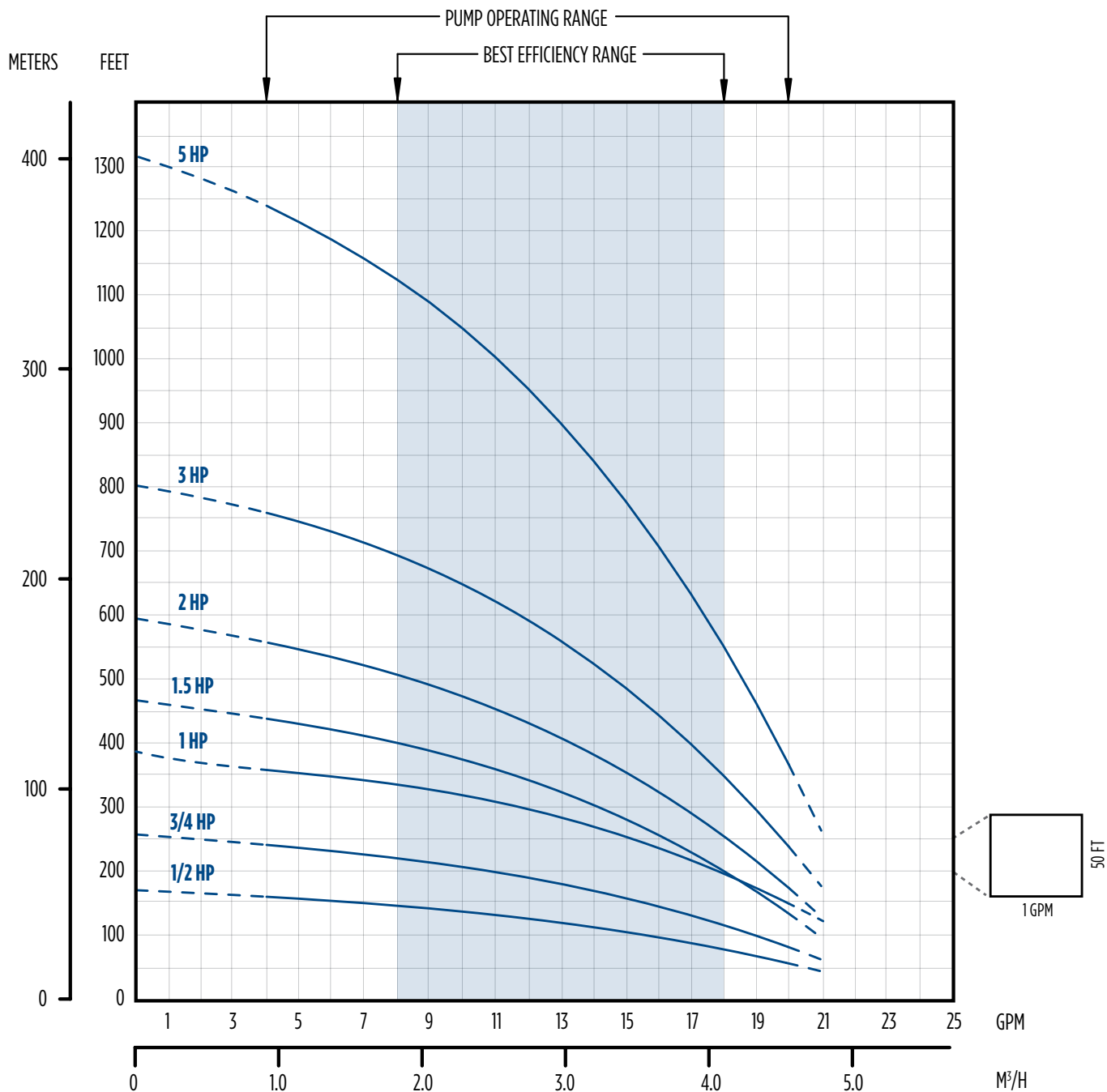
NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

| HP | PSI | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---------------|
| 5 | 0 | | | | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 5 | 1310 |
| | 20 | | | | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | |
| | 30 | | | | 14 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 4 | |
| | 40 | | | | 14 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | |
| | 50 | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 7 | 6 | 5 | 3 | |
| | 60 | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | | |
| Shut-off PSI | | 670 | 626 | 583 | 540 | 497 | 453 | 410 | 367 | 324 | 280 | 237 | 194 | 151 | 107 | |

NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

4" SERIES V PUMPS - 15 GPM

PERFORMANCE



4" SERIES V PUMPS - 15 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| 1/2 | 0 | | | 20 | 18 | 16 | 13 | 9 | 4 | | | | | | | | | | | | | | | | | 170 |
| | 20 | 19 | 17 | 15 | 12 | 8 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 17 | 14 | 11 | 7 | | | | | | | | | | | | | | | | | | | | | |
| | 40 | 14 | 11 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 65 | 56 | 48 | 39 | 30 | 22 | 13 | 4 | | | | | | | | | | | | | | | | | |
| 3/4 | 0 | | | | 20 | 19 | 18 | 16 | 15 | 13 | 11 | | | | | | | | | | | | | | | 257 |
| | 20 | | 20 | 19 | 17 | 16 | 14 | 12 | 10 | 7 | | | | | | | | | | | | | | | | |
| | 30 | 20 | 18 | 17 | 16 | 14 | 12 | 10 | 6 | | | | | | | | | | | | | | | | | |
| | 40 | 18 | 17 | 15 | 14 | 12 | 9 | 6 | | | | | | | | | | | | | | | | | | |
| | 50 | 17 | 15 | 13 | 11 | 9 | 5 | | | | | | | | | | | | | | | | | | | |
| | 60 | 15 | 13 | 11 | 8 | 4 | | | | | | | | | | | | | | | | | | | | |
| | 80 | 10 | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 103 | 94 | 85 | 77 | 68 | 59 | 51 | 42 | 33 | 25 | | | | | | | | | | | | | | | |

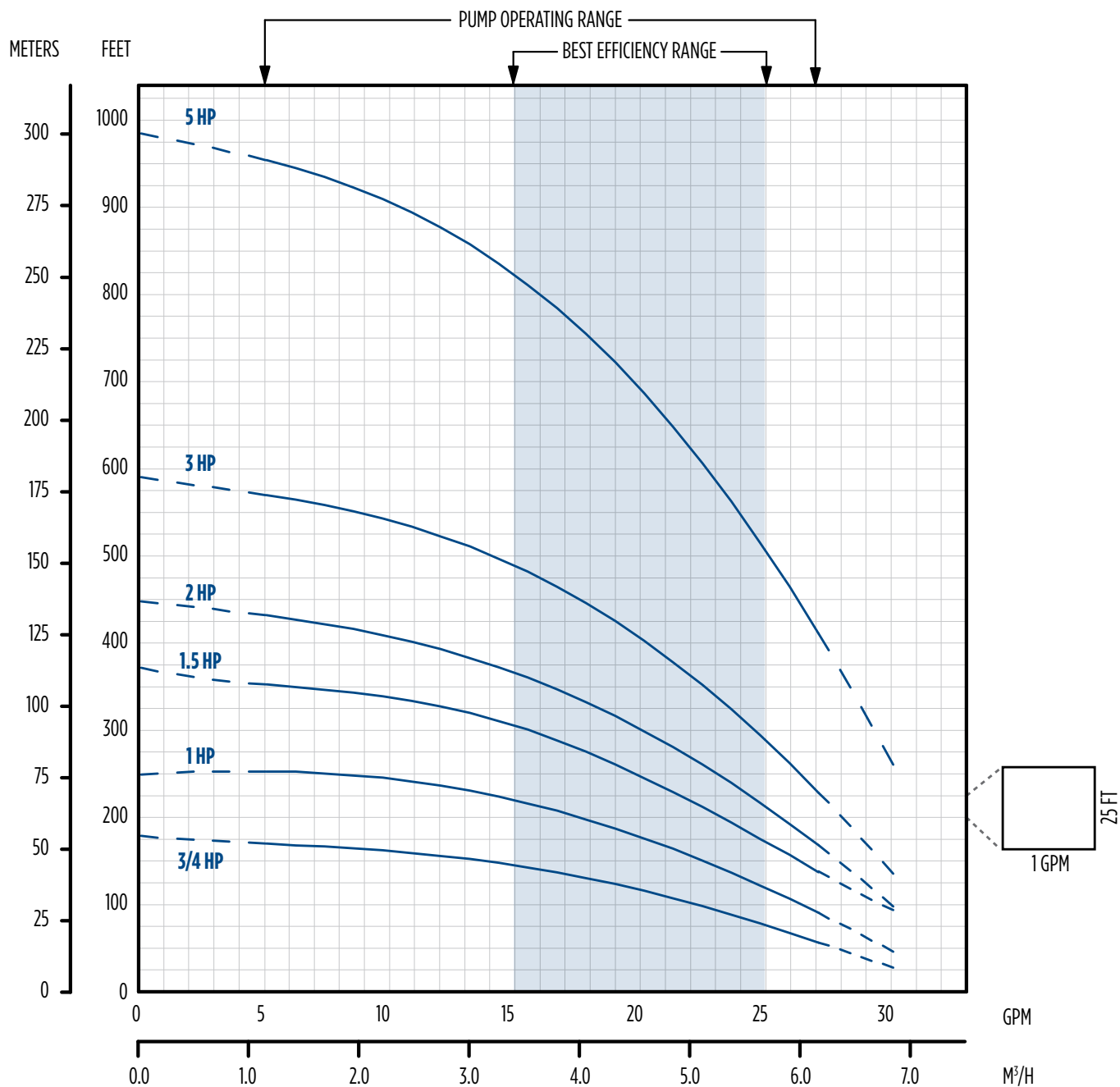
| HP | PSI | Depth to Pumping Water Level, or Lift, in Feet Shaded Areas Indicate Most Efficient Performance | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | | |
| 1 | 0 | | | | | | | | 19 | 19 | 18 | 16 | 12 | 6 | | | | | | | | | | | | 392 |
| | 10 | | | | | | | 19 | 19 | 18 | 17 | 14 | 9 | 2 | | | | | | | | | | | | |
| | 20 | | | | | 20 | 19 | 18 | 18 | 17 | 16 | 12 | 6 | | | | | | | | | | | | | |
| | 30 | | | | 20 | 19 | 18 | 18 | 17 | 16 | 14 | 10 | 3 | | | | | | | | | | | | | |
| | 40 | | | 20 | 19 | 18 | 17 | 17 | 15 | 14 | 12 | 7 | | | | | | | | | | | | | | |
| | 50 | | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 12 | 10 | 3 | | | | | | | | | | | | | | |
| | 60 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 12 | 10 | 7 | | | | | | | | | | | | | | | |
| | 70 | 19 | 18 | 17 | 16 | 15 | 13 | 11 | 9 | 7 | 4 | | | | | | | | | | | | | | | |
| | 80 | 18 | 17 | 16 | 15 | 13 | 11 | 9 | 6 | 4 | 1 | | | | | | | | | | | | | | | |
| | 90 | 17 | 16 | 14 | 13 | 11 | 9 | 6 | 3 | | | | | | | | | | | | | | | | | |
| | 100 | 15 | 14 | 13 | 11 | 8 | 6 | 3 | | | | | | | | | | | | | | | | | | |
| | 110 | 14 | 12 | 10 | 8 | 5 | 2 | | | | | | | | | | | | | | | | | | | |
| | 120 | 12 | 10 | 7 | 5 | 2 | | | | | | | | | | | | | | | | | | | | |
| | 130 | 9 | 7 | 4 | 1 | | | | | | | | | | | | | | | | | | | | | |
| | 140 | 7 | 4 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off psi | | | 153 | 144 | 135 | 127 | 118 | 109 | 101 | 92 | 83 | 62 | 40 | 18 | | | | | | | | | | | | |

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|--|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | | | | |
| 1.5 | 0 | | | | | | 20 | 20 | 19 | 19 | 18 | 17 | 16 | 14 | 11 | 8 | 4 | | | | | | | | | | | 467 | | |
| | 20 | | | | 20 | 20 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 12 | 7 | | | | | | | | | | | | | | | |
| | 30 | | | 20 | 20 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 13 | 10 | 5 | | | | | | | | | | | | | | | |
| | 40 | | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 15 | 15 | 13 | 11 | 9 | | | | | | | | | | | | | | | | |
| | 50 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 11 | 10 | 7 | | | | | | | | | | | | | | | | |
| | 60 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 12 | 10 | 8 | 4 | | | | | | | | | | | | | | | | |
| | 80 | 18 | 17 | 16 | 16 | 15 | 14 | 13 | 12 | 11 | 9 | 6 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 193 | 185 | 176 | 167 | 159 | 150 | 141 | 133 | 124 | 115 | 98 | 89 | 72 | 46 | 29 | 11 | | | | | | | | | | | | | |
| 2 | 0 | | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 6 | | | | | | | 770 | | | |
| | 20 | | | | | | | | | | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 8 | 5 | | | | | | | | | | |
| | 30 | | | | | | | | | 14 | 13 | 13 | 12 | 12 | 10 | 10 | 9 | 8 | 8 | 4 | | | | | | | | | | |
| | 40 | | | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 3 | | | | | | | | | | |
| | 50 | | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | | | |
| | 60 | | | | | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | | | | | | | | | | | | |
| | 80 | | | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 6 | 4 | 4 | | | | | | | | | | | | |
| Shut-off PSI | | 324 | 316 | 307 | 298 | 290 | 281 | 272 | 264 | 255 | 246 | 229 | 220 | 203 | 177 | 160 | 143 | 125 | 117 | 73 | | | | | | | | | | |
| 3 | 0 | | | | | | | | | | | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 15 | 12 | 8 | | | | | | 170 | | | |
| | 20 | | | | | | | | | 20 | 20 | 19 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 10 | 5 | | | | | | | | | |
| | 30 | | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 16 | 15 | 14 | 13 | 13 | 9 | | | | | | | | | | |
| | 40 | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 8 | | | | | | | | | | |
| | 50 | | | | | 20 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 15 | 14 | 13 | 12 | 11 | 7 | | | | | | | | | | |
| | 60 | | | | 20 | 20 | 20 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 12 | 11 | 10 | 5 | | | | | | | | | | |
| | 80 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 17 | 16 | 16 | 15 | 13 | 12 | 11 | 9 | 8 | | | | | | | | | | | |
| Shut-off PSI | | 339 | 330 | 321 | 313 | 304 | 295 | 287 | 278 | 269 | 261 | 243 | 235 | 217 | 191 | 174 | 157 | 139 | 131 | 87 | 44 | | | | | | | | | |
| 5 | 0 | | | | | | | | | | | | | | 20 | 20 | 19 | 19 | 19 | 17 | 16 | 15 | 13 | 11 | 9 | 6 | 257 | | | |
| | 20 | | | | | | | | | | | | | | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 15 | 14 | 12 | 10 | 7 | | | | |
| | 30 | | | | | | | | | | | | | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 17 | 15 | 14 | 12 | 9 | 7 | | | | |
| | 40 | | | | | | | | | | | | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 16 | 15 | 13 | 11 | 9 | 6 | | | | |
| | 50 | | | | | | | | | | | 20 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 14 | 13 | 11 | 8 | | 5 | | |
| | 60 | | | | | | | | | | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 14 | 12 | 10 | 8 | | 4 | | |
| | 80 | | | | | | | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 15 | 13 | 11 | 9 | 6 | | | | | |
| Shut-off PSI | | 561 | 553 | 544 | 535 | 527 | 518 | 509 | 501 | 492 | 483 | 466 | 457 | 440 | 414 | 397 | 379 | 362 | 353 | 310 | 267 | 224 | 180 | 137 | 94 | 50 | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

4" SERIES V PUMPS - 20 GPM

PERFORMANCE



4" SERIES V PUMPS - 20 GPM

PERFORMANCE

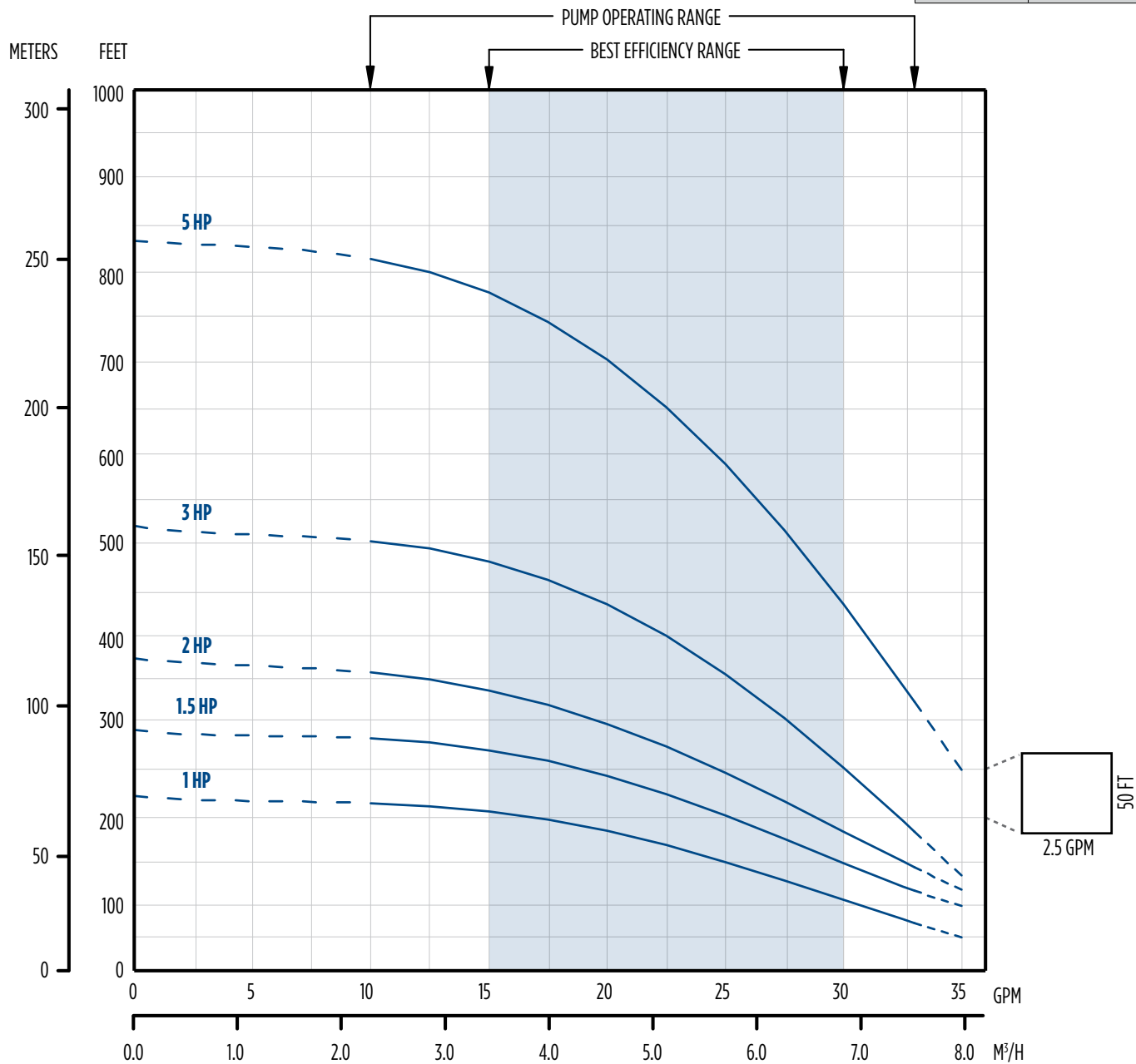
| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | | |
| 3/4 | 0 | | | | 24 | 22 | 21 | 18 | 14 | | | | | | | | | | | | | | | | 190 | |
| | 20 | | 23 | 21 | 19 | 17 | 12 | | | | | | | | | | | | | | | | | | | |
| | 30 | 23 | 21 | 19 | 17 | 11 | | | | | | | | | | | | | | | | | | | | |
| | 40 | 21 | 19 | 17 | 10 | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 19 | 16 | 10 | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 74 | 65 | 56 | 48 | 39 | 30 | 22 | 13 | | | | | | | | | | | | | | | | | |
| 1 | 0 | | | | | | 26 | 25 | 23 | 20 | 18 | 11 | | | | | | | | | | | | 251 | | |
| | 20 | | | 27 | 26 | 24 | 22 | 20 | 18 | 15 | 8 | | | | | | | | | | | | | | | |
| | 30 | | 27 | 26 | 24 | 22 | 19 | 17 | 14 | 7 | | | | | | | | | | | | | | | | |
| | 40 | 27 | 25 | 23 | 21 | 19 | 17 | 13 | | | | | | | | | | | | | | | | | | |
| | 50 | 25 | 23 | 21 | 19 | 16 | 12 | | | | | | | | | | | | | | | | | | | |
| | 60 | 23 | 21 | 18 | 16 | 11 | | | | | | | | | | | | | | | | | | | | |
| | 70 | 20 | 18 | 15 | 10 | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 100 | 91 | 83 | 74 | 66 | 57 | 48 | 40 | 31 | 22 | 5 | | | | | | | | | | | | | | |
| 1.5 | 0 | | | | | | | | 27 | 26 | 24 | 22 | 20 | 17 | 6 | | | | | | | | | 379 | | |
| | 20 | | | | | | 27 | 25 | 24 | 23 | 21 | 18 | 16 | 10 | | | | | | | | | | | | |
| | 30 | | | | | 26 | 25 | 24 | 22 | 21 | 20 | 16 | 13 | | | | | | | | | | | | | |
| | 40 | | | | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 13 | 8 | | | | | | | | | | | | | |
| | 50 | | 27 | 26 | 25 | 23 | 22 | 21 | 19 | 17 | 15 | 7 | | | | | | | | | | | | | | |
| | 60 | 27 | 26 | 24 | 23 | 22 | 20 | 19 | 17 | 15 | 11 | | | | | | | | | | | | | | | |
| | 70 | 26 | 24 | 23 | 21 | 20 | 19 | 17 | 14 | 11 | 5 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 156 | 147 | 138 | 130 | 121 | 112 | 104 | 95 | 86 | 78 | 60 | 52 | 34 | 8 | | | | | | | | | | | |
| 2 | 0 | | | | | | | | | | | 24 | 23 | 20 | 16 | 12 | | | | | | | | 453 | | |
| | 20 | | | | | | | | | | 24 | 21 | 20 | 17 | 12 | | | | | | | | | | | |
| | 30 | | | | | | | | 24 | 23 | 22 | 20 | 19 | 16 | | | | | | | | | | | | |
| | 40 | | | | | | | 24 | 23 | 22 | 21 | 19 | 17 | 14 | | | | | | | | | | | | |
| | 50 | | | | | | 24 | 23 | 22 | 20 | 19 | 16 | 14 | 10 | | | | | | | | | | | | |
| | 60 | | | | | 24 | 23 | 22 | 20 | 19 | 18 | 14 | 12 | | | | | | | | | | | | | |
| | 80 | | | 24 | 23 | 21 | 20 | 19 | 18 | 16 | 14 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 187 | 179 | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 110 | 92 | 84 | 66 | 40 | 23 | | | | | | | | | | |
| 3 | 0 | | | | | | | | | | | | 24 | 22 | 20 | 18 | 16 | 14 | | | | | | 601 | | |
| | 20 | | | | | | | | | | | | 24 | 23 | 20 | 17 | 15 | 12 | 10 | | | | | | | |
| | 30 | | | | | | | | | | | 24 | 23 | 21 | 18 | 16 | 13 | 10 | | | | | | | | |
| | 40 | | | | | | | | | | 24 | 23 | 22 | 20 | 17 | 14 | 11 | | | | | | | | | |
| | 50 | | | | | | | | | 24 | 24 | 22 | 21 | 19 | 16 | 13 | | | | | | | | | | |
| | 60 | | | | | | | | 24 | 24 | 23 | 21 | 20 | 18 | 14 | 10 | | | | | | | | | | |
| | 80 | | | | | | | 24 | 23 | 22 | 20 | 18 | 17 | 15 | 10 | | | | | | | | | | | |
| Shut-off PSI | | 251 | 242 | 234 | 225 | 216 | 208 | 199 | 190 | 182 | 173 | 156 | 147 | 130 | 104 | 87 | 69 | 52 | 43 | | | | | | | |
| 5 | 0 | | | | | | | | | | | | | | | | | 24 | 23 | 20 | 16 | | | 770 | | |
| | 20 | | | | | | | | | | | | | | | | | 24 | 21 | 18 | 13 | | | | | |
| | 30 | | | | | | | | | | | | | | | | | 24 | 20 | 17 | 11 | | | | | |
| | 40 | | | | | | | | | | | | | | | | 24 | 23 | 23 | 20 | 16 | 10 | | | | |
| | 50 | | | | | | | | | | | | | | | | 24 | 22 | 22 | 17 | 15 | | | | | |
| | 60 | | | | | | | | | | | | | | | | 24 | 23 | 22 | 21 | 18 | 14 | | | | |
| | 80 | | | | | | | | | | | | | | | 24 | 23 | 22 | 21 | 20 | 16 | 10 | | | | |
| Shut-off PSI | | 416 | 408 | 399 | 390 | 382 | 373 | 364 | 356 | 347 | 339 | 321 | 313 | 295 | 269 | 252 | 235 | 217 | 209 | 165 | 122 | 79 | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

4" SERIES V PUMPS - 25 GPM

PERFORMANCE

| Basic Model | PE _{CL} Number |
|-------------|-------------------------|
| 25S4 | 0.76 |



4" SERIES V PUMPS - 25 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|-----|--|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 260 | 300 | 360 | 400 | 440 | 480 | 500 | 600 | 700 | 800 | 900 | 1000 | Shut-Off (ft) | | |
| 1 | 0 | | | 35 | 33 | 31 | 28 | 26 | 24 | 21 | 17 | | | | | | | | | | | | | | | 222 | |
| | 20 | | 32 | 30 | 28 | 25 | 22 | 18 | 15 | | | | | | | | | | | | | | | | | | |
| | 30 | 32 | 29 | 27 | 25 | 22 | 19 | | | | | | | | | | | | | | | | | | | | |
| | 40 | 29 | 27 | 25 | 22 | 19 | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 26 | 24 | 21 | 16 | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | 24 | 21 | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 87 | 79 | 70 | 61 | 53 | 44 | 35 | 27 | 18 | 10 | | | | | | | | | | | | | | | | |
| 1.5 | 0 | | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | | 21 | 19 | | | | | | | | | | | | 297 | |
| | 20 | | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | | | | | | | | | | | | | | | | |
| | 30 | | | 32 | 30 | 28 | 26 | 24 | 22 | 19 | 16 | | | | | | | | | | | | | | | | |
| | 40 | 33 | 32 | 29 | 27 | 25 | 23 | 21 | 19 | 15 | | | | | | | | | | | | | | | | | |
| | 50 | 32 | 29 | 27 | 25 | 23 | 21 | 18 | | | | | | | | | | | | | | | | | | | |
| | 60 | 29 | 27 | 25 | 23 | 20 | 18 | | | | | | | | | | | | | | | | | | | | |
| 80 | 24 | 22 | 20 | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 120 | 111 | 103 | 94 | 85 | 77 | 68 | 59 | 51 | 42 | 25 | 16 | | | | | | | | | | | | | | |
| 2 | 0 | | | | 34 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 20 | | | | | | | | | | | | | 375 | |
| | 20 | | | | 34 | 33 | 31 | 29 | 28 | 26 | 25 | 21 | 20 | | | | | | | | | | | | | | |
| | 30 | | | 34 | 33 | 31 | 29 | 28 | 26 | 24 | 23 | 19 | 17 | | | | | | | | | | | | | | |
| | 40 | | 34 | 33 | 31 | 29 | 28 | 26 | 24 | 23 | 21 | 17 | | | | | | | | | | | | | | | |
| | 50 | 33 | 32 | 30 | 29 | 27 | 26 | 24 | 22 | 20 | 18 | | | | | | | | | | | | | | | | |
| | 60 | 32 | 30 | 28 | 27 | 26 | 24 | 22 | 20 | 18 | | | | | | | | | | | | | | | | | |
| 80 | 28 | 26 | 25 | 23 | 21 | 20 | 17 | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 154 | 145 | 136 | 128 | 119 | 110 | 102 | 93 | 84 | 76 | 58 | 50 | 32 | | | | | | | | | | | | | |
| 3 | 0 | | | | | | | | | 33 | 32 | 30 | 29 | 28 | 24 | 22 | 19 | 15 | | | | | | | | 519 | |
| | 20 | | | | | | 33 | 32 | 31 | 30 | 28 | 27 | 25 | 22 | 19 | | | | | | | | | | | | |
| | 30 | | | | | 33 | 32 | 31 | 30 | 29 | 27 | 26 | 24 | 20 | | | | | | | | | | | | | |
| | 40 | | | | 33 | 32 | 31 | 30 | 29 | 28 | 26 | 25 | 22 | 18 | | | | | | | | | | | | | |
| | 50 | | | 33 | 32 | 31 | 31 | 30 | 29 | 28 | 27 | 24 | 23 | 21 | 15 | | | | | | | | | | | | |
| | 60 | | 33 | 32 | 31 | 31 | 30 | 29 | 28 | 26 | 25 | 23 | 22 | 19 | | | | | | | | | | | | | |
| 80 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 20 | 19 | 15 | | | | | | | | | | | | | | |
| Shut-off PSI | | 216 | 207 | 199 | 190 | 181 | 173 | 164 | 155 | 147 | 138 | 121 | 112 | 95 | 69 | 52 | 34 | 17 | | | | | | | | | |
| 5 | 0 | | | | | | | | | | | | 33 | 32 | 31 | 30 | 28 | 28 | 24 | 20 | | | | | | 833 | |
| | 20 | | | | | | | | | | | | 33 | 32 | 30 | 30 | 28 | 27 | 26 | 22 | 17 | | | | | | |
| | 30 | | | | | | | | | | 33 | 33 | 31 | 30 | 28 | 27 | 26 | 25 | 21 | 15 | | | | | | | |
| | 40 | | | | | | | | | 33 | 32 | 32 | 31 | 29 | 28 | 27 | 25 | 24 | 20 | | | | | | | | |
| | 50 | | | | | | | | 33 | 33 | 32 | 31 | 30 | 28 | 27 | 25 | 24 | 23 | 19 | | | | | | | | |
| | 60 | | | | | | | 33 | 33 | 32 | 31 | 31 | 30 | 28 | 26 | 25 | 23 | 22 | 18 | | | | | | | | |
| 80 | | | | | 33 | 33 | 32 | 31 | 31 | 30 | 29 | 28 | 26 | 25 | 23 | 21 | 20 | | | | | | | | | | |
| Shut-off PSI | | 352 | 343 | 326 | 317 | 309 | 300 | 291 | 283 | 274 | 257 | 248 | 231 | 205 | 187 | 170 | 153 | 144 | 101 | 58 | | | | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

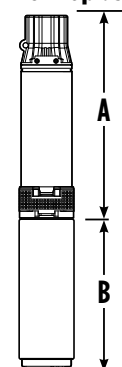
4" SERIES V PUMPS - DIMENSIONS

THERMOPLASTIC

| GPM | HP | Stages | 2-Wire | | | | | | 3-Wire | | | | | |
|-----|-----|--------|-----------------|-------|-------|-----------|-----|--|-----------------|-------|-------|-----------|-----|--|
| | | | Dimensions (in) | | | Wt. (lbs) | | | Dimensions (in) | | | Wt. (lbs) | | |
| | | | A | B | C | PE | PMA | | A | B | C | PE | PMA | |
| 5 | 1/2 | 8 | 14.12 | 9.51 | 23.63 | 8 | 26 | | 14.12 | 9.51 | 23.63 | 8 | 26 | |
| | 3/4 | 12 | 17.41 | 10.64 | 28.05 | 9 | 30 | | 17.41 | 10.64 | 28.05 | 9 | 30 | |
| | 1 | 15 | 19.87 | 11.73 | 31.60 | 10 | 34 | | 19.87 | 11.73 | 31.60 | 10 | 34 | |
| | 1.5 | 21 | 24.81 | 15.10 | 39.91 | 12 | 43 | | 24.81 | 13.60 | 38.41 | 12 | 40 | |
| 7 | 1/2 | 7 | 13.30 | 9.51 | 22.81 | 7 | 25 | | 13.30 | 9.51 | 22.81 | 7 | 26 | |
| | 3/4 | 10 | 15.76 | 10.64 | 26.40 | 8 | 29 | | 15.76 | 10.64 | 26.40 | 8 | 29 | |
| | 1 | 13 | 18.23 | 11.73 | 29.96 | 10 | 34 | | 18.23 | 11.73 | 29.96 | 10 | 34 | |
| | 1.5 | 18 | 22.34 | 15.10 | 37.44 | 11 | 42 | | 22.34 | 13.60 | 35.94 | 11 | 39 | |
| 10 | 1/2 | 6 | 12.97 | 9.51 | 22.48 | 7 | 25 | | 12.97 | 9.51 | 22.48 | 7 | 26 | |
| | 3/4 | 8 | 14.69 | 10.64 | 25.33 | 8 | 29 | | 14.69 | 10.64 | 25.33 | 8 | 29 | |
| | 1 | 11 | 17.44 | 11.73 | 29.17 | 9 | 33 | | 17.44 | 11.73 | 29.17 | 9 | 33 | |
| | 1.5 | 15 | 21.06 | 15.10 | 36.16 | 10 | 41 | | 21.06 | 13.60 | 34.66 | 10 | 38 | |
| 15 | 1/2 | 4 | 11.45 | 9.51 | 20.96 | 6 | 24 | | 11.45 | 9.51 | 20.96 | 6 | 25 | |
| | 3/4 | 6 | 12.97 | 10.64 | 23.61 | 7 | 28 | | 12.97 | 10.64 | 23.61 | 7 | 28 | |
| | 1 | 8 | 14.69 | 11.73 | 26.42 | 8 | 32 | | 14.69 | 11.73 | 26.42 | 8 | 32 | |
| | 1.5 | 11 | 17.44 | 15.10 | 32.54 | 9 | 40 | | 17.44 | 13.60 | 31.04 | 9 | 37 | |
| 20 | 3/4 | 5 | 13.65 | 10.64 | 24.29 | 6 | 28 | | 13.65 | 10.64 | 24.29 | 6 | 28 | |
| | 1 | 7 | 16.10 | 11.73 | 26.42 | 8 | 32 | | 16.10 | 11.73 | 27.83 | 7 | 31 | |
| | 1.5 | 10 | 19.77 | 15.10 | 34.87 | 8 | 39 | | 19.77 | 13.60 | 33.37 | 8 | 36 | |
| 25 | 1 | 6 | 14.88 | 11.73 | 26.61 | 7 | 31 | | 14.88 | 11.73 | 26.61 | 7 | 31 | |
| | 1.5 | 8 | 17.32 | 15.10 | 32.42 | 8 | 39 | | 17.32 | 15.10 | 30.92 | 8 | 36 | |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Thermoplastic

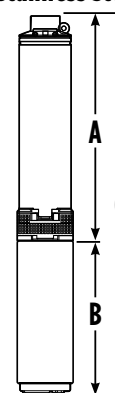


STAINLESS STEEL

| GPM | HP | Stages | 2-Wire | | | | | | 3-Wire | | | | | |
|-----|-----|--------|-----------------|-------|-------|-----------|-----|--|-----------------|-------|--------|-----------|-----|--|
| | | | Dimensions (in) | | | Wt. (lbs) | | | Dimensions (in) | | | Wt. (lbs) | | |
| | | | A | B | C | PE | PMA | | A | B | C | PE | PMA | |
| 5 | 1/2 | 8 | 13.57 | 9.51 | 23.08 | 10 | 28 | | 13.57 | 9.51 | 23.08 | 10 | 29 | |
| | 3/4 | 12 | 16.86 | 10.64 | 27.50 | 12 | 33 | | 16.86 | 10.64 | 27.50 | 12 | 33 | |
| | 1 | 15 | 19.33 | 11.73 | 31.06 | 14 | 38 | | 19.33 | 11.73 | 31.06 | 14 | 38 | |
| | 1.5 | 21 | 24.26 | 15.10 | 39.36 | 17 | 48 | | 24.26 | 13.60 | 37.86 | 17 | 45 | |
| | 2 | 26 | - | - | - | - | - | | 30.46 | 15.10 | 45.56 | 20 | - | |
| 7 | 1/2 | 7 | 12.75 | 9.51 | 22.26 | 9 | 27 | | 12.75 | 9.51 | 22.26 | 9 | 28 | |
| | 3/4 | 10 | 15.22 | 10.64 | 25.86 | 11 | 32 | | 15.22 | 10.64 | 25.86 | 11 | 32 | |
| | 1 | 13 | 17.68 | 11.73 | 29.41 | 13 | 37 | | 17.68 | 11.73 | 29.41 | 13 | 37 | |
| | 1.5 | 18 | 21.80 | 15.10 | 36.90 | 15 | 46 | | 21.80 | 13.60 | 35.40 | 15 | 43 | |
| | 2 | 24 | - | - | - | - | - | | 26.73 | 15.10 | 41.83 | 19 | - | |
| 10 | 3/4 | 32 | - | - | - | - | - | | 35.39 | 19.04 | 54.43 | 23 | - | |
| | 1/2 | 6 | 12.39 | 9.51 | 21.90 | 7 | 25 | | 12.39 | 9.51 | 21.90 | 7 | 26 | |
| | 3/4 | 8 | 14.14 | 10.64 | 24.78 | 10 | 31 | | 14.14 | 10.64 | 24.78 | 10 | 31 | |
| | 1 | 11 | 16.85 | 11.73 | 28.58 | 11 | 35 | | 16.85 | 11.73 | 28.58 | 11 | 35 | |
| | 1.5 | 15 | 20.48 | 15.10 | 35.58 | 14 | 45 | | 20.48 | 13.60 | 34.08 | 14 | 42 | |
| 15 | 2 | 18 | - | - | - | - | - | | 25.26 | 15.10 | 40.36 | 15 | - | |
| | 3 | 19 | - | - | - | - | - | | 26.17 | 19.04 | 45.21 | 16 | - | |
| | 5 | 31 | - | - | - | - | - | | 37.00 | 29.19 | 66.19 | 23 | - | |
| | 1/2 | 4 | 10.64 | 9.51 | 20.15 | 7 | 25 | | 10.64 | 9.51 | 20.15 | 7 | 26 | |
| | 3/4 | 6 | 12.39 | 10.64 | 23.03 | 9 | 30 | | 12.39 | 10.64 | 23.03 | 9 | 30 | |
| 20 | 1 | 8 | 14.14 | 11.73 | 25.87 | 10 | 34 | | 14.14 | 11.73 | 25.87 | 10 | 34 | |
| | 1.5 | 11 | 16.85 | 15.10 | 31.95 | 11 | 42 | | 16.85 | 13.60 | 30.45 | 11 | 39 | |
| | 2 | 14 | - | - | - | - | - | | 19.57 | 15.10 | 34.67 | 13 | - | |
| | 3 | 19 | - | - | - | - | - | | 26.17 | 19.04 | 45.21 | 16 | - | |
| | 5 | 31 | - | - | - | - | - | | 37.00 | 29.19 | 66.19 | 23 | - | |
| 25 | 3/4 | 5 | 13.10 | 10.64 | 23.74 | 8 | 29 | | 13.10 | 10.64 | 23.74 | 8 | 29 | |
| | 1 | 7 | 15.55 | 11.73 | 27.28 | 9 | 33 | | 15.55 | 11.73 | 27.28 | 9 | 33 | |
| | 1.5 | 10 | 19.22 | 15.10 | 34.32 | 11 | 42 | | 19.22 | 13.60 | 32.82 | 11 | 39 | |
| | 2 | 12 | - | - | - | - | - | | 21.66 | 15.10 | 36.76 | 12 | - | |
| | 3 | 16 | - | - | - | - | - | | 26.55 | 19.04 | 45.59 | 14 | - | |
| 25 | 5 | 26 | - | - | - | - | - | | 40.86 | 29.19 | 70.05 | 20 | - | |
| | 7.5 | 39 | - | - | - | - | - | | 60.77 | 29.60 | 90.37 | 27 | - | |
| | 10 | 52 | - | - | - | - | - | | 76.66 | 32.60 | 109.26 | 35 | - | |
| | 1 | 6 | 14.33 | 11.73 | 26.06 | 9 | 33 | | 14.33 | 11.73 | 26.06 | 9 | 33 | |
| | 1.5 | 8 | 16.77 | 15.10 | 31.87 | 10 | 41 | | 16.77 | 13.60 | 30.37 | 10 | 38 | |
| 25 | 2 | 10 | - | - | - | - | - | | 19.22 | 15.10 | 34.32 | 11 | - | |
| | 3 | 14 | - | - | - | - | - | | 24.11 | 19.04 | 43.15 | 13 | - | |
| | 5 | 23 | - | - | - | - | - | | 37.19 | 28.19 | 66.38 | 18 | - | |
| | 7.5 | 35 | - | - | - | - | - | | 55.88 | 29.60 | 85.48 | 25 | - | |
| | 10 | 44 | - | - | - | - | - | | 66.88 | 32.60 | 99.48 | 30 | - | |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Stainless Steel



4" TRI-SEAL HIGH CAPACITY PUMPS

FEATURES

- Four performance ranges: 35, 45, 60, and 90 gpm
- 2" NPT discharge, with and without an internal stainless steel wafer-style check valve
- Stainless steel discharge head and motor bracket
- High flow hydraulic staging allows for maximum pump output, exceeds all energy efficiency standards, and provides increased product longevity
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
- Intermediate bearing for increased shaft stability when pump lengths dictate on high horse, high performance constructions
- Impeller eye and hub seals for improved performance and efficiency
- Stainless steel hex pump shaft, shell, and shaft coupling
- High capacity upthrust assembly for protection during start-up and operation (35, 45, 60, and 90 gpm models)
- Designed for optimal performance when powered by Franklin's corrosion-resistant 4" submersible motors

MODEL NO. EXPLANATION

Example: 60FH10S4-PE

- 60 = gpm
- FH = Franklin Electric Brand
- 10 = 10 hp
- S = Stainless
- 4 = 4" Submersible
- PE = Pump End



CSA CERTIFIED
PUMP END ONLY

 151236
 C US
 NSF/ANSI 61
 Drinking Water

4" TRI-SEAL HIGH CAPACITY PUMPS - ORDERING INFORMATION

PUMP ENDS ORDERING INFORMATION

| 1 - 10 HP 4" High Capacity Pump Ends | | | | | | | | | | | |
|--------------------------------------|-----|---------------|---------------|-----------|---------------------------------|-------------|--------------------------|-------------------------------|-----------|------|----|
| GPM | HP | Stages | Model | Order No. | Check Valve in 2" NPT Discharge | Basic Model | PEI _{CL} Number | Dimensions (in) Pump End Only | Wt. (lbs) | | |
| 35 | 1 | 5 | 35FHIS4-PE | 93653505 | No | 35S4 | 0.83 | 11.9 | 8 | | |
| | 1.5 | 7 | 35FHIS4-PE | 93653507 | | | | 14.5 | 9 | | |
| | 2 | 9 | 35FH2S4-PE | 93653509 | | | | 17 | 10 | | |
| | 3 | 12 | 35FH3S4-PE | 93653512 | | | | 20.9 | 11 | | |
| | 5 | 20 | 35FH5S4-PE | 93653520 | | | | 33.3 | 16 | | |
| | 7.5 | 29 | 35FH7S4-PE | 93653529 | | | | 44.5 | 23 | | |
| | 10 | 38 | 35FH10S4-PE | 93653538 | | | | 58.5 | 29 | | |
| | 1 | 5 | 35FHIS4-PECV | 93663505 | | | | 14.1 | 9 | | |
| | 1.5 | 7 | 35FHIS4-PECV | 93663507 | | | | 16.7 | 10 | | |
| | 2 | 9 | 35FH2S4-PECV | 93663509 | | | | 19.2 | 11 | | |
| | 3 | 12 | 35FH3S4-PECV | 93663512 | 23 | | | 12 | | | |
| | 5 | 20 | 35FH5S4-PECV | 93663520 | 35.5 | | | 17 | | | |
| | 7.5 | 29 | 35FH7S4-PECV | 93663529 | 47 | | | 24 | | | |
| | 10 | 38 | 35FH10S4-PECV | 93663538 | 60.7 | | | 30 | | | |
| 45 | 1.5 | 5 | 45FHIS4-PE | 93654505 | No | 45S4 | 0.89 | 14.2 | 8 | | |
| | 2 | 7 | 45FH2S4-PE | 93654507 | | | | 17.6 | 9 | | |
| | 3 | 10 | 45FH3S4-PE | 93654510 | | | | 22.8 | 10 | | |
| | 5 | 16 | 45FH5S4-PE | 93654516 | | | | 35.3 | 14 | | |
| | 7.5 | 23 | 45FH7S4-PE | 93654523 | | | | 47.4 | 22 | | |
| | 10 | 31 | 45FH10S4-PE | 93654531 | | | | 63.3 | 28 | | |
| | 1.5 | 5 | 45FHIS4-PECV | 93664505 | | | | 16.3 | 9 | | |
| | 2 | 7 | 45FH2S4-PECV | 93664507 | | | | 19.8 | 10 | | |
| | 3 | 10 | 45FH3S4-PECV | 93664510 | | | | 25 | 11 | | |
| | 5 | 16 | 45FH5S4-PECV | 93664516 | | | | 37.4 | 15 | | |
| | 7.5 | 23 | 45FH7S4-PECV | 93664523 | 49.5 | | | 23 | | | |
| | 10 | 31 | 45FH10S4-PECV | 93664531 | 65.5 | | | 29 | | | |
| | 2 | 7 | 60FH2S4-PE | 93656007 | No | | | 60S4 | 0.94 | 23.5 | 10 |
| | 3 | 10 | 60FH3S4-PE | 93656010 | | | | | | 33.3 | 12 |
| 5 | 16 | 60FH5S4-PE | 93656016 | 48.8 | | 18 | | | | | |
| 7.5 | 23 | 60FH7S4-PE | 93656023 | 68.8 | | 25 | | | | | |
| 10 | 30 | 60FH10S4-PE | 93656030 | 86.9 | | 31 | | | | | |
| 2 | 7 | 60FH2S4-PECV | 93666007 | 25.7 | | 11 | | | | | |
| 3 | 10 | 60FH3S4-PECV | 93666010 | 35.4 | | 13 | | | | | |
| 5 | 16 | 60FH5S4-PECV | 93666016 | 50.9 | | 19 | | | | | |
| 7.5 | 23 | 60FH7S4-PECV | 93666023 | 71 | | 26 | | | | | |
| 10 | 30 | 60FH10S4-PECV | 93666030 | 89 | | 32 | | | | | |
| 90 | 2 | 6 | 90FH2S4-PE | 93659006 | No | 90S4 | 0.92 | | | 23.4 | 10 |
| | 3 | 8 | 90FH3S4-PE | 93659008 | | | | | | 31.4 | 12 |
| | 5 | 13 | 90FH5S4-PE | 93659013 | | | | | | 46.3 | 17 |
| | 7.5 | 19 | 90FH7S4-PE | 93659019 | | | | | | 66.2 | 23 |
| | 10 | 25 | 90FH10S4-PE | 93659025 | | | | 84.2 | 29 | | |
| | 2 | 6 | 90FH2S4-PECV | 93669006 | | | | 25.6 | 11 | | |
| | 3 | 8 | 90FH3S4-PECV | 93669008 | | | | 33.6 | 13 | | |
| | 5 | 13 | 90FH5S4-PECV | 93669013 | | | | 48.5 | 18 | | |
| | 7.5 | 19 | 90FH7S4-PECV | 93669019 | | | | 68.4 | 24 | | |
| | 10 | 25 | 90FH10S4-PECV | 93669025 | | | | 86.3 | 30 | | |

NOTES: Maximum diameter across cable guard is 3.90" on all models.

PUMP & MOTOR ORDERING INFORMATION

| 1 - 1.5 HP Single-Phase Units (2-Wire PMA) | | | | | | | | | |
|--|-----|--------|-------|------------------|-----------|---------------------------------|-------------|--------------------------|-----------|
| GPM | HP | Stages | Volts | Model | Order No. | Check Valve in 2" NPT Discharge | Basic Model | PEI _{CL} Number | Wt. (lbs) |
| 35 | 1 | 5 | 230 | 35FHIS4-2W230 | 93673505 | No | 35S4 | 0.83 | 32 |
| | 1.5 | 7 | | 35FHIS4-2W230 | 93673507 | | | | 40 |
| | 1 | 5 | | 35FHIS4-2W230-CV | 93693505 | Yes | | | 33 |
| | 1.5 | 7 | | 35FHIS4-2W230-CV | 93693507 | | | | 41 |
| 45 | 1.5 | 5 | | 45FHIS4-2W230 | 93674505 | No | 45S4 | 0.89 | 40 |
| | 1.5 | 5 | | 45FHIS4-2W230-CV | 93694505 | Yes | | | 41 |

| 1 - 1.5 HP Single-Phase Units (3-Wire PMA) | | | | | | | | | |
|--|-----|--------|-------|------------------|-----------|---------------------------------|-------------|--------------------------|-----------|
| GPM | HP | Stages | Volts | Model | Order No. | Check Valve in 2" NPT Discharge | Basic Model | PEI _{CL} Number | Wt. (lbs) |
| 35 | 1 | 5 | 230 | 35FHIS4-3W230 | 93703505 | No | 35S4 | 0.83 | 32 |
| | 1.5 | 7 | | 35FHIS4-3W230 | 93703507 | | | | 40 |
| | 1 | 5 | | 35FHIS4-3W230-CV | 93713505 | Yes | | | 33 |
| | 1.5 | 7 | | 35FHIS4-3W230-CV | 93713507 | | | | 41 |
| 45 | 1.5 | 5 | | 45FHIS4-3W230 | 93704505 | No | 45S4 | 0.89 | 40 |
| | 1.5 | 5 | | 45FHIS4-3W230-CV | 93714505 | Yes | | | 41 |

4" TRI-SEAL HIGH CAPACITY PUMPS - MODEL CROSS REFERENCE

DOE COMPLIANT VS ORIGINAL SCHAEFER PUMP ENDS

| 1 - 10 HP 4" High Capacity Pump Ends | | | | | |
|--------------------------------------|---------------------------------|---|-----------|--|-----------|
| GPM | Check Valve in 2" NPT Discharge | Tri-Seal High Capacity, DOE PEL _{CL} Rated | | Original Schaefer (Discontinued, replaced by Tri-Seal High Capacity) | |
| | | Model | Order No. | Model | Order No. |
| 35 | No | 35FHIS4-PE | 93653505 | 35LDIS4-PE | 93443506 |
| | | 35FHIS4-PE | 93653507 | 35LDIS4-PE | 93443508 |
| | | 35FH2S4-PE | 93653509 | 35LD2S4-PE | 93443510 |
| | | 35FH3S4-PE | 93653512 | 35LD3S4-PE | 93443514 |
| | | 35FH5S4-PE | 93653520 | 35LD5S4-PE | 93443522 |
| | | 35FH7S4-PE | 93653529 | 35LD7S4-PE | 93443534 |
| | | 35FH10S4-PE | 93653538 | 35LD10S4-PE | 93443542 |
| | Yes | 35FHIS4-PECV | 93663505 | 35LDIS4-PE W/ Check valve | 90643506 |
| | | 35FHIS4-PECV | 93663507 | 35LDIS4-PE W/ Check valve | 90643508 |
| | | 35FH2S4-PECV | 93663509 | 35LD2S4-PE W/ Check valve | 90643510 |
| | | 35FH3S4-PECV | 93663512 | 35LD3S4-PE W/ Check valve | 90643514 |
| | | 35FH5S4-PECV | 93663520 | 35LD5S4-PE W/ Check valve | 90643522 |
| | | 35FH7S4-PECV | 93663529 | 35LD7S4-PE W/ Check valve | 90643534 |
| | | 35FH10S4-PECV | 93663538 | 35LD10S4-PE W/ Check valve | 90643542 |
| 45 | No | 45FHIS4-PE | 93654505 | 45LDIS4-PE | 93444506 |
| | | 45FH2S4-PE | 93654507 | 45LD2S4-PE | 93444508 |
| | | 45FH3S4-PE | 93654510 | 45LD3S4-PE | 93444511 |
| | | 45FH5S4-PE | 93654516 | 45LD5S4-PE | 93444518 |
| | | 45FH7S4-PE | 93654523 | 45LD7S4-PE | 93444526 |
| | | 45FH10S4-PE | 93654531 | 45LD10S4-PE | 93444531 |
| | Yes | 45FHIS4-PECV | 93664505 | 45LDIS4-PE W/ Check valve | 90644506 |
| | | 45FH2S4-PECV | 93664507 | 45LD2S4-PE W/ Check valve | 90644508 |
| | | 45FH3S4-PECV | 93664510 | 45LD3S4-PE W/ Check valve | 90644511 |
| | | 45FH5S4-PECV | 93664516 | 45LD5S4-PE W/ Check valve | 90644518 |
| | | 45FH7S4-PECV | 93664523 | 45LD7S4-PE W/ Check valve | 90644526 |
| | | 45FH10S4-PECV | 93664531 | 45LD10S4-PE W/ Check valve | 90644531 |
| 60 | No | 60FH2S4-PE | 93656007 | 60LD2S4-PE | 93446006 |
| | | 60FH3S4-PE | 93656010 | 60LD3S4-PE | 93446008 |
| | | 60FH5S4-PE | 93656016 | 60LD5S4-PE | 93446013 |
| | | 60FH7S4-PE | 93656023 | 60LD7S4-PE | 93446017 |
| | | 60FH10S4-PE | 93656030 | 60LD10S4-PE | 93446024 |
| | Yes | 60FH2S4-PECV | 93666007 | 60LD2S4-PE W/ Check valve | 90646006 |
| | | 60FH3S4-PECV | 93666010 | 60LD3S4-PE W/ Check valve | 90646008 |
| | | 60FH5S4-PECV | 93666016 | 60LD5S4-PE W/ Check valve | 90646013 |
| | | 60FH7S4-PECV | 93666023 | 60LD7S4-PE W/ Check valve | 90646017 |
| | | 60FH10S4-PECV | 93666030 | 60LD10S4-PE W/ Check valve | 90646024 |
| 90 | No | 90FH2S4-PE | 93659006 | 90LD2S4-PE | 93449005 |
| | | 90FH3S4-PE | 93659008 | 90LD3S4-PE | 93449007 |
| | | 90FH5S4-PE | 93659013 | 90LD5S4-PE | 93449012 |
| | | 90FH7S4-PE | 93659019 | 90LD7S4-PE | 93449019 |
| | | 90FH10S4-PE | 93659025 | 90LD10S4-PE | 93449020 |
| | Yes | 90FH2S4-PECV | 93669006 | 90LD2S4-PE W/ Check valve | 90649005 |
| | | 90FH3S4-PECV | 93669008 | 90LD3S4-PE W/ Check valve | 90649007 |
| | | 90FH5S4-PECV | 93669013 | 90LD5S4-PE W/ Check valve | 90649012 |
| | | 90FH7S4-PECV | 93669019 | 90LD7S4-PE W/ Check valve | 90649019 |
| | | 90FH10S4-PECV | 93669025 | 90LD10S4-PE W/ Check valve | 90649020 |

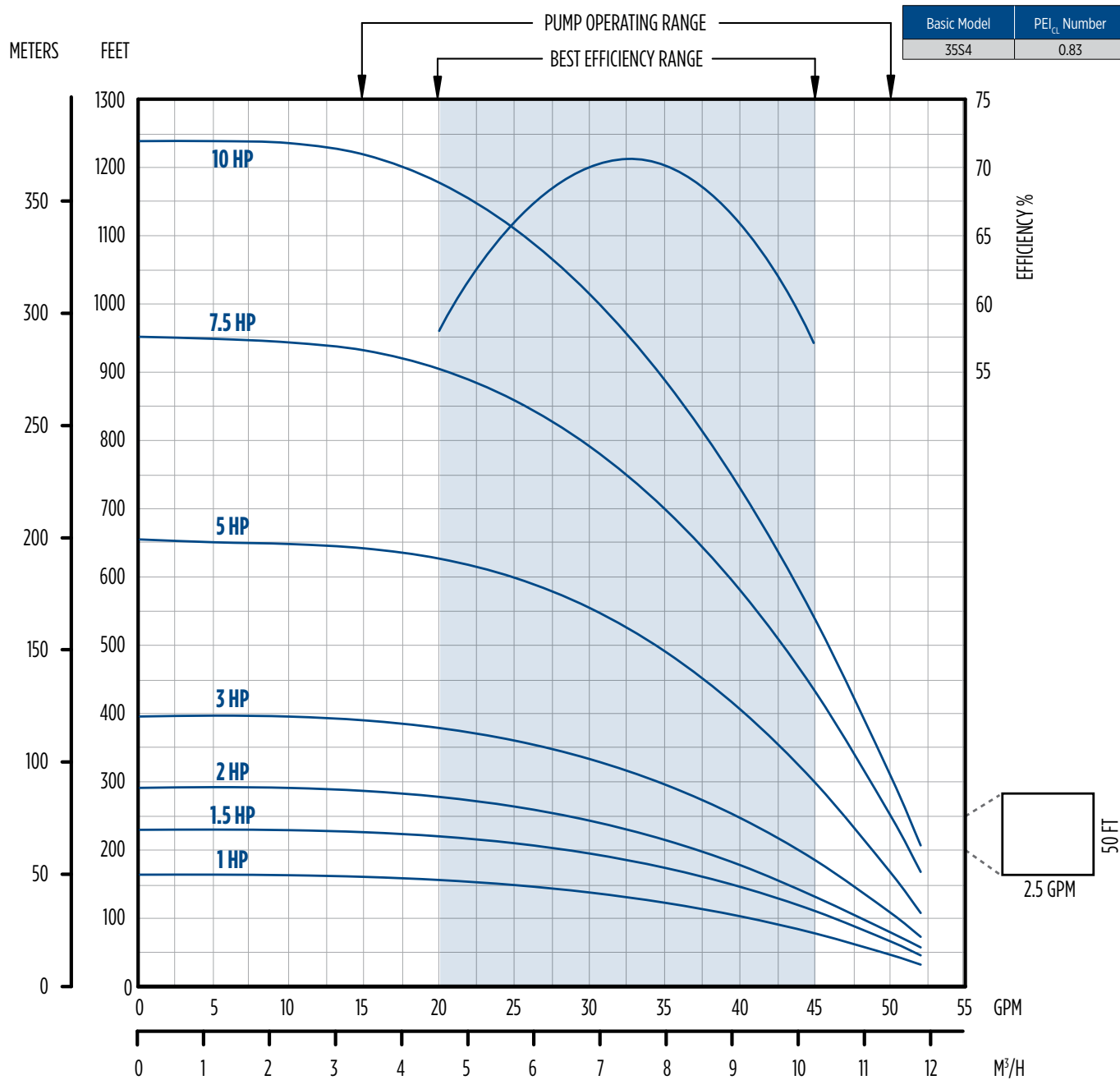
DOE COMPLIANT VS ORIGINAL SCHAEFER PUMP & MOTOR

| 1 - 1.5 HP Single-Phase Units (2-Wire PMA) | | | | | |
|--|---------------------------------|---|-----------|--|-----------|
| GPM | Check Valve in 2" NPT Discharge | Tri-Seal High Capacity, DOE PEL _{CL} Rated | | Original Schaefer (Discontinued, replaced by Tri-Seal High Capacity) | |
| | | Model | Order No. | Model | Order No. |
| 35 | No | 35FHIS4-2W230 | 93673505 | 35LDIS4-2W230 | 93443606 |
| | | 35FHIS4-2W230 | 93673507 | 35LDIS4-2W230 | 93443608 |
| | Yes | 35FHIS4-2W230-CV | 93693505 | 35LDIS4-2W230 W/ CV | 90643606 |
| | | 35FHIS4-2W230-CV | 93693507 | 35LDIS4-2W230 W/ CV | 90643608 |
| 45 | No | 45FHIS4-2W230 | 93674505 | 45LDIS4-2W230 | 93444606 |
| | Yes | 45FHIS4-2W230-CV | 93694505 | 45LDIS4-2W230 W/ CV | 90644606 |

| 1 - 1.5 HP Single-Phase Units (3-Wire PMA) | | | | | |
|--|---------------------------------|---|-----------|--|-----------|
| GPM | Check Valve in 2" NPT Discharge | Tri-Seal High Capacity, DOE PEL _{CL} Rated | | Original Schaefer (Discontinued, replaced by Tri-Seal High Capacity) | |
| | | Model | Order No. | Model | Order No. |
| 35 | No | 35FHIS4-3W230 | 93703505 | 35LDIS4-3W230 | 93443706 |
| | | 35FHIS4-3W230 | 93703507 | 35LDIS4-3W230 | 93443708 |
| | Yes | 35FHIS4-3W230-CV | 93713505 | 35LDIS4-3W230 W/ CV | 90643706 |
| | | 35FHIS4-3W230-CV | 93713507 | 35LDIS4-3W230 W/ CV | 90643708 |
| 45 | No | 45FHIS4-3W230 | 93704505 | 45LDIS4-3W230 | 93444706 |
| | Yes | 45FHIS4-3W230-CV | 93714505 | 45LDIS4-3W230 W/ CV | 90644706 |

4" TRI-SEAL HIGH CAPACITY PUMPS - 35 GPM

PERFORMANCE



4" TRI-SEAL HIGH CAPACITY PUMPS - 35 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | Shut-Off (ft) |
| 1 | 0 | | | | | 44 | 40 | 35 | 28 | | | | | | | | | | | 161 |
| | 10 | | | | 44 | 39 | 34 | 27 | | | | | | | | | | | | |
| | 20 | | | 43 | 39 | 33 | 25 | | | | | | | | | | | | | |
| | 30 | | 42 | 38 | 32 | 23 | | | | | | | | | | | | | | |
| | 40 | 42 | 37 | 31 | | | | | | | | | | | | | | | | |
| | 50 | 36 | 30 | | | | | | | | | | | | | | | | | |
| | 60 | 29 | | | | | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 70 | 61 | 52 | 44 | 35 | 26 | 18 | 9 | | | | | | | | | | | |
| 1.5 | 0 | | | | | 46 | 43 | 43 | 41 | 37 | 33 | 28 | | | | | | | 230 | |
| | 10 | | | | | 46 | 43 | 40 | 37 | 32 | 27 | | | | | | | | | |
| | 20 | | | | 45 | 43 | 40 | 36 | 32 | 26 | | | | | | | | | | |
| | 30 | | | 45 | 42 | 39 | 35 | 31 | 24 | | | | | | | | | | | |
| | 40 | | 44 | 42 | 39 | 35 | 30 | 23 | | | | | | | | | | | | |
| | 50 | 44 | 41 | 38 | 34 | 29 | 21 | | | | | | | | | | | | | |
| | 60 | 41 | 37 | 33 | 28 | | | | | | | | | | | | | | | |
| | 70 | 37 | 33 | 27 | | | | | | | | | | | | | | | | |
| | 80 | 32 | 26 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 100 | 91 | 82 | 74 | 65 | 56 | 48 | 39 | 30 | 22 | 13 | | | | | | | | |
| 2 | 0 | | | | | | | | 44 | 42 | 40 | 37 | 30 | | | | | | 300 | |
| | 10 | | | | | | | 44 | 42 | 39 | 36 | 33 | 25 | | | | | | | |
| | 20 | | | | | 46 | 43 | 41 | 39 | 36 | 33 | 29 | | | | | | | | |
| | 30 | | | | 45 | 43 | 41 | 38 | 35 | 32 | 28 | 23 | | | | | | | | |
| | 40 | | | 45 | 43 | 40 | 38 | 35 | 32 | 27 | 22 | | | | | | | | | |
| | 50 | | 45 | 42 | 40 | 37 | 34 | 31 | 27 | 20 | | | | | | | | | | |
| | 60 | 44 | 42 | 40 | 37 | 34 | 30 | 26 | | | | | | | | | | | | |
| | 70 | 42 | 39 | 37 | 33 | 30 | 25 | | | | | | | | | | | | | |
| | 80 | 39 | 36 | 33 | 29 | 24 | | | | | | | | | | | | | | |
| Shut-off PSI | | 130 | 121 | 113 | 104 | 95 | 87 | 78 | 69 | 61 | 52 | 43 | 26 | | | | | | | |
| 3 | 0 | | | | | | | | | 45 | 44 | 40 | 37 | 32 | 25 | | | | 400 | |
| | 10 | | | | | | | | 45 | 43 | 42 | 38 | 34 | 28 | | | | | | |
| | 20 | | | | | | | | 45 | 43 | 42 | 40 | 36 | 31 | 23 | | | | | |
| | 30 | | | | | | | 44 | 43 | 41 | 40 | 38 | 33 | 27 | | | | | | |
| | 40 | | | | | | 44 | 43 | 41 | 39 | 37 | 35 | 30 | | | | | | | |
| | 50 | | | | 45 | 44 | 42 | 41 | 39 | 37 | 35 | 32 | 26 | | | | | | | |
| | 60 | | | 45 | 44 | 42 | 41 | 39 | 37 | 34 | 32 | 29 | | | | | | | | |
| | 70 | | 45 | 44 | 42 | 40 | 38 | 36 | 34 | 31 | 28 | 24 | | | | | | | | |
| | 80 | 45 | 43 | 42 | 40 | 38 | 36 | 34 | 31 | 28 | 23 | | | | | | | | | |
| Shut-off PSI | | 173 | 165 | 156 | 147 | 139 | 130 | 121 | 113 | 104 | 95 | 87 | 69 | 52 | 35 | 17 | | | | |

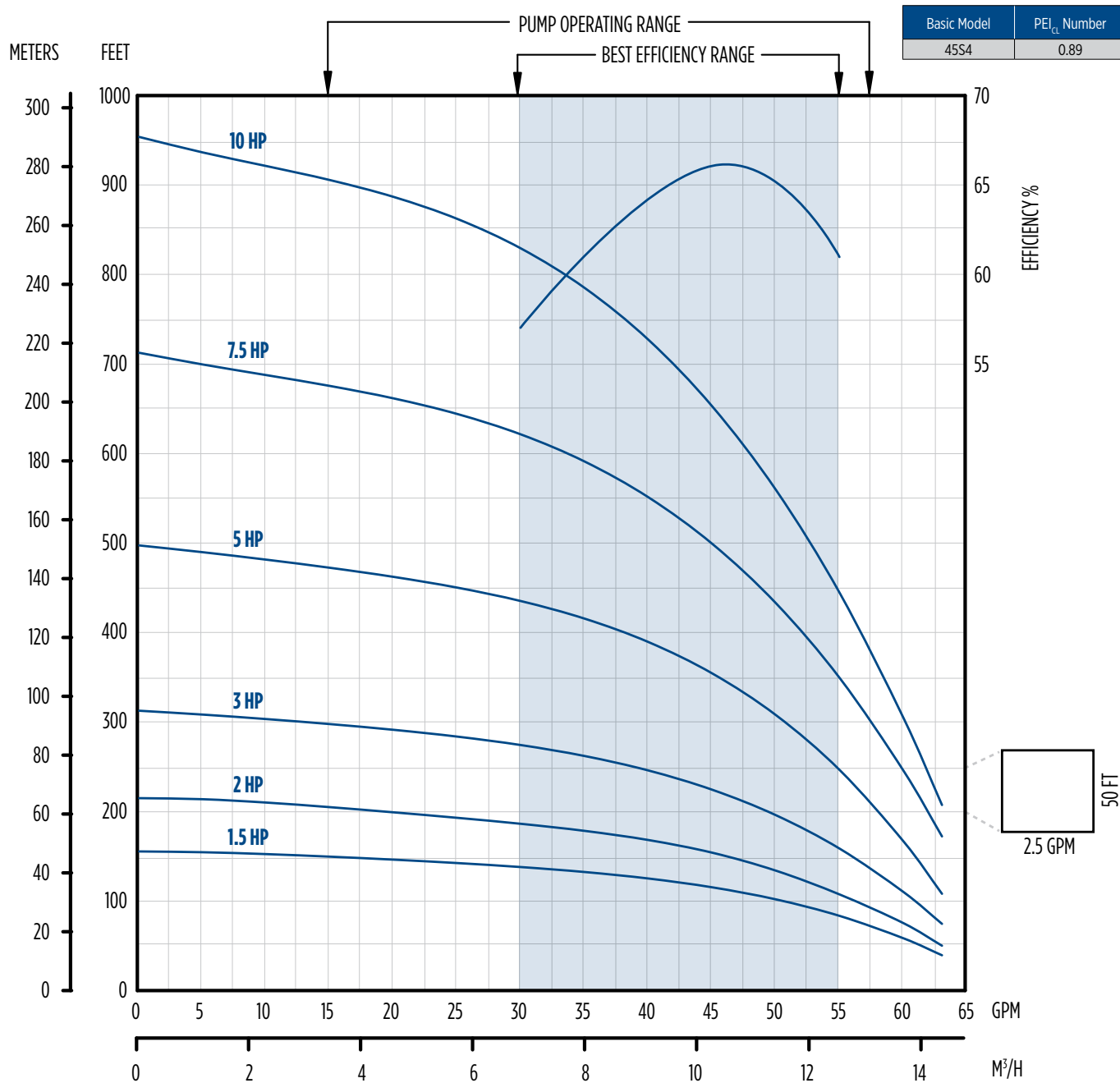
| HP | PSI | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 5 | 0 | | | | | | | | 44 | 42 | 40 | 38 | 36 | 34 | 30 | 24 | | | | | 650 |
| | 10 | | | | | | | 45 | 43 | 41 | 39 | 37 | 34 | 32 | 28 | 20 | | | | | |
| | 20 | | | | | | | 44 | 42 | 40 | 38 | 35 | 32 | 30 | 25 | | | | | | |
| | 30 | | | | | | 45 | 43 | 41 | 39 | 36 | 33 | 30 | 28 | 21 | | | | | | |
| | 40 | | | | | 45 | 44 | 42 | 40 | 37 | 35 | 32 | 28 | 25 | | | | | | | |
| | 50 | | | | 45 | 44 | 42 | 41 | 38 | 36 | 33 | 29 | 25 | 22 | | | | | | | |
| | 60 | | | 45 | 44 | 43 | 41 | 39 | 37 | 34 | 31 | 27 | 21 | | | | | | | | |
| | 70 | | 45 | 44 | 43 | 42 | 40 | 38 | 35 | 32 | 29 | 24 | | | | | | | | | |
| | 80 | 45 | 44 | 43 | 42 | 41 | 39 | 37 | 34 | 30 | 26 | | | | | | | | | | |
| Shut-off PSI | | 229 | 221 | 212 | 203 | 195 | 177 | 160 | 143 | 126 | 108 | 91 | 74 | 65 | 43 | 22 | | | | | |

| HP | PSI | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|---------------|
| 7.5 | 0 | | | | | | 45 | 43 | 43 | 41 | 39 | 37 | 35 | 32 | 29 | 25 | 20 | | | | | | 950 |
| | 10 | | | | | | 44 | 43 | 42 | 40 | 38 | 36 | 34 | 31 | 28 | 23 | | | | | | | |
| | 20 | | | | | 45 | 43 | 42 | 41 | 39 | 37 | 35 | 33 | 30 | 26 | 21 | | | | | | | |
| | 30 | | | | 45 | 44 | 43 | 41 | 40 | 38 | 36 | 34 | 31 | 28 | 24 | | | | | | | | |
| | 40 | | | 46 | 44 | 43 | 42 | 40 | 40 | 38 | 35 | 33 | 30 | 26 | 21 | | | | | | | | |
| | 50 | | | 45 | 44 | 43 | 42 | 41 | 39 | 39 | 37 | 34 | 31 | 28 | 24 | | | | | | | | |
| | 60 | | 45 | 44 | 43 | 42 | 40 | 39 | 38 | 35 | 33 | 30 | 26 | 22 | | | | | | | | | |
| | 70 | | 45 | 43 | 42 | 41 | 39 | 38 | 37 | 34 | 32 | 28 | 24 | | | | | | | | | | |
| | 80 | 45 | 44 | 43 | 41 | 40 | 38 | 37 | 36 | 33 | 30 | 27 | 22 | | | | | | | | | | |
| Shut-off PSI | | 307 | 290 | 273 | 255 | 238 | 221 | 203 | 195 | 173 | 152 | 130 | 108 | 87 | 65 | 43 | 22 | | | | | | |
| 10 | 0 | | | | | | | | | 45 | 43 | 42 | 41 | 39 | 38 | 36 | 35 | 33 | 31 | 28 | 25 | 22 | 1250 |
| | 10 | | | | | | | | | 45 | 44 | 43 | 42 | 41 | 40 | 38 | 36 | 35 | 33 | 31 | 28 | 24 | |
| | 20 | | | | | | | | | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 37 | 36 | 34 | 32 | 27 | 20 | |
| | 30 | | | | | | | | | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 37 | 36 | 34 | 32 | 27 | | |
| | 40 | | | | | | 45 | 44 | 44 | 42 | 41 | 40 | 38 | 37 | 35 | 33 | 31 | 28 | 26 | 22 | | | |
| | 50 | | | | | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 37 | 36 | 34 | 32 | 30 | 27 | 24 | 21 | | |
| | 60 | | | | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 38 | 37 | 35 | 33 | 31 | 29 | 26 | 23 | | | | |
| | 70 | | | | 45 | 44 | 43 | 42 | 42 | 41 | 39 | 38 | 36 | 34 | 32 | 30 | 28 | 25 | 21 | | | | |
| | 80 | | | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 38 | 37 | 35 | 33 | 31 | 29 | 26 | 23 | | | | | |
| Shut-off PSI | | | | 403 | 385 | 368 | 351 | 333 | 325 | 303 | 281 | 260 | 238 | 216 | 195 | 173 | 152 | 130 | 108 | 87 | 65 | 43 | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performance shown is based on a pump without check valve.

4" TRI-SEAL HIGH CAPACITY PUMPS - 45 GPM

PERFORMANCE



4" TRI-SEAL HIGH CAPACITY PUMPS - 45 GPM

PERFORMANCE

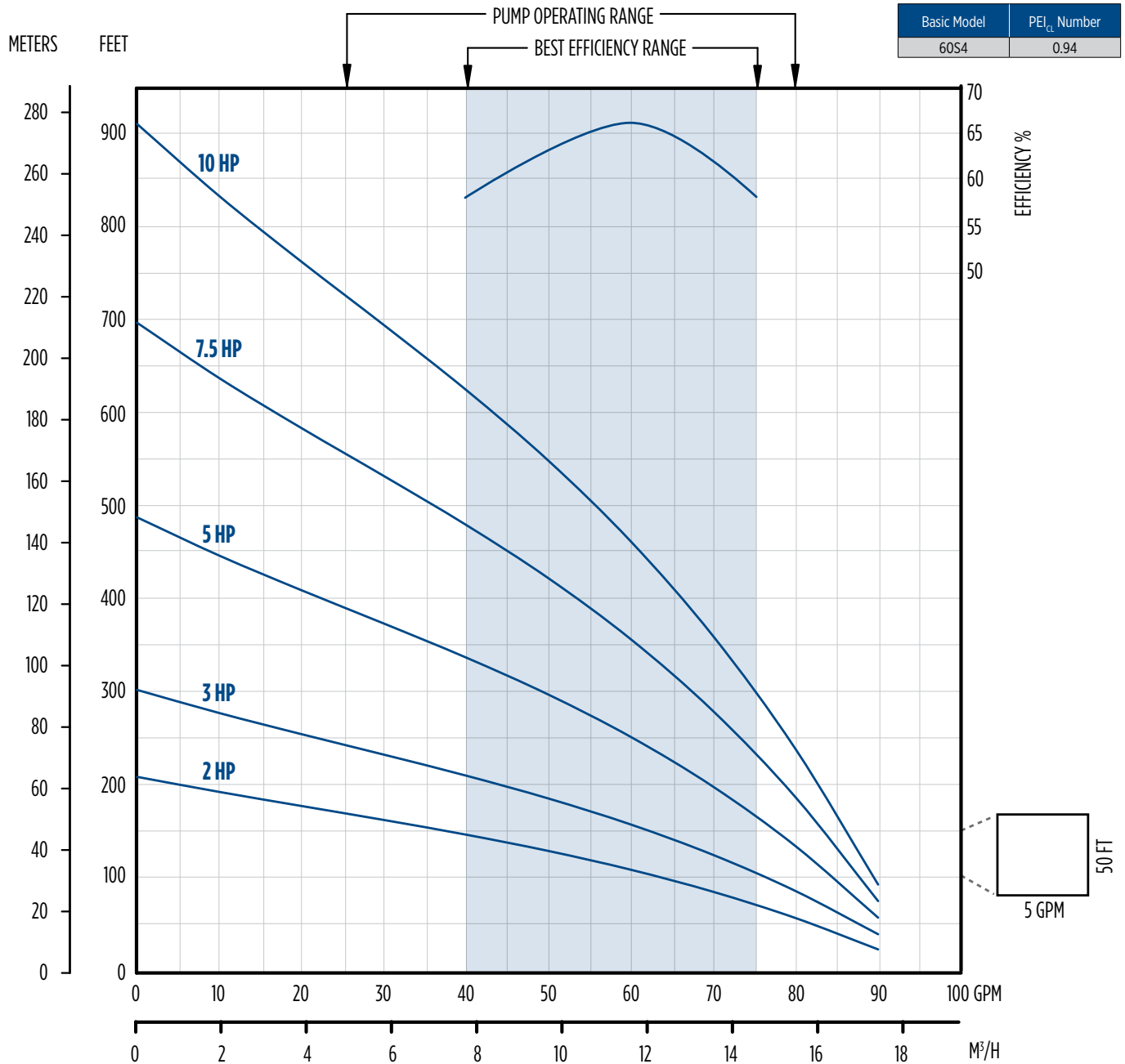
| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | |
| 1.5 | 0 | | | | | 55 | 50 | 43 | | | | | | | | | | | | | 156 |
| | 10 | | | | 54 | 49 | 41 | | | | | | | | | | | | | | |
| | 20 | | | 54 | 48 | 39 | | | | | | | | | | | | | | | |
| | 30 | | 53 | 47 | 38 | | | | | | | | | | | | | | | | |
| | 40 | 52 | 46 | 36 | | | | | | | | | | | | | | | | | |
| | 50 | 44 | 33 | | | | | | | | | | | | | | | | | | |
| | 60 | 30 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 68 | 59 | 50 | 42 | 33 | 24 | 16 | | | | | | | | | | | | | |
| 2 | 0 | | | | | | 52 | 48 | 43 | 35 | | | | | | | | | | | 216 |
| | 10 | | | | | | 52 | 47 | 42 | 33 | | | | | | | | | | | |
| | 20 | | | | 55 | 51 | 47 | 41 | 31 | | | | | | | | | | | | |
| | 30 | | | 54 | 51 | 46 | 39 | 29 | | | | | | | | | | | | | |
| | 40 | | 54 | 50 | 45 | 38 | | | | | | | | | | | | | | | |
| | 50 | 53 | 49 | 44 | 37 | | | | | | | | | | | | | | | | |
| | 60 | 48 | 43 | 35 | | | | | | | | | | | | | | | | | |
| | 70 | 42 | 34 | | | | | | | | | | | | | | | | | | |
| | 80 | 32 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 94 | 85 | 76 | 68 | 59 | 50 | 42 | 33 | 24 | 16 | | | | | | | | | | |
| 3 | 0 | | | | | | | | 54 | 52 | 49 | 41 | | | | | | | | | 312 |
| | 10 | | | | | | | | 54 | 51 | 48 | 45 | 35 | | | | | | | | |
| | 20 | | | | | | | 54 | 51 | 48 | 44 | 40 | | | | | | | | | |
| | 30 | | | | | | 53 | 50 | 47 | 44 | 39 | 32 | | | | | | | | | |
| | 40 | | | | 55 | 53 | 50 | 47 | 43 | 38 | 31 | | | | | | | | | | |
| | 50 | | | 55 | 52 | 50 | 46 | 42 | 37 | | | | | | | | | | | | |
| | 60 | | 55 | 52 | 49 | 46 | 42 | 36 | | | | | | | | | | | | | |
| | 70 | 54 | 52 | 49 | 45 | 41 | 35 | | | | | | | | | | | | | | |
| | 80 | 51 | 48 | 44 | 40 | 34 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 135 | 126 | 118 | 109 | 100 | 92 | 83 | 74 | 66 | 57 | 48 | 31 | | | | | | | | |
| 5 | 0 | | | | | | | | | | | 55 | 52 | 48 | 44 | 38 | | | | | 500 |
| | 10 | | | | | | | | | | | 53 | 50 | 46 | 41 | 33 | | | | | |
| | 20 | | | | | | | | | | | 55 | 51 | 48 | 43 | 37 | | | | | |
| | 30 | | | | | | | | 56 | 54 | 53 | 49 | 45 | 40 | 32 | | | | | | |
| | 40 | | | | | | | 56 | 54 | 53 | 51 | 47 | 42 | 36 | | | | | | | |
| | 50 | | | | | | 55 | 54 | 52 | 51 | 49 | 45 | 39 | 30 | | | | | | | |
| | 60 | | | | | 55 | 54 | 52 | 50 | 49 | 46 | 42 | 34 | | | | | | | | |
| | 70 | | | | 55 | 53 | 52 | 50 | 48 | 46 | 44 | 38 | | | | | | | | | |
| | 80 | | | | 53 | 52 | 50 | 48 | 46 | 43 | 41 | 33 | | | | | | | | | |
| Shut-off PSI | | | | | 182 | 173 | 165 | 156 | 147 | 139 | 130 | 113 | 95 | 78 | 61 | 43 | | | | | |

| HP | PSI | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 7.5 | 0 | | | | | | | 54 | 52 | 49 | 46 | 45 | 40 | 34 | | | | | | | 707 |
| | 10 | | | | | | 55 | 53 | 50 | 48 | 44 | 43 | 37 | 30 | | | | | | | |
| | 20 | | | | | | 54 | 52 | 49 | 46 | 42 | 40 | 34 | | | | | | | | |
| | 30 | | | | | 55 | 53 | 50 | 47 | 44 | 40 | 38 | 30 | | | | | | | | |
| | 40 | | | | 56 | 54 | 51 | 48 | 45 | 42 | 37 | 35 | | | | | | | | | |
| | 50 | | | | 54 | 52 | 50 | 47 | 43 | 39 | 34 | 31 | | | | | | | | | |
| | 60 | | | 55 | 53 | 51 | 48 | 45 | 41 | 37 | 30 | | | | | | | | | | |
| | 70 | | 55 | 54 | 52 | 49 | 46 | 43 | 39 | 33 | | | | | | | | | | | |
| | 80 | 55 | 54 | 53 | 50 | 48 | 44 | 41 | 36 | | | | | | | | | | | | |
| Shut-off PSI | | 237 | 228 | 219 | 202 | 185 | 168 | 150 | 133 | 116 | 98 | 90 | 68 | 46 | | | | | | | |
| 10 | 0 | | | | | | | | | 55 | 53 | 53 | 50 | 48 | 45 | 42 | 38 | 33 | | | 950 |
| | 10 | | | | | | | | | 56 | 54 | 52 | 52 | 49 | 47 | 44 | 40 | 36 | 31 | | |
| | 20 | | | | | | | | | 55 | 53 | 51 | 51 | 48 | 45 | 42 | 38 | 34 | | | |
| | 30 | | | | | | | 56 | 54 | 52 | 50 | 49 | 47 | 44 | 40 | 36 | 31 | | | | |
| | 40 | | | | | | | 55 | 53 | 51 | 49 | 48 | 46 | 42 | 39 | 34 | | | | | |
| | 50 | | | | | 55 | 54 | 52 | 50 | 48 | 47 | 44 | 41 | 37 | 31 | | | | | | |
| | 60 | | | | | 56 | 54 | 53 | 51 | 49 | 47 | 46 | 43 | 39 | 34 | | | | | | |
| | 70 | | | | 55 | 53 | 52 | 50 | 48 | 46 | 44 | 41 | 37 | 32 | | | | | | | |
| | 80 | | | | 56 | 54 | 52 | 51 | 49 | 47 | 44 | 43 | 39 | 35 | | | | | | | |
| Shut-off PSI | | | | | 307 | 290 | 273 | 255 | 238 | 221 | 203 | 195 | 173 | 152 | 130 | 108 | 87 | 65 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performances for former XP models are the same as 45 gpm models. Performance shown is based on a pump without check valve.

4" TRI-SEAL HIGH CAPACITY PUMPS - 60 GPM

PERFORMANCE



4" TRI-SEAL HIGH CAPACITY PUMPS - 60 GPM

PERFORMANCE

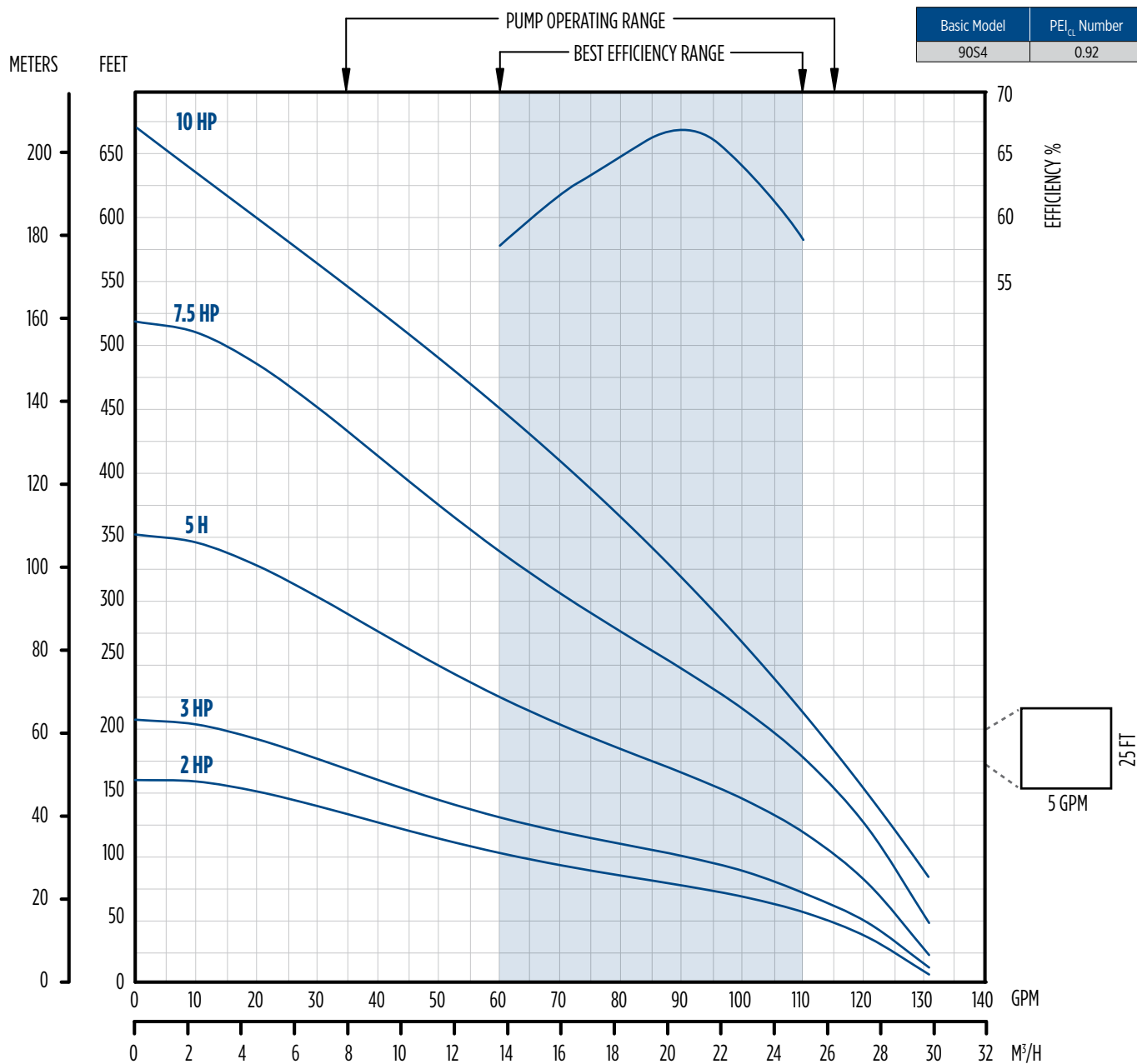
| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | | |
| 2 | 0 | | | | 79 | 72 | 64 | 55 | 45 | | | | | | | | | | | 206 | |
| | 10 | | | 78 | 71 | 63 | 54 | 43 | | | | | | | | | | | | | |
| | 20 | | 77 | 70 | 62 | 52 | 41 | | | | | | | | | | | | | | |
| | 30 | 76 | 69 | 60 | 51 | | | | | | | | | | | | | | | | |
| | 40 | 68 | 59 | 49 | | | | | | | | | | | | | | | | | |
| | 50 | 57 | 47 | | | | | | | | | | | | | | | | | | |
| | 60 | 45 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 89 | 81 | 72 | 63 | 55 | 46 | 37 | 29 | | | | | | | | | | | | |
| 3 | 0 | | | | | 82 | 77 | 71 | 66 | 59 | 52 | 44 | | | | | | | 300 | | |
| | 10 | | | | 81 | 76 | 71 | 65 | 58 | 51 | 43 | | | | | | | | | | |
| | 20 | | | 80 | 75 | 70 | 64 | 57 | 50 | 42 | | | | | | | | | | | |
| | 30 | | 79 | 74 | 69 | 63 | 56 | 49 | 40 | | | | | | | | | | | | |
| | 40 | 79 | 74 | 68 | 62 | 55 | 47 | 39 | | | | | | | | | | | | | |
| | 50 | 73 | 67 | 61 | 54 | 46 | 38 | 29 | | | | | | | | | | | | | |
| | 60 | 66 | 60 | 53 | 45 | | | | | | | | | | | | | | | | |
| | 70 | 59 | 52 | 44 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 130 | 121 | 113 | 104 | 95 | 87 | 78 | 69 | 61 | 52 | 43 | | | | | | | | | |
| 5 | 0 | | | | | | | 82 | 79 | 76 | 73 | 70 | 62 | 54 | 44 | | | | 485 | | |
| | 10 | | | | | | 82 | 79 | 76 | 73 | 69 | 66 | 58 | 49 | | | | | | | |
| | 20 | | | | | 81 | 78 | 75 | 72 | 69 | 65 | 61 | 53 | 43 | | | | | | | |
| | 30 | | | | 81 | 78 | 75 | 72 | 68 | 64 | 60 | 56 | 47 | | | | | | | | |
| | 40 | | | 80 | 77 | 74 | 71 | 68 | 64 | 60 | 56 | 51 | 41 | | | | | | | | |
| | 50 | | 80 | 77 | 74 | 71 | 67 | 63 | 59 | 55 | 50 | 45 | | | | | | | | | |
| | 60 | 79 | 76 | 73 | 70 | 66 | 63 | 59 | 54 | 50 | 45 | 40 | | | | | | | | | |
| | 70 | 76 | 73 | 69 | 66 | 62 | 58 | 54 | 49 | 44 | 39 | | | | | | | | | | |
| Shut-off PSI | | 210 | 201 | 193 | 184 | 175 | 167 | 158 | 149 | 141 | 132 | 123 | 106 | 89 | 71 | | | | | | |
| 7.5 | 0 | | | | | | | | | | 81 | 79 | 75 | 70 | 65 | 60 | 54 | 47 | 40 | 700 | |
| | 10 | | | | | | | | | 80 | 78 | 76 | 72 | 67 | 62 | 56 | 50 | 43 | | | |
| | 20 | | | | | | | | 80 | 78 | 76 | 74 | 69 | 64 | 59 | 53 | 46 | | | | |
| | 30 | | | | | | | 80 | 78 | 76 | 74 | 71 | 66 | 61 | 55 | 49 | 42 | | | | |
| | 40 | | | | | | 80 | 78 | 75 | 73 | 71 | 69 | 63 | 58 | 52 | 45 | | | | | |
| | 50 | | | | 81 | 79 | 77 | 75 | 73 | 71 | 68 | 66 | 60 | 54 | 48 | 41 | | | | | |
| | 60 | | | 81 | 79 | 77 | 75 | 72 | 70 | 68 | 65 | 63 | 57 | 51 | 44 | | | | | | |
| | 70 | | 81 | 79 | 77 | 74 | 72 | 70 | 67 | 65 | 62 | 59 | 53 | 47 | 40 | | | | | | |
| Shut-off PSI | | 303 | 294 | 286 | 277 | 268 | 260 | 251 | 242 | 234 | 225 | 216 | 199 | 182 | 165 | 147 | 130 | 113 | 95 | | |

| HP | PSI | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 10 | 0 | | | | | | | | | | 80 | 77 | 74 | 70 | 66 | 62 | 58 | 56 | 50 | 43 | 905 |
| | 10 | | | | | | | | | 81 | 78 | 75 | 72 | 68 | 64 | 60 | 55 | 53 | 47 | 40 | |
| | 20 | | | | | | | | 81 | 79 | 76 | 73 | 69 | 66 | 62 | 57 | 53 | 50 | 44 | | |
| | 30 | | | | | | | 81 | 79 | 78 | 74 | 71 | 67 | 63 | 59 | 55 | 50 | 47 | 41 | | |
| | 40 | | | | | | 81 | 79 | 77 | 76 | 72 | 69 | 65 | 61 | 57 | 52 | 47 | 44 | | | |
| | 50 | | | | | 80 | 79 | 77 | 76 | 74 | 70 | 67 | 63 | 58 | 54 | 49 | 44 | 41 | | | |
| | 60 | | | | 80 | 79 | 77 | 75 | 74 | 72 | 68 | 64 | 60 | 56 | 51 | 46 | 41 | | | | |
| | 70 | | 81 | 80 | 78 | 77 | 75 | 73 | 72 | 70 | 66 | 62 | 58 | 53 | 48 | 43 | | | | | |
| Shut-off PSI | | 374 | 366 | 357 | 348 | 340 | 331 | 323 | 314 | 305 | 288 | 271 | 253 | 236 | 219 | 201 | 184 | 175 | 154 | 132 | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performances for former XP models are the same as 45 gpm models. Performance shown is based on a pump without check valve.

4" TRI-SEAL HIGH CAPACITY PUMPS - 90 GPM

PERFORMANCE



4" TRI-SEAL HIGH CAPACITY PUMPS - 90 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | |
| 2 | 0 | | | | 104 | 89 | | | | | | | | | | | | | 170 |
| | 10 | | | 102 | 86 | 67 | | | | | | | | | | | | | |
| | 20 | | 100 | 83 | 64 | | | | | | | | | | | | | | |
| | 30 | 97 | 80 | 60 | | | | | | | | | | | | | | | |
| | 40 | 77 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 74 | 65 | 56 | 48 | 39 | | | | | | | | | | | | | |
| 3 | 0 | | | | | 103 | 90 | 76 | | | | | | | | | | | 220 |
| | 10 | | | | 101 | 88 | 73 | | | | | | | | | | | | |
| | 20 | | 110 | 99 | 86 | 71 | | | | | | | | | | | | | |
| | 30 | 109 | 97 | 84 | 68 | | | | | | | | | | | | | | |
| | 40 | 95 | 81 | 65 | | | | | | | | | | | | | | | |
| | 50 | 79 | 63 | | | | | | | | | | | | | | | | |
| | 60 | 60 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 95 | 87 | 78 | 69 | 61 | 52 | 43 | | | | | | | | | | | |
| 5 | 0 | | | | | | | 106 | 99 | 92 | 84 | 76 | | | | | | | 365 |
| | 10 | | | | | | 105 | 98 | 91 | 83 | 74 | 65 | | | | | | | |
| | 20 | | | | 110 | 104 | 97 | 90 | 82 | 73 | 64 | | | | | | | | |
| | 30 | | | 109 | 103 | 96 | 88 | 80 | 72 | 62 | | | | | | | | | |
| | 40 | | 108 | 102 | 95 | 87 | 79 | 70 | 61 | | | | | | | | | | |
| | 50 | 107 | 101 | 94 | 86 | 78 | 69 | 60 | | | | | | | | | | | |
| | 60 | 100 | 92 | 85 | 76 | 67 | | | | | | | | | | | | | |
| | 70 | 91 | 83 | 75 | 66 | | | | | | | | | | | | | | |
| | 80 | 82 | 74 | 65 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 158 | 149 | 141 | 132 | 123 | 115 | 106 | 97 | 89 | 80 | 71 | | | | | | | |
| 7.5 | 0 | | | | | | | | 111 | 106 | 101 | 91 | 81 | 69 | | | | | 535 |
| | 10 | | | | | | | 110 | 105 | 101 | 96 | 85 | 74 | 62 | | | | | |
| | 20 | | | | | | 109 | 105 | 100 | 95 | 90 | 79 | 68 | | | | | | |
| | 30 | | | | | 108 | 104 | 99 | 94 | 89 | 84 | 73 | 60 | | | | | | |
| | 40 | | | | 108 | 103 | 98 | 93 | 88 | 83 | 77 | 66 | | | | | | | |
| | 50 | | | 107 | 102 | 98 | 93 | 87 | 82 | 76 | 71 | | | | | | | | |
| | 60 | | 111 | 106 | 102 | 97 | 92 | 87 | 81 | 76 | 70 | 64 | | | | | | | |
| | 70 | 110 | 106 | 101 | 96 | 91 | 86 | 80 | 75 | 69 | 63 | | | | | | | | |
| | 80 | 105 | 100 | 95 | 90 | 85 | 79 | 74 | 68 | 62 | | | | | | | | | |
| Shut-off PSI | | 232 | 223 | 214 | 206 | 197 | 188 | 180 | 171 | 162 | 154 | 145 | 128 | 110 | 93 | | | | |
| 10 | 0 | | | | | | | | | | 112 | 105 | 98 | 90 | 82 | 74 | 65 | | 680 |
| | 10 | | | | | | | | | | 112 | 108 | 101 | 93 | 86 | 77 | 69 | 60 | |
| | 20 | | | | | | | | | 111 | 108 | 104 | 97 | 89 | 81 | 73 | 64 | | |
| | 30 | | | | | | 114 | 111 | 107 | 104 | 100 | 92 | 84 | 76 | 68 | 59 | | | |
| | 40 | | | | | 114 | 110 | 107 | 103 | 99 | 95 | 88 | 80 | 71 | 62 | | | | |
| | 50 | | | | 113 | 110 | 106 | 102 | 99 | 95 | 91 | 83 | 75 | 66 | | | | | |
| | 60 | | | 113 | 109 | 105 | 101 | 98 | 94 | 90 | 86 | 78 | 70 | 61 | | | | | |
| | 70 | | | 112 | 109 | 105 | 101 | 98 | 94 | 90 | 86 | 73 | 65 | | | | | | |
| | 80 | | 112 | 108 | 104 | 101 | 97 | 93 | 89 | 85 | 81 | 77 | 69 | 60 | | | | | |
| Shut-off PSI | | 294 | 286 | 277 | 268 | 260 | 251 | 242 | 234 | 225 | 216 | 208 | 190 | 173 | 156 | 139 | 121 | 104 | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performance shown is based on a pump without check valve.

6" TRI-SEAL HIGH CAPACITY PUMPS

Ideal for farm, home, irrigation, industry, municipal, and commercial applications, equipped with the power, performance, and reliability you expect from Franklin Electric.

FEATURES

- Heavy-duty stainless steel discharge head and motor bracket
- Stainless steel shaft, shell, intake screen, and cable guard provides corrosion resistance and longer pump life
- High flow hydraulic staging allows for maximum pump output, exceeds all energy efficiency standards, and provides increased product longevity
- Glass-filled modified PPO impeller stage assemblies provide exceptional strength and durability
- Ceramic shaft sleeve and rubber discharge bearing minimizes bearing wear and shaft misalignment
- 3" NPT heavy-duty stainless steel discharge head
- Modular motor bracket enabling 4" or 6" motor mount for 5-10 hp units
- Flow ratings of 50, 75, 100, and 125 gpm with TDH up to 1400 ft
- Horsepower ranges from 1-1/2 to 40 hp

MODEL NO. EXPLANATION

Example: 50FH2S6-PE

- 50 = gpm
- FH = Franklin Electric Brand
- 2 = 2 hp
- S = Stainless
- 6 = 6" Submersible
- PE = Pump End



6" TRI-SEAL HIGH CAPACITY PUMPS - ORDERING INFORMATION

ORDERING INFORMATION

| 6" Tri-Seal High Capacity Pump Ends | | | | | | | | |
|-------------------------------------|-----|--------|--------------|-------------|--------------|-----------|-------------|--------------------------|
| GPM | HP | Stages | Weight (lbs) | Length (in) | Model | Order No. | Basic Model | PEI _{CL} Number |
| 50 | 1.5 | 3 | 30 | 13.5 | 50FH15S6-PE | 93655003 | 50S6 | 1.00 |
| | 2 | 4 | 31 | 15.1 | 50FH2S6-PE | 93655004 | | |
| | 3 | 5 | 32 | 16.8 | 50FH3S6-PE | 93655005 | | |
| | 5 | 8 | 36 | 21.6 | 50FH5S6-PE | 93655008 | | |
| | 7.5 | 11 | 40 | 26.5 | 50FH7S6-PE | 93655011 | | |
| | 10 | 15 | 46 | 32.9 | 50FH10S6-PE | 93655015 | | |
| 75 | 15 | 22 | 46 | 47.6 | 50FH015S6-PE | 93655022 | 75S6 | 0.99 |
| | 3 | 3 | 30 | 13.5 | 75FH3S6-PE | 93657503 | | |
| | 5 | 5 | 32 | 16.8 | 75FH5S6-PE | 93657505 | | |
| | 7.5 | 7 | 35 | 20.0 | 75FH7S6-PE | 93657507 | | |
| | 10 | 9 | 38 | 23.3 | 75FH10S6-PE | 93657509 | | |
| | 15 | 13 | 43 | 29.8 | 75FH15S6-PE | 93657513 | | |
| | 20 | 17 | 48 | 36.2 | 75FH20S6-PE | 93657517 | | |
| | 25 | 23 | 52 | 46.0 | 75FH25S6-PE | 93657523 | | |
| 100 | 5 | 3 | 30 | 15.1 | 100FH5S6-PE | 93650003 | 100S6 | N/A |
| | 7.5 | 5 | 33 | 19.2 | 100FH7S6-PE | 93650005 | | |
| | 10 | 6 | 34 | 21.3 | 100FH10S6-PE | 93650006 | | |
| | 15 | 10 | 39 | 29.6 | 100FH15S6-PE | 93650010 | | |
| | 20 | 12 | 41 | 33.8 | 100FH20S6-PE | 93650012 | | |
| 125 | 25 | 16 | 47 | 42.1 | 100FH25S6-PE | 93650016 | 125S6 | N/A |
| | 5 | 2 | 29 | 12.9 | 125FH5S6-PE | 93652502 | | |
| | 7.5 | 4 | 31 | 17.1 | 125FH7S6-PE | 93652504 | | |
| | 10 | 5 | 33 | 19.2 | 125FH10S6-PE | 93652505 | | |
| | 15 | 8 | 36 | 25.4 | 125FH15S6-PE | 93652508 | | |
| | 20 | 10 | 39 | 29.6 | 125FH20S6-PE | 93652510 | | |
| | 25 | 13 | 43 | 35.9 | 125FH25S6-PE | 93652513 | | |
| | 30 | 16 | 46 | 42.1 | 125FH30S6-PE | 93652516 | | |
| | 40 | 20 | 51 | 50.4 | 125FH40S6-PE | 93652520 | | |

NOTES: Discharge is 3" NPT. Maximum diameter across cable guard is 5.50" on all models.

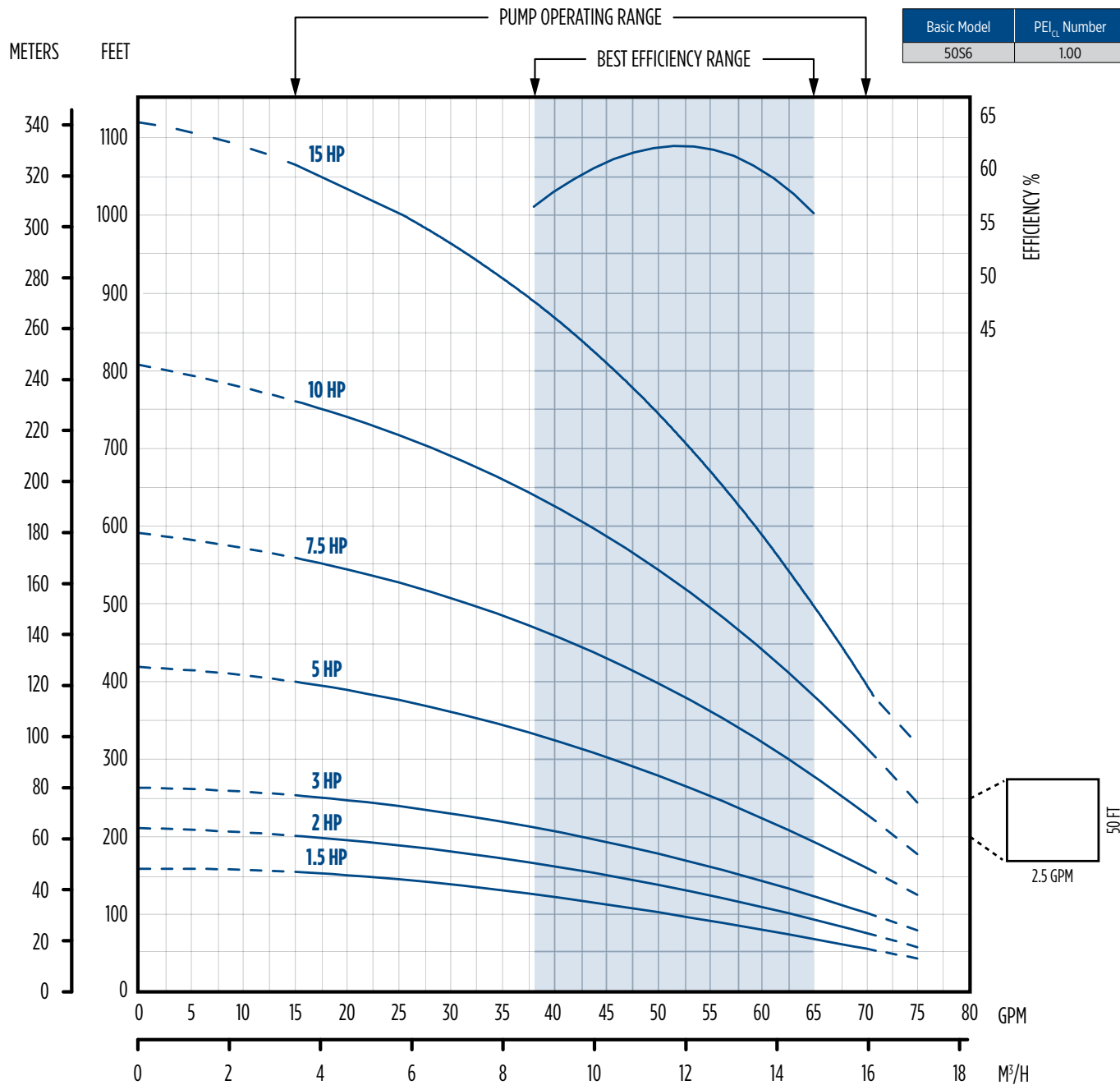
100 and 125 GPM models are outside the scope of the Department of Energy Pump Efficiency Standards. As such, a Pump Energy Index (PEI) is not required or published.

CROSS REFERENCE

| GPM | NEW DOE PEI _{CL} Rated | | Original Shaefer 6" Pump Ends | |
|-----|---------------------------------|-----------|-------------------------------|-----------|
| | Model | Order No. | Model | Order No. |
| 50 | 50FH15S6-PE | 93655003 | 50LD15S6-PE | 94805003 |
| | 50FH2S6-PE | 93655004 | 50LD2S6-PE | 94805004 |
| | 50FH3S6-PE | 93655005 | 50LD3S6-PE | 94805005 |
| | 50FH5S6-PE | 93655008 | 50LD5S6-PE | 94805008 |
| | 50FH7S6-PE | 93655011 | 50LD7S6-PE | 94805011 |
| | 50FH10S6-PE | 93655015 | 50LD10S6-PE | 94805015 |
| | 50FH015S6-PE | 93655022 | - | - |
| 75 | 75FH3S6-PE | 93657503 | 75LD3S6-PE | 94807503 |
| | 75FH5S6-PE | 93657505 | 75LD5S6-PE | 94807505 |
| | 75FH7S6-PE | 93657507 | 75LD7S6-PE | 94807507 |
| | 75FH10S6-PE | 93657509 | 75LD10S6-PE | 94807509 |
| | 75FH15S6-PE | 93657513 | 75LD15S6-PE | 94807513 |
| | 75FH20S6-PE | 93657517 | 75LD20S6-PE | 94807517 |
| | 75FH25S6-PE | 93657523 | 75LD25S6-PE | 94807523 |
| 100 | 100FH5S6-PE | 93650003 | 100LD5S6-PE | 94800003 |
| | 100FH7S6-PE | 93650005 | 100LD7S6-PE | 94800005 |
| | 100FH10S6-PE | 93650006 | 100LD10S6-PE | 94800006 |
| | 100FH15S6-PE | 93650010 | 100LD15S6-PE | 94800009 |
| | 100FH20S6-PE | 93650012 | 100LD20S6-PE | 94800013 |
| 125 | 100FH25S6-PE | 93650016 | 100LD25S6-PE | 94800016 |
| | 125FH5S6-PE | 93652502 | 125LD5S6-PE | 94802502 |
| | 125FH7S6-PE | 93652504 | 125LD7S6-PE | 94802503 |
| | 125FH10S6-PE | 93652505 | 125LD10S6-PE | 94802504 |
| | 125FH15S6-PE | 93652508 | 125LD15S6-PE | 94802507 |
| | 125FH20S6-PE | 93652510 | 125LD20S6-PE | 94802509 |
| | 125FH25S6-PE | 93652513 | 125LD25S6-PE | 94802511 |
| | 125FH30S6-PE | 93652516 | 125LD30S6-PE | 94802513 |
| | 125FH40S6-PE | 93652520 | 125LD40S6-PE | 94802518 |

6" TRI-SEAL HIGH CAPACITY PUMPS - 50 GPM

PERFORMANCE



6" TRI-SEAL HIGH CAPACITY PUMPS - 50 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | Shut-Off (ft) |
| 1.5 | 0 | | | 68 | 61 | 51 | 41 | 30 | | | | | | | | | | | 158 |
| | 20 | 66 | 58 | 47 | 38 | 25 | | | | | | | | | | | | | |
| | 30 | 56 | 46 | 37 | 21 | | | | | | | | | | | | | | |
| | 40 | 44 | 35 | 16 | | | | | | | | | | | | | | | |
| | 50 | 33 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 60 | 51 | 43 | 34 | 25 | 17 | 8 | | | | | | | | | | | |
| 2 | 0 | | | | 69 | 63 | 57 | 49 | 41 | 31 | 16 | | | | | | | | 211 |
| | 20 | | 67 | 62 | 54 | 46 | 38 | 27 | | | | | | | | | | | |
| | 30 | 67 | 60 | 53 | 45 | 37 | 25 | | | | | | | | | | | | |
| | 40 | 59 | 52 | 44 | 35 | 23 | | | | | | | | | | | | | |
| | 50 | 51 | 42 | 34 | 20 | | | | | | | | | | | | | | |
| 60 | 41 | 32 | 17 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 83 | 74 | 65 | 57 | 48 | 39 | 31 | 22 | 13 | 5 | | | | | | | | |
| 3 | 0 | | | | | 70 | 66 | 61 | 55 | 49 | 42 | 17 | | | | | | | 263 |
| | 20 | | | | 69 | 65 | 60 | 53 | 47 | 40 | 33 | 21 | | | | | | | |
| | 30 | | 68 | 64 | 59 | 52 | 46 | 39 | 31 | 18 | | | | | | | | | |
| | 40 | 68 | 63 | 58 | 51 | 45 | 38 | 30 | 15 | | | | | | | | | | |
| | 50 | 63 | 57 | 50 | 44 | 37 | 28 | | | | | | | | | | | | |
| Shut-off PSI | | 105 | 97 | 88 | 79 | 71 | 62 | 53 | 45 | 36 | 27 | 6 | | | | | | | |
| 5 | 0 | | | | | | | | 70 | 67 | 64 | 55 | 45 | 34 | | | | | 418 |
| | 20 | | | | | | 69 | 66 | 63 | 60 | 56 | 46 | 35 | 16 | | | | | |
| | 30 | | | | | 69 | 66 | 63 | 59 | 56 | 51 | 41 | 28 | | | | | | |
| | 40 | | | | 68 | 66 | 62 | 59 | 55 | 51 | 47 | 36 | 18 | | | | | | |
| | 50 | | 70 | 68 | 65 | 62 | 58 | 54 | 50 | 46 | 42 | 29 | | | | | | | |
| 60 | 70 | 67 | 65 | 61 | 58 | 54 | 50 | 45 | 41 | 37 | 20 | | | | | | | | |
| Shut-off PSI | | 173 | 164 | 155 | 147 | 138 | 129 | 121 | 112 | 103 | 95 | 73 | 51 | 30 | | | | | |
| 7.5 | 0 | | | | | | | | | | | 68 | 63 | 57 | 49 | 42 | 32 | 18 | 591 |
| | 20 | | | | | | | | | 70 | 68 | 63 | 57 | 50 | 42 | 33 | 19 | | |
| | 30 | | | | | | | | 70 | 68 | 66 | 60 | 54 | 47 | 38 | 27 | | | |
| | 40 | | | | | | | 70 | 68 | 66 | 64 | 58 | 51 | 43 | 34 | 21 | | | |
| | 50 | | | | | | 69 | 67 | 65 | 63 | 61 | 54 | 47 | 39 | 28 | | | | |
| Shut-off PSI | | 247 | 239 | 230 | 221 | 213 | 204 | 195 | 187 | 178 | 169 | 148 | 126 | 104 | 83 | 61 | 39 | 18 | |

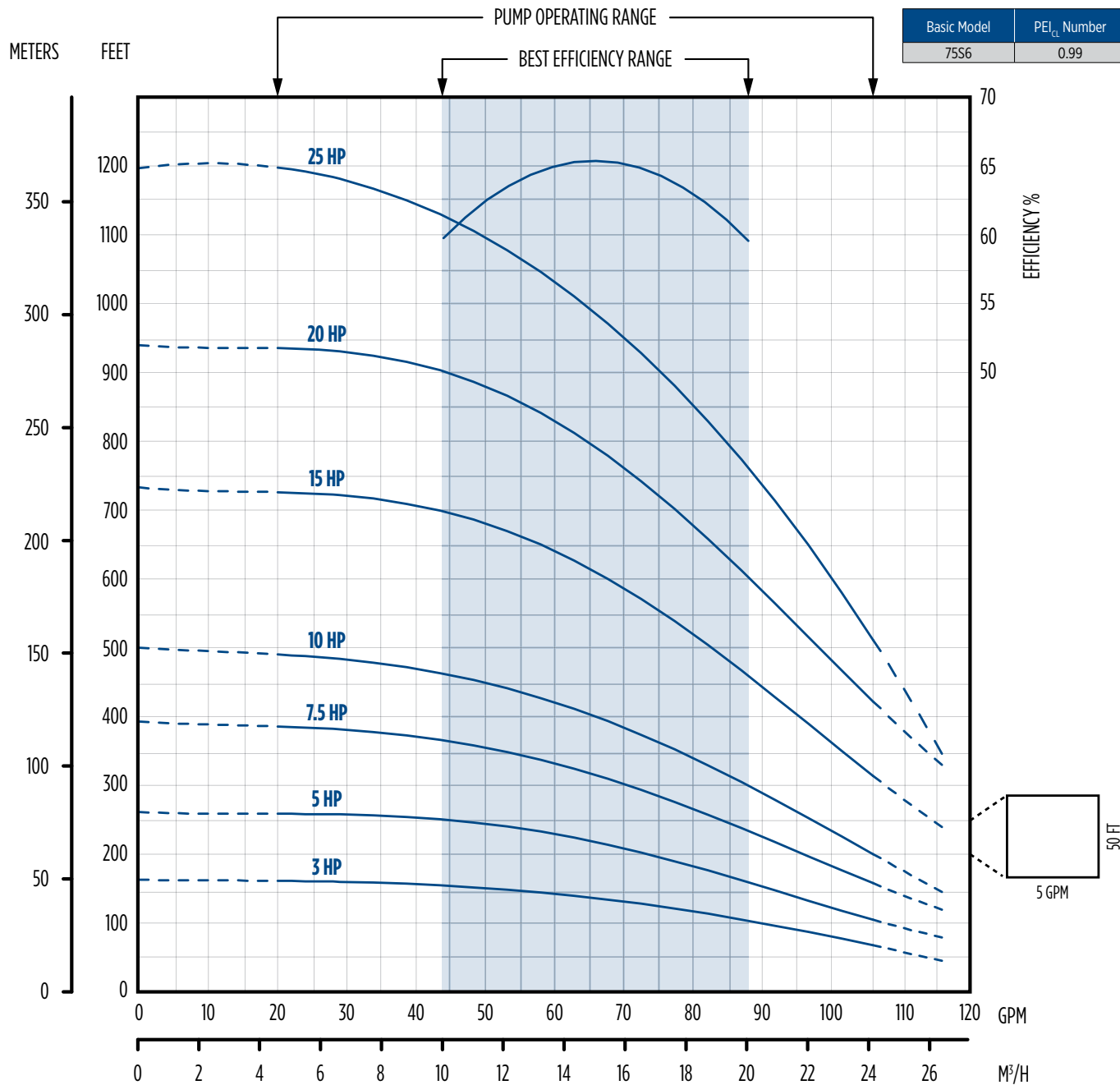
| HP | PSI | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 0 | | | | | | | | | 68 | 64 | 59 | 54 | 49 | 43 | 37 | 28 | 18 | 808 |
| | 20 | | | | | | | | 68 | 64 | 60 | 55 | 50 | 44 | 37 | 29 | 19 | | |
| | 30 | | | | | | | 70 | 66 | 62 | 57 | 52 | 47 | 41 | 34 | 25 | | | |
| | 40 | | | | | | 68 | 64 | 60 | 55 | 50 | 44 | 38 | 30 | 20 | | | | |
| | 50 | | | | | 70 | 66 | 62 | 58 | 53 | 47 | 41 | 34 | 26 | | | | | |
| 60 | | | | | 70 | 68 | 65 | 60 | 56 | 50 | 45 | 38 | 31 | 21 | | | | | |
| Shut-off PSI | | 306 | 298 | 289 | 281 | 272 | 263 | 242 | 220 | 198 | 177 | 155 | 133 | 112 | 90 | 68 | 47 | 25 | |

| HP | PSI | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | Shut-Off (ft) |
|--------------|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 15 | 0 | | | | | | | | 80 | 78 | 76 | 74 | 72 | 70 | 68 | 65 | 62 | 59 | 56 | 53 | 49 | 46 | 1129 |
| | 20 | | | | | | 79 | 78 | 77 | 76 | 74 | 72 | 70 | 68 | 65 | 62 | 59 | 56 | 53 | 50 | 46 | 42 | |
| | 40 | | | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 72 | 70 | 68 | 65 | 63 | 60 | 57 | 53 | 50 | 46 | 43 | 38 | |
| | 60 | 80 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 68 | 66 | 63 | 60 | 57 | 54 | 50 | 47 | 43 | 39 | 34 | |
| | 80 | 77 | 76 | 75 | 75 | 74 | 73 | 72 | 71 | 71 | 68 | 66 | 63 | 60 | 57 | 54 | 50 | 47 | 43 | 39 | 34 | 29 | |
| | 100 | 75 | 74 | 73 | 73 | 72 | 71 | 70 | 69 | 68 | 66 | 63 | 60 | 57 | 54 | 51 | 47 | 43 | 39 | 35 | 29 | 22 | |
| | 120 | 73 | 72 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 64 | 61 | 58 | 54 | 51 | 47 | 44 | 40 | 35 | 30 | 23 | 14 | |
| | 140 | 71 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 61 | 58 | 55 | 51 | 48 | 44 | 40 | 36 | 30 | 23 | 14 | 3 | |
| 160 | 67 | 66 | 65 | 64 | 62 | 62 | 61 | 59 | 58 | 55 | 52 | 48 | 45 | 41 | 36 | 31 | 24 | 16 | 5 | | | | |
| Shut-off PSI | | | | | | | | | 411 | 402 | 380 | 359 | 337 | 315 | 294 | 272 | 250 | 229 | 207 | 186 | 164 | 142 | |

NOTES: Discharge 3" NPT; Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

6" TRI-SEAL HIGH CAPACITY PUMPS - 75 GPM

PERFORMANCE



6" TRI-SEAL HIGH CAPACITY PUMPS - 75 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | |
| 3 | 0 | | | 108 | 101 | 89 | 77 | 64 | 26 | | | | | | | | | | 162 |
| | 20 | 106 | 98 | 85 | 73 | 57 | | | | | | | | | | | | | |
| | 30 | 96 | 83 | 72 | 53 | | | | | | | | | | | | | | |
| | 40 | 81 | 70 | 47 | | | | | | | | | | | | | | | |
| | 50 | 68 | 40 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 61 | 53 | 44 | 35 | 27 | 18 | 9 | 1 | | | | | | | | | | |
| 5 | 0 | | | | 116 | 106 | 102 | 96 | 88 | 79 | 73 | 41 | | | | | | | 259 |
| | 20 | | 112 | 105 | 100 | 93 | 85 | 77 | 71 | 64 | 47 | | | | | | | | |
| | 30 | 110 | 104 | 99 | 92 | 84 | 76 | 70 | 63 | 43 | | | | | | | | | |
| | 40 | 103 | 98 | 91 | 82 | 75 | 69 | 61 | 37 | | | | | | | | | | |
| | 50 | 97 | 89 | 81 | 74 | 68 | 58 | 31 | | | | | | | | | | | |
| Shut-off PSI | | 103 | 95 | 86 | 77 | 69 | 60 | 51 | 43 | 34 | 25 | 4 | | | | | | | |
| 7.5 | 0 | | | | | | 116 | 109 | 105 | 101 | 97 | 83 | 70 | 54 | | | | | 387 |
| | 20 | | | | 114 | 108 | 104 | 100 | 96 | 90 | 85 | 71 | 56 | | | | | | |
| | 30 | | | 112 | 107 | 103 | 99 | 95 | 89 | 84 | 78 | 65 | 40 | | | | | | |
| | 40 | | 111 | 106 | 103 | 99 | 94 | 88 | 83 | 77 | 72 | 57 | | | | | | | |
| | 50 | 111 | 106 | 102 | 98 | 93 | 88 | 82 | 76 | 71 | 66 | 43 | | | | | | | |
| Shut-off PSI | | 159 | 150 | 142 | 133 | 124 | 116 | 107 | 98 | 90 | 81 | 59 | 38 | 16 | | | | | |
| 10 | 0 | | | | | | | | | 112 | 109 | 106 | 98 | 88 | 77 | 66 | 50 | | 493 |
| | 20 | | | | | 116 | 111 | 108 | 105 | 102 | 99 | 89 | 78 | 67 | 52 | | | | |
| | 30 | | | | 115 | 111 | 107 | 104 | 101 | 98 | 94 | 84 | 73 | 61 | 39 | | | | |
| | 40 | | | 114 | 110 | 107 | 104 | 101 | 98 | 94 | 89 | 78 | 68 | 54 | 18 | | | | |
| | 50 | | 114 | 109 | 106 | 104 | 100 | 97 | 93 | 89 | 84 | 74 | 63 | 42 | | | | | |
| Shut-off PSI | | 205 | 196 | 187 | 179 | 170 | 161 | 153 | 144 | 135 | 127 | 105 | 84 | 62 | 40 | 19 | | | |

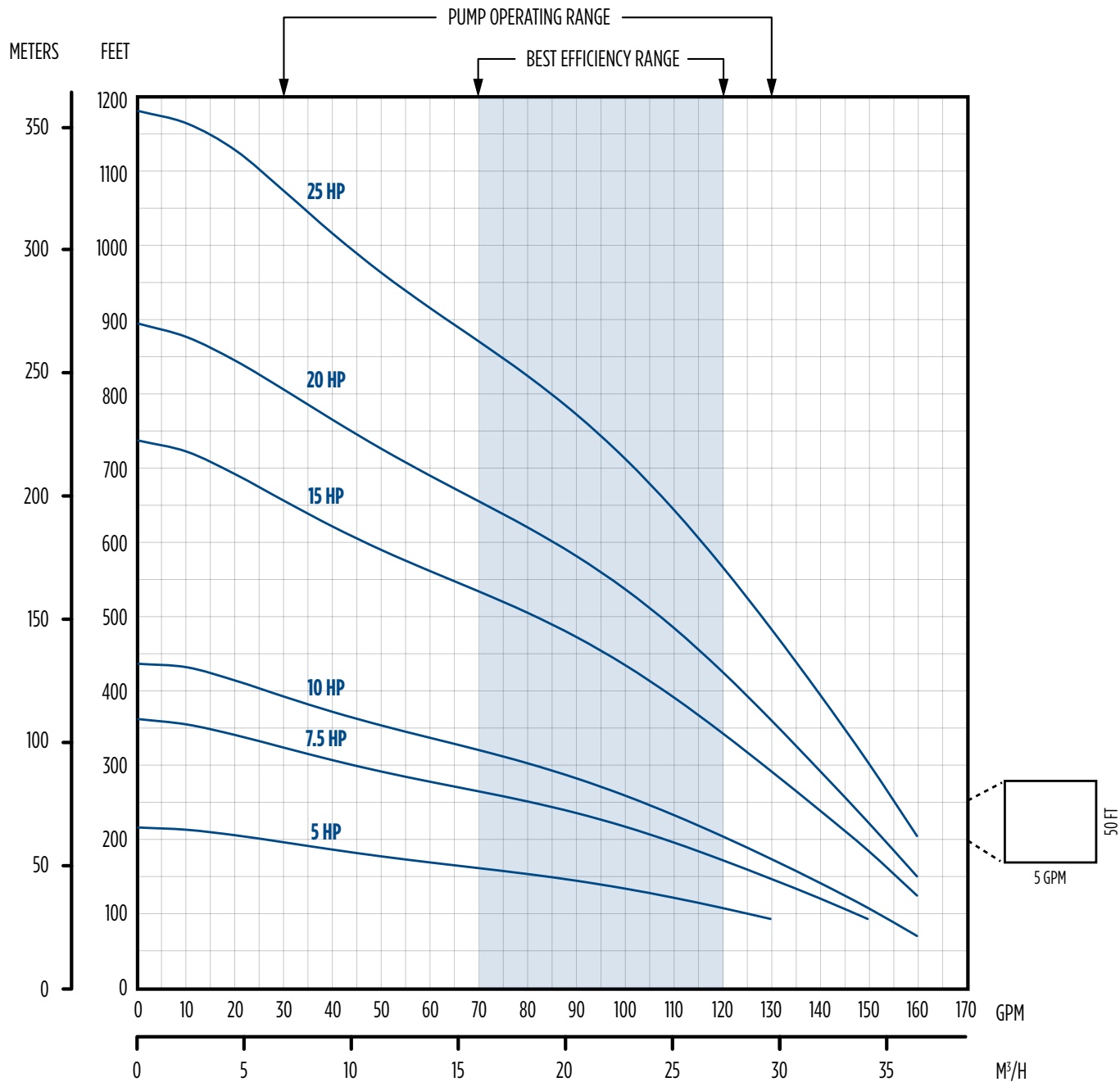
| HP | PSI | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 15 | 0 | | | | | | 114 | 107 | 102 | 97 | 89 | 81 | 74 | 68 | 60 | 41 | | | | | | 727 |
| | 20 | | | | | 115 | 107 | 103 | 97 | 90 | 82 | 75 | 69 | 61 | 43 | | | | | | | |
| | 30 | | | | 114 | 110 | 105 | 100 | 94 | 86 | 78 | 72 | 66 | 55 | 28 | | | | | | | |
| | 40 | | | 113 | 110 | 107 | 103 | 98 | 90 | 82 | 75 | 69 | 62 | 45 | | | | | | | | |
| | 50 | | 113 | 109 | 107 | 105 | 101 | 95 | 87 | 79 | 73 | 66 | 56 | 31 | | | | | | | | |
| | 60 | 112 | 109 | 107 | 105 | 103 | 98 | 91 | 83 | 76 | 70 | 63 | 47 | | | | | | | | | |
| Shut-off PSI | | 263 | 254 | 245 | 237 | 228 | 206 | 185 | 163 | 142 | 120 | 98 | 77 | 55 | 33 | 12 | | | | | | |
| 20 | 0 | | | | | | | | 113 | 107 | 103 | 100 | 94 | 88 | 82 | 76 | 71 | 66 | 58 | 43 | | 936 |
| | 20 | | | | | | | | 113 | 107 | 104 | 100 | 95 | 89 | 82 | 76 | 72 | 67 | 59 | 44 | | |
| | 30 | | | | | | | 110 | 106 | 102 | 98 | 92 | 86 | 79 | 74 | 69 | 64 | 54 | 33 | | | |
| | 40 | | | | | | 114 | 108 | 104 | 100 | 95 | 89 | 83 | 77 | 72 | 67 | 60 | 46 | | | | |
| | 50 | | | | | | 110 | 106 | 102 | 98 | 93 | 86 | 80 | 74 | 70 | 64 | 55 | 35 | | | | |
| | 60 | | | | | | 115 | 108 | 104 | 101 | 96 | 90 | 83 | 77 | 72 | 67 | 61 | 47 | | | | |
| Shut-off PSI | | 353 | 345 | 336 | 327 | 319 | 297 | 275 | 254 | 232 | 210 | 189 | 167 | 145 | 124 | 102 | 80 | 59 | 37 | 15 | | |

| HP | PSI | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 25 | 0 | | | 116 | 112 | 109 | 107 | 104 | 101 | 97 | 93 | 89 | 84 | 79 | 75 | 70 | 65 | 59 | 50 | 38 | 19 | 1202 |
| | 20 | | 116 | 112 | 109 | 107 | 104 | 101 | 98 | 93 | 89 | 84 | 80 | 75 | 70 | 65 | 59 | 51 | 39 | 21 | | |
| | 30 | | 114 | 111 | 108 | 106 | 103 | 100 | 96 | 91 | 87 | 82 | 78 | 73 | 68 | 63 | 56 | 46 | 31 | | | |
| | 40 | | 112 | 109 | 107 | 104 | 101 | 98 | 94 | 89 | 85 | 80 | 75 | 71 | 66 | 60 | 51 | 40 | 23 | | | |
| | 50 | 114 | 111 | 108 | 106 | 103 | 100 | 96 | 92 | 87 | 83 | 78 | 73 | 69 | 63 | 56 | 47 | 33 | | | | |
| | 60 | 113 | 110 | 107 | 105 | 102 | 98 | 94 | 90 | 85 | 80 | 76 | 71 | 66 | 60 | 52 | 41 | 24 | | | | |
| Shut-off PSI | | 412 | 391 | 369 | 347 | 326 | 304 | 283 | 261 | 239 | 218 | 196 | 174 | 153 | 131 | 109 | 88 | 66 | 44 | 23 | 1 | |

NOTES: Discharge 3" NPT; Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

6" TRI-SEAL HIGH CAPACITY PUMPS - 100 GPM

PERFORMANCE



6" TRI-SEAL HIGH CAPACITY PUMPS - 100 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | |
| 5 | 0 | | | | | | 125 | 110 | 92 | 72 | 48 | | | | | | | 216 |
| | 10 | | | | | 123 | 107 | 89 | 68 | 44 | | | | | | | | |
| | 20 | | | | 120 | 105 | 86 | 64 | 40 | | | | | | | | | |
| | 30 | | 132 | 118 | 102 | 83 | 61 | 36 | | | | | | | | | | |
| | 40 | 130 | 116 | 99 | 80 | 57 | 32 | | | | | | | | | | | |
| | 50 | 113 | 96 | 76 | 53 | | | | | | | | | | | | | |
| | 60 | 93 | 73 | 50 | | | | | | | | | | | | | | |
| | 70 | 70 | 46 | | | | | | | | | | | | | | | |
| | 80 | 42 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 94 | 85 | 76 | 68 | 59 | 50 | 42 | 33 | 24 | 16 | | | | | | | |
| 7.5 | 0 | | | | | | | | | | 117 | 107 | 85 | 59 | 30 | | | 360 |
| | 10 | | | | | | | | | 115 | 106 | 95 | 71 | 42 | | | | |
| | 20 | | | | | | | 123 | 114 | 104 | 93 | 82 | 55 | | | | | |
| | 30 | | | | | | 121 | 112 | 102 | 92 | 80 | 66 | 38 | | | | | |
| | 40 | | | | 120 | 111 | 101 | 90 | 78 | 64 | 50 | | | | | | | |
| | 50 | | | | 119 | 109 | 99 | 88 | 76 | 62 | 48 | 33 | | | | | | |
| | 60 | | | 117 | 108 | 98 | 86 | 74 | 60 | 46 | 31 | | | | | | | |
| | 70 | | 116 | 106 | 96 | 84 | 72 | 58 | 43 | | | | | | | | | |
| | 80 | 114 | 105 | 94 | 82 | 69 | 56 | 41 | | | | | | | | | | |
| Shut-off PSI | | 156 | 147 | 139 | 130 | 121 | 113 | 104 | 95 | 87 | 78 | 69 | 52 | 35 | 17 | | | |
| 10 | 0 | | | | | | | | | | 128 | 121 | 106 | 89 | 69 | 47 | | 433 |
| | 10 | | | | | | | | | 127 | 120 | 113 | 96 | 78 | 56 | 33 | | |
| | 20 | | | | | | | | 126 | 119 | 111 | 103 | 86 | 66 | 43 | | | |
| | 30 | | | | | | 131 | 125 | 118 | 110 | 102 | 94 | 74 | 53 | | | | |
| | 40 | | | | 130 | 124 | 117 | 109 | 101 | 92 | 83 | 62 | 39 | | | | | |
| | 50 | | | | 129 | 123 | 115 | 108 | 100 | 91 | 81 | 71 | 49 | | | | | |
| | 60 | | | 128 | 121 | 114 | 106 | 98 | 89 | 80 | 70 | 59 | 36 | | | | | |
| | 70 | | 127 | 120 | 113 | 105 | 97 | 88 | 78 | 68 | 57 | 46 | | | | | | |
| | 80 | 126 | 119 | 112 | 104 | 95 | 86 | 77 | 66 | 55 | 44 | 32 | | | | | | |
| Shut-off PSI | | 187 | 179 | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 110 | 101 | 84 | 66 | 49 | 32 | | |

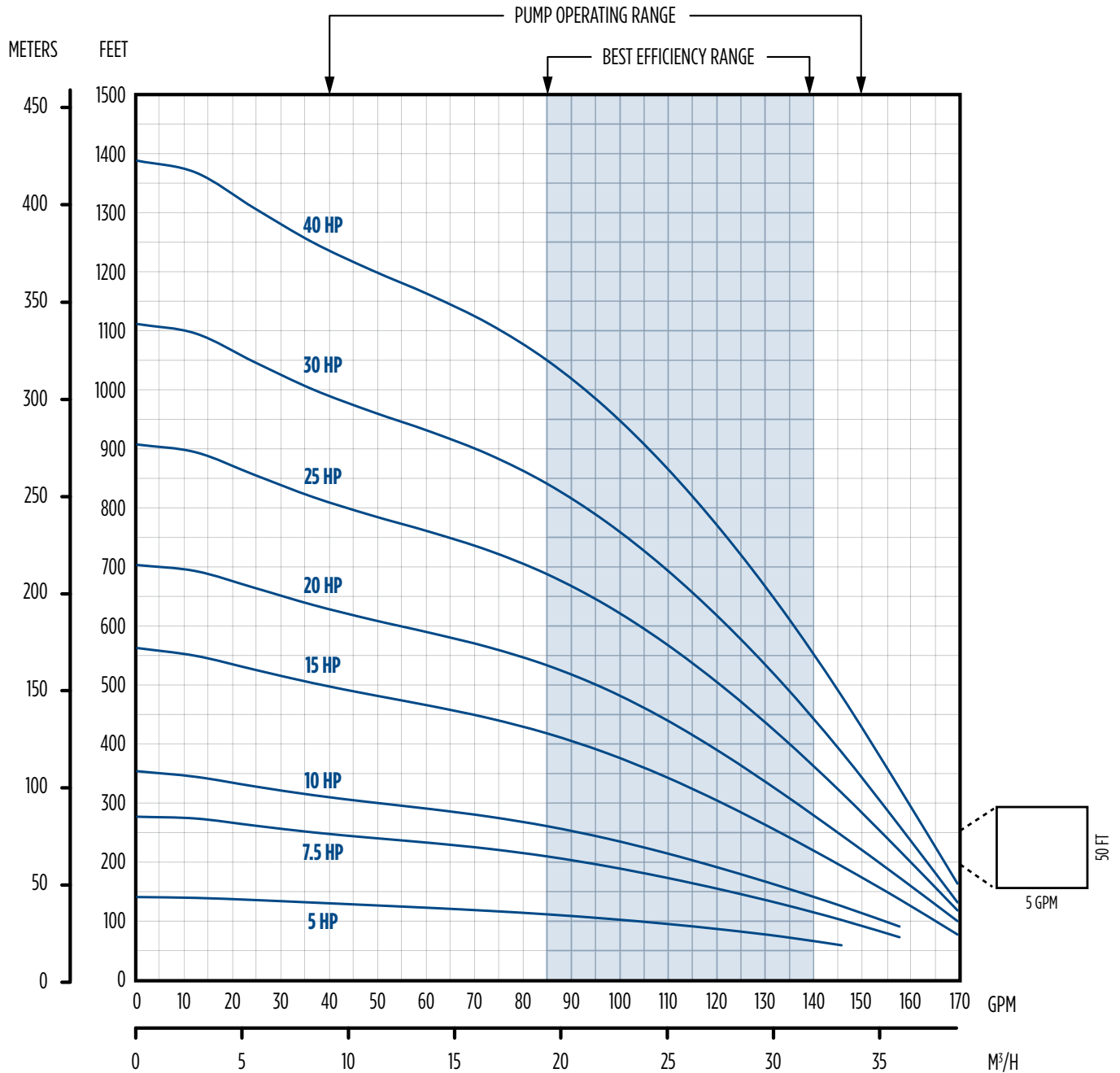
| HP | PSI | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 15 | 0 | | | | | | | | | 124 | 116 | 106 | 96 | 85 | 79 | 64 | 47 | 29 | 730 |
| | 10 | | | | | | | | 128 | 120 | 110 | 101 | 90 | 78 | 72 | 56 | 39 | | |
| | 20 | | | | | | | 131 | 123 | 114 | 105 | 95 | 83 | 71 | 65 | 48 | 31 | | |
| | 30 | | | | | | | 127 | 118 | 109 | 99 | 88 | 76 | 64 | 57 | 40 | | | |
| | 40 | | | | | | 130 | 122 | 113 | 103 | 93 | 82 | 69 | 56 | 49 | 32 | | | |
| | 50 | | | | | 129 | 125 | 117 | 107 | 97 | 86 | 75 | 62 | 48 | 41 | | | | |
| | 60 | | | | 129 | 125 | 121 | 112 | 102 | 91 | 80 | 67 | 54 | 40 | 33 | | | | |
| | 70 | | 132 | 128 | 124 | 120 | 115 | 106 | 96 | 85 | 73 | 60 | 46 | 32 | | | | | |
| | 80 | 132 | 128 | 123 | 119 | 115 | 110 | 100 | 89 | 78 | 65 | 52 | 38 | | | | | | |
| Shut-off PSI | | 273 | 264 | 255 | 247 | 238 | 229 | 212 | 195 | 177 | 160 | 143 | 126 | 108 | 100 | 78 | 56 | 35 | |

| HP | PSI | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| 20 | 0 | | | | | | | 130 | 123 | 117 | 109 | 105 | 95 | 83 | 71 | 57 | 43 | | 886 |
| | 10 | | | | | | 133 | 126 | 120 | 112 | 105 | 100 | 90 | 78 | 65 | 51 | 36 | | |
| | 20 | | | | | | 129 | 122 | 115 | 108 | 100 | 96 | 84 | 72 | 58 | 44 | 29 | | |
| | 30 | | | | | 132 | 125 | 118 | 111 | 103 | 95 | 90 | 79 | 66 | 52 | 37 | | | |
| | 40 | | | | | 128 | 121 | 114 | 107 | 98 | 90 | 85 | 73 | 59 | 45 | 30 | | | |
| | 50 | | | | 131 | 124 | 117 | 110 | 102 | 93 | 84 | 80 | 67 | 53 | 38 | | | | |
| | 60 | | | | 127 | 120 | 113 | 105 | 97 | 88 | 79 | 74 | 61 | 46 | 32 | | | | |
| | 70 | | | 130 | 123 | 116 | 109 | 101 | 92 | 83 | 73 | 68 | 54 | 40 | | | | | |
| | 80 | 132 | 129 | 126 | 119 | 112 | 104 | 96 | 87 | 77 | 67 | 62 | 47 | 33 | | | | | |
| Shut-off PSI | | 314 | 306 | 297 | 280 | 262 | 245 | 228 | 210 | 193 | 176 | 167 | 145 | 124 | 102 | 81 | 59 | | |

| HP | PSI | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------|
| 25 | 0 | | | | | 130 | 128 | 121 | 115 | 107 | 100 | 92 | 83 | 74 | 64 | 53 | 42 | 31 | 1170 |
| | 10 | | | | 132 | 127 | 125 | 118 | 111 | 104 | 96 | 88 | 79 | 69 | 59 | 48 | 37 | 26 | |
| | 20 | | | | 129 | 124 | 122 | 115 | 108 | 100 | 92 | 84 | 74 | 65 | 54 | 43 | 32 | 21 | |
| | 30 | | | 131 | 127 | 121 | 119 | 112 | 104 | 97 | 88 | 79 | 70 | 60 | 49 | 38 | | | |
| | 40 | | | 129 | 124 | 118 | 116 | 108 | 101 | 93 | 84 | 75 | 65 | 55 | 44 | 33 | | | |
| | 50 | | 131 | 126 | 121 | 115 | 112 | 105 | 97 | 89 | 80 | 71 | 61 | 50 | 39 | | | | |
| | 60 | 133 | 128 | 123 | 117 | 112 | 109 | 102 | 93 | 85 | 76 | 66 | 56 | 45 | 34 | | | | |
| | 70 | 130 | 125 | 120 | 114 | 109 | 106 | 98 | 90 | 81 | 71 | 61 | 51 | 40 | | | | | |
| | 80 | 127 | 122 | 117 | 111 | 105 | 102 | 94 | 86 | 77 | 67 | 57 | 46 | 35 | | | | | |
| Shut-off PSI | | 368 | 351 | 333 | 316 | 299 | 290 | 268 | 247 | 225 | 203 | 182 | 160 | 139 | 117 | 95 | 74 | 52 | |

6" TRI-SEAL HIGH CAPACITY PUMPS - 125 GPM

PERFORMANCE



6" TRI-SEAL HIGH CAPACITY PUMPS - 125 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | |
| 5 | 0 | | | | 145 | 125 | 99 | 60 | | | | | | | | | | | | | 138 |
| | 10 | | | | 135 | 122 | 94 | 51 | | | | | | | | | | | | | |
| | 20 | | | 139 | 118 | 89 | 42 | | | | | | | | | | | | | | |
| | 30 | 136 | 114 | 83 | | | | | | | | | | | | | | | | | |
| | 40 | 110 | 77 | | | | | | | | | | | | | | | | | | |
| | 50 | 71 | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 60 | 51 | 42 | 34 | 25 | 16 | 8 | | | | | | | | | | | | | |
| 7.5 | 0 | | | | | | 149 | 140 | 130 | 119 | 106 | 90 | 49 | | | | | | | | 273 |
| | 10 | | | | | 148 | 139 | 128 | 117 | 103 | 88 | 69 | | | | | | | | | |
| | 20 | | | | 146 | 137 | 127 | 115 | 101 | 85 | 65 | 41 | | | | | | | | | |
| | 30 | | | 145 | 136 | 125 | 113 | 99 | 82 | 62 | | | | | | | | | | | |
| | 40 | | 144 | 134 | 123 | 111 | 97 | 79 | 58 | | | | | | | | | | | | |
| | 50 | 142 | 132 | 121 | 109 | 94 | 76 | 55 | | | | | | | | | | | | | |
| | 60 | 131 | 120 | 107 | 92 | 73 | 51 | | | | | | | | | | | | | | |
| | 70 | 118 | 104 | 89 | 70 | 47 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 118 | 110 | 101 | 92 | 84 | 75 | 66 | 58 | 49 | 40 | 32 | 14 | | | | | | | | |
| 10 | 0 | | | | | | | 150 | 143 | 135 | 127 | 118 | 96 | 67 | | | | | | | 351 |
| | 10 | | | | | | 149 | 142 | 134 | 126 | 116 | 106 | 80 | 47 | | | | | | | |
| | 20 | | | | | 148 | 141 | 133 | 124 | 115 | 104 | 92 | 62 | | | | | | | | |
| | 30 | | | | 147 | 140 | 132 | 123 | 113 | 102 | 90 | 76 | 41 | | | | | | | | |
| | 40 | | | 146 | 138 | 130 | 121 | 112 | 100 | 88 | 73 | 56 | | | | | | | | | |
| | 50 | | 145 | 137 | 129 | 120 | 110 | 99 | 86 | 71 | 54 | | | | | | | | | | |
| | 60 | 144 | 136 | 128 | 118 | 108 | 97 | 83 | 68 | 51 | | | | | | | | | | | |
| | 70 | 135 | 126 | 117 | 107 | 95 | 81 | 66 | 48 | | | | | | | | | | | | |
| Shut-off PSI | | 152 | 143 | 135 | 126 | 117 | 109 | 100 | 91 | 83 | 74 | 65 | 48 | 31 | | | | | | | |
| 15 | 0 | | | | | | | | | | | 149 | 139 | 129 | 118 | 105 | 90 | 73 | 52 | 40 | 559 |
| | 10 | | | | | | | | | | 148 | 143 | 134 | 123 | 111 | 97 | 81 | 62 | | | |
| | 20 | | | | | | | | 152 | 147 | 143 | 138 | 127 | 116 | 103 | 88 | 70 | 49 | | | |
| | 30 | | | | | | | 151 | 146 | 142 | 137 | 132 | 121 | 109 | 95 | 78 | 58 | | | | |
| | 40 | | | | | 150 | 146 | 141 | 136 | 131 | 126 | 114 | 101 | 85 | 67 | 45 | | | | | |
| | 50 | | | | 150 | 145 | 140 | 135 | 130 | 125 | 119 | 107 | 92 | 75 | 55 | | | | | | |
| | 60 | | | | 149 | 144 | 140 | 135 | 130 | 124 | 118 | 112 | 99 | 83 | 64 | 41 | | | | | |
| | 70 | | | 148 | 144 | 139 | 134 | 129 | 123 | 117 | 111 | 105 | 90 | 72 | 51 | | | | | | |
| Shut-off PSI | | 242 | 233 | 225 | 216 | 207 | 199 | 190 | 181 | 173 | 164 | 155 | 138 | 121 | 103 | 86 | 69 | 52 | 34 | 26 | |
| 20 | 0 | | | | | | | | | | 145 | 137 | 129 | 121 | 111 | 100 | 94 | 78 | 58 | | 700 |
| | 10 | | | | | | | | | 148 | 141 | 133 | 124 | 115 | 105 | 93 | 87 | 69 | 46 | | |
| | 20 | | | | | | | | 151 | 144 | 136 | 128 | 119 | 109 | 98 | 86 | 79 | 59 | | | |
| | 30 | | | | | | | 150 | 147 | 140 | 132 | 123 | 114 | 103 | 91 | 78 | 70 | 48 | | | |
| | 40 | | | | | | 150 | 146 | 143 | 135 | 127 | 118 | 108 | 97 | 84 | 69 | 61 | | | | |
| | 50 | | | | | 149 | 146 | 142 | 138 | 130 | 122 | 112 | 102 | 90 | 76 | 60 | 50 | | | | |
| | 60 | | | | 149 | 145 | 142 | 138 | 134 | 125 | 116 | 106 | 95 | 82 | 67 | 49 | | | | | |
| | 70 | | 152 | 148 | 145 | 141 | 137 | 133 | 129 | 120 | 111 | 100 | 88 | 73 | 57 | | | | | | |
| Shut-off PSI | | 277 | 268 | 260 | 251 | 242 | 234 | 225 | 216 | 199 | 182 | 165 | 147 | 130 | 113 | 95 | 87 | 65 | 43 | | |

6" TRI-SEAL HIGH CAPACITY PUMPS - 125 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | | |
| 25 | 0 | | | | | | | | 150 | 145 | 139 | 134 | 127 | 124 | 115 | 105 | 94 | 81 | 66 | 48 | 27 | 4 | 906 | |
| | 10 | | | | | | | | 147 | 142 | 136 | 130 | 123 | 120 | 110 | 100 | 88 | 74 | 58 | 39 | 16 | 0 | | |
| | 20 | | | | | | | 149 | 144 | 139 | 133 | 126 | 119 | 116 | 106 | 95 | 82 | 67 | 49 | 29 | 6 | 0 | | |
| | 30 | | | | | | | 146 | 141 | 135 | 129 | 122 | 115 | 111 | 101 | 89 | 75 | 59 | 40 | 18 | 0 | | | |
| | 40 | | | | | | 149 | 143 | 138 | 132 | 125 | 118 | 111 | 107 | 96 | 83 | 68 | 51 | 30 | 7 | 0 | | | |
| | 50 | | | | | 151 | 146 | 140 | 134 | 128 | 121 | 114 | 106 | 102 | 90 | 77 | 61 | 42 | 20 | 0 | | | | |
| | 60 | | | | 150 | 148 | 142 | 137 | 131 | 124 | 117 | 109 | 101 | 96 | 84 | 70 | 52 | 32 | 9 | 0 | | | | |
| | 70 | | 153 | 150 | 147 | 145 | 139 | 133 | 127 | 120 | 113 | 105 | 96 | 91 | 78 | 62 | 43 | 22 | 0 | | | | | |
| 80 | 152 | 150 | 147 | 144 | 142 | 136 | 130 | 123 | 116 | 108 | 100 | 90 | 85 | 71 | 54 | 34 | 11 | 0 | | | | | | |
| Shut-off PSI | | 340 | 332 | 323 | 314 | 306 | 288 | 271 | 254 | 236 | 219 | 202 | 184 | 176 | 154 | 132 | 111 | 89 | 68 | 46 | 24 | 3 | | |

| HP | PSI | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------|
| 30 | 0 | | | | | | 149 | 145 | 141 | 138 | 132 | 126 | 119 | 111 | 103 | 93 | 83 | 71 | 57 | 41 | | 1112 |
| | 10 | | | | | | 147 | 143 | 138 | 136 | 129 | 123 | 115 | 107 | 99 | 89 | 78 | 65 | 50 | 33 | | |
| | 20 | | | | | 149 | 144 | 140 | 135 | 133 | 126 | 119 | 112 | 103 | 94 | 84 | 72 | 58 | 43 | | | |
| | 30 | | | | 150 | 146 | 142 | 137 | 132 | 130 | 123 | 116 | 108 | 99 | 90 | 78 | 66 | 51 | | | | |
| | 40 | | | 152 | 148 | 144 | 139 | 134 | 129 | 127 | 120 | 112 | 104 | 95 | 85 | 73 | 59 | 44 | | | | |
| | 50 | | | 150 | 146 | 141 | 136 | 132 | 126 | 124 | 116 | 109 | 100 | 90 | 79 | 67 | 52 | | | | | |
| | 60 | | 151 | 147 | 143 | 138 | 134 | 129 | 123 | 120 | 113 | 105 | 96 | 85 | 74 | 60 | 45 | | | | | |
| | 70 | | 149 | 145 | 140 | 136 | 131 | 126 | 120 | 117 | 109 | 101 | 91 | 80 | 68 | 54 | | | | | | |
| Shut-off PSI | | 395 | 377 | 360 | 343 | 326 | 308 | 291 | 274 | 265 | 243 | 222 | 200 | 178 | 157 | 135 | 113 | 92 | 70 | 48 | | |

| HP | PSI | 280 | 320 | 360 | 400 | 440 | 480 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | Shut-Off (ft) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|---------------|
| 40 | 0 | | | | | | 151 | 149 | 145 | 141 | 136 | 131 | 126 | 120 | 114 | 108 | 101 | 93 | 85 | 76 | 66 | 54 | 41 | 1390 |
| | 10 | | | | | | 149 | 147 | 143 | 138 | 134 | 129 | 123 | 118 | 111 | 105 | 98 | 90 | 81 | 71 | 61 | 48 | | |
| | 20 | | | | | 150 | 147 | 145 | 141 | 136 | 131 | 126 | 121 | 115 | 108 | 102 | 94 | 86 | 77 | 66 | 55 | 42 | | |
| | 30 | | | | | 149 | 145 | 143 | 139 | 134 | 129 | 124 | 118 | 112 | 105 | 98 | 90 | 82 | 72 | 61 | 49 | | | |
| | 40 | | | | 150 | 147 | 143 | 141 | 137 | 132 | 127 | 121 | 115 | 109 | 102 | 95 | 86 | 77 | 67 | 56 | 43 | | | |
| | 50 | | | 151 | 148 | 145 | 141 | 139 | 134 | 129 | 124 | 118 | 112 | 106 | 99 | 91 | 82 | 73 | 62 | 50 | | | | |
| | 60 | | | 149 | 146 | 143 | 139 | 137 | 132 | 127 | 122 | 116 | 109 | 103 | 95 | 87 | 78 | 68 | 57 | 44 | | | | |
| | 70 | | 151 | 147 | 144 | 140 | 137 | 135 | 130 | 125 | 119 | 113 | 106 | 99 | 92 | 83 | 74 | 63 | 51 | | | | | |
| Shut-off PSI | | 481 | 463 | 446 | 429 | 411 | 394 | 385 | 364 | 342 | 320 | 299 | 277 | 255 | 234 | 212 | 190 | 169 | 147 | 126 | 104 | 82 | 61 | |

NOTES: Discharge 3" NPT; Performance shown does not include friction loss in the drop pipe; All performance data is based on rated motor nameplate voltage

E SERIES EFFLUENT PUMPS

FEATURES

- Ideal for effluent pumping applications
- Stainless steel or thermoplastic discharge and motor bracket are tough and non-corrosive. Both materials are highly resistant to damage by minerals, metals, and other substances typically found in water
- Heavy-duty, 300 V, 10' SJ00W motor leads
- Designed to provide years of reliable service:
 - 10 and 20 gpm units are equipped with a highly-engineered shaft bearing with built in dry-run protection
 - High-flow 35 to 90 gpm units are built with a proven and durable ceramic sleeve bearing
- Water flow path through the discharge of the pump is designed to pass particulate to allow for efficient and continuous operation
- Proven hydraulic staging allows close tolerances and increased performance
- Carbon phenolic upthrust washer prevents excessive wear in severe applications
- Removable built-in check valve on 10-20 gpm pumps. No built-in check valves on high capacity pumps
- Powered by a Franklin Electric submersible motor

APPLICATIONS

- Filtered effluent service
- Aeration
- Ornamental fountains/waterfalls



E SERIES EFFLUENT PUMPS - ORDERING INFORMATION

THERMOPLASTIC ORDERING INFORMATION

| 1/2 - 1.5 HP Single-Phase Units | | | | | |
|---------------------------------|-----|------|------|----------------|-----------|
| GPM | HP | Volt | Wire | Model | Order No. |
| 10 | 1/2 | 115 | 2 | 10LE05P4-2W115 | 94701005 |
| | 1/2 | 230 | 2 | 10LE05P4-2W230 | 94701010 |
| | 3/4 | 230 | 2 | 10LE07P4-2W230 | 94701015 |
| | 1 | 230 | 2 | 10LE1P4-2W230 | 94701020 |
| | 1.5 | 230 | 2 | 10LE15P4-2W230 | 94701025 |
| 20 | 1/2 | 115 | 2 | 20LE05P4-2W115 | 94702005 |
| | 1/2 | 230 | 2 | 20LE05P4-2W230 | 94702010 |
| | 3/4 | 230 | 2 | 20LE07P4-2W230 | 94702015 |
| | 1 | 230 | 2 | 20LE1P4-2W230 | 94702020 |
| | 1.5 | 230 | 2 | 20LE15P4-2W230 | 94702025 |

THERMOPLASTIC PUMP ENDS

| 1/2 - 2 HP Pump Ends | | | | |
|----------------------|-----|--------|-------------|-----------|
| GPM | HP | Stages | Model | Order No. |
| 10 | 1/2 | 6 | 10LE05P4-PE | 94711005 |
| | 3/4 | 8 | 10LE07P4-PE | 94711010 |
| | 1 | 11 | 10LE1P4-PE | 94711015 |
| | 1.5 | 15 | 10LE15P4-PE | 94711020 |
| 20 | 1/2 | 4 | 20LE05P4-PE | 94712005 |
| | 3/4 | 5 | 20LE07P4-PE | 94712010 |
| | 1 | 7 | 20LE1P4-PE | 94712015 |
| | 1.5 | 10 | 20LE15P4-PE | 94712020 |
| | 2 | 12 | 20LE2P4-PE | 94712025 |

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

STAINLESS STEEL ORDERING INFORMATION

| 1/2 - 1.5 HP Single-Phase Units (2-Wire) | | | | | |
|--|-----|--------|-------|----------------|-----------|
| GPM | HP | Stages | Volts | Model | Order No. |
| 35 | 1/2 | 2 | 115 | 35HE05S4-2W115 | 93933505 |
| | 1/2 | 2 | 230 | 35HE05S4-2W230 | 93933510 |
| | 3/4 | 3 | 230 | 35HE07S4-2W230 | 93933515 |
| | 1 | 5 | 230 | 35HE1S4-2W230 | 93933520 |
| | 1.5 | 7 | 230 | 35HE15S4-2W230 | 93933525 |
| 45 | 1/2 | 2 | 115 | 45HE05S4-2W115 | 93934505 |
| | 1/2 | 2 | 230 | 45HE05S4-2W230 | 93934510 |
| | 3/4 | 3 | 230 | 45HE07S4-2W230 | 93934515 |
| | 1 | 4 | 230 | 45HE1S4-2W230 | 93934520 |
| | 1.5 | 5 | 230 | 45HE15S4-2W230 | 93934525 |
| 60 | 1/2 | 2 | 115 | 60HE05S4-2W115 | 93936005 |
| | 1/2 | 2 | 230 | 60HE05S4-2W230 | 93936010 |
| | 3/4 | 3 | 230 | 60HE07S4-2W230 | 93936015 |
| | 1 | 4 | 230 | 60HE1S4-2W230 | 93936020 |
| | 1.5 | 5 | 230 | 60HE15S4-2W230 | 93936025 |
| 90 | 1.5 | 4 | 230 | 90HE15S4-2W230 | 93939025 |

STAINLESS STEEL PUMP ENDS

| 1 - 10 HP 4" High Capacity Pump Ends | | | | |
|--------------------------------------|-----|--------|-------------|-----------|
| GPM | HP | Stages | Model | Order No. |
| 35 | 1/2 | 2 | 35HE05S4-PE | 93923502 |
| | 3/4 | 3 | 35HE07S4-PE | 93923503 |
| | 1 | 5 | 35HE1S4-PE | 93923505 |
| | 1.5 | 7 | 35HE15S4-PE | 93923507 |
| | 2 | 9 | 35HE2S4-PE | 93923509 |
| | 3 | 12 | 35HE3S4-PE | 93923512 |
| 45 | 1/2 | 2 | 45HE05S4-PE | 93924502 |
| | 3/4 | 3 | 45HE07S4-PE | 93924503 |
| | 1 | 4 | 45HE1S4-PE | 93924504 |
| | 1.5 | 5 | 45HE15S4-PE | 93924505 |
| | 2 | 7 | 45HE2S4-PE | 93924507 |
| | 3 | 10 | 45HE3S4-PE | 93924510 |
| 60 | 1/2 | 2 | 60HE05S4-PE | 93926002 |
| | 3/4 | 3 | 60HE07S4-PE | 93926003 |
| | 1 | 4 | 60HE1S4-PE | 93926004 |
| | 1.5 | 5 | 60HE15S4-PE | 93926005 |
| | 2 | 7 | 60HE2S4-PE | 93926007 |
| | 3 | 10 | 60HE3S4-PE | 93666010 |
| 90 | 1.5 | 4 | 90HE15S4-PE | 93929004 |
| | 2 | 6 | 90HE2S4-PE | 93929006 |
| | 3 | 8 | 90HE3S4-PE | 93929008 |

NOTES: Discharge is 2" NPT with no built in check valve. Maximum diameter across cable guard is 3.90" on all models.

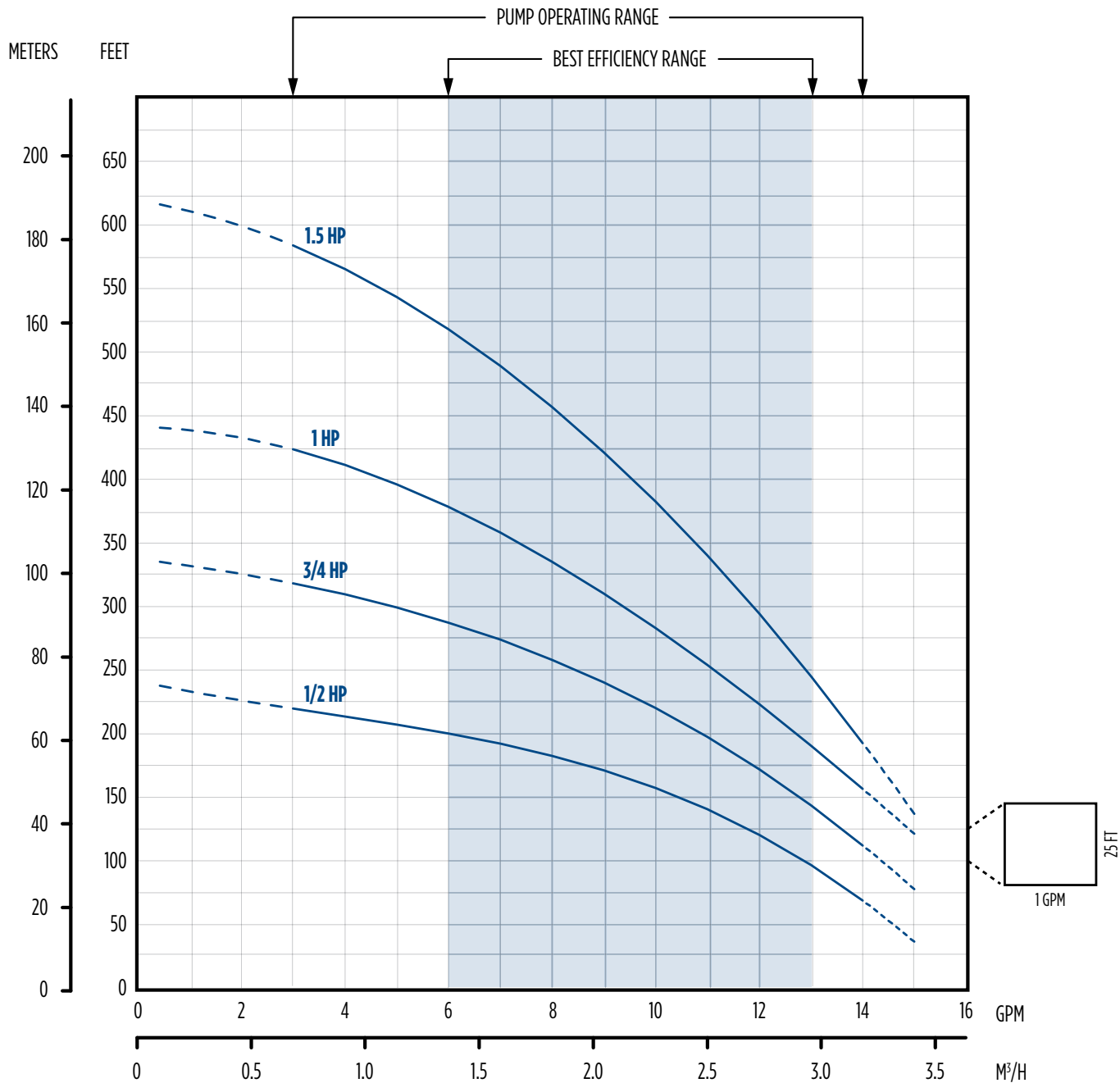
CROSS REFERENCE

| GPM | NEW Franklin High Cap E-Series | | Original Shaefer Pump Ends | |
|-----|--------------------------------|-----------|----------------------------|-----------|
| | Model | Order No. | Model | Order No. |
| 35 | 35HE05S4-PE | 93923502 | 35LE05S4-PE | 94713505 |
| | 35HE07S4-PE | 93923503 | 35LE07S4-PE | 94713510 |
| | 35HE1S4-PE | 93923505 | 35LE1S4-PE | 94713515 |
| | 35HE15S4-PE | 93923507 | 35LE15S4-PE | 94713520 |
| | 35HE2S4-PE | 93923509 | 35LE2P4-PE | 94713525 |
| | 35HE3S4-PE | 93923512 | 35LE3P4-PE | 94713530 |
| 45 | 45HE05S4-PE | 93924502 | 45LE05S4-PE | 94714505 |
| | 45HE07S4-PE | 93924503 | 45LE07S4-PE | 94714510 |
| | 45HE1S4-PE | 93924504 | 45LE1S4-PE | 94714515 |
| | 45HE15S4-PE | 93924505 | 45LE15S4-PE | 94714520 |
| | 45HE2S4-PE | 93924507 | 45LE2P4-PE | 94714525 |
| | 45HE3S4-PE | 93924510 | 45LE3P4-PE | 94714530 |

| GPM | NEW Franklin High Cap E-Series | | Original Shaefer Pump Ends | |
|-----|--------------------------------|-----------|----------------------------|-----------|
| | Model | Order No. | Model | Order No. |
| 60 | 60HE05S4-PE | 93926002 | 60LE05S4-PE | 94716005 |
| | 60HE07S4-PE | 93926003 | 60LE07S4-PE | 94716010 |
| | 60HE1S4-PE | 93926004 | 60LE1S4-PE | 94716015 |
| | 60HE15S4-PE | 93926005 | 60LE15S4-PE | 94716020 |
| | 60HE2S4-PE | 93926007 | 60LE2S4-PE | 94716025 |
| | 60HE3S4-PE | 93926010 | 60LE3S4-PE | 94716030 |
| 90 | 90HE15S4-PE | 93929004 | 90LE15S4-PE | 94719020 |
| | 90HE2S4-PE | 93929006 | 90LE2S4-PE | 94719025 |
| | 90HE3S4-PE | 93929008 | 90LE3S4-PE | 94719030 |

E SERIES EFFLUENT PUMPS - 10 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 10 GPM

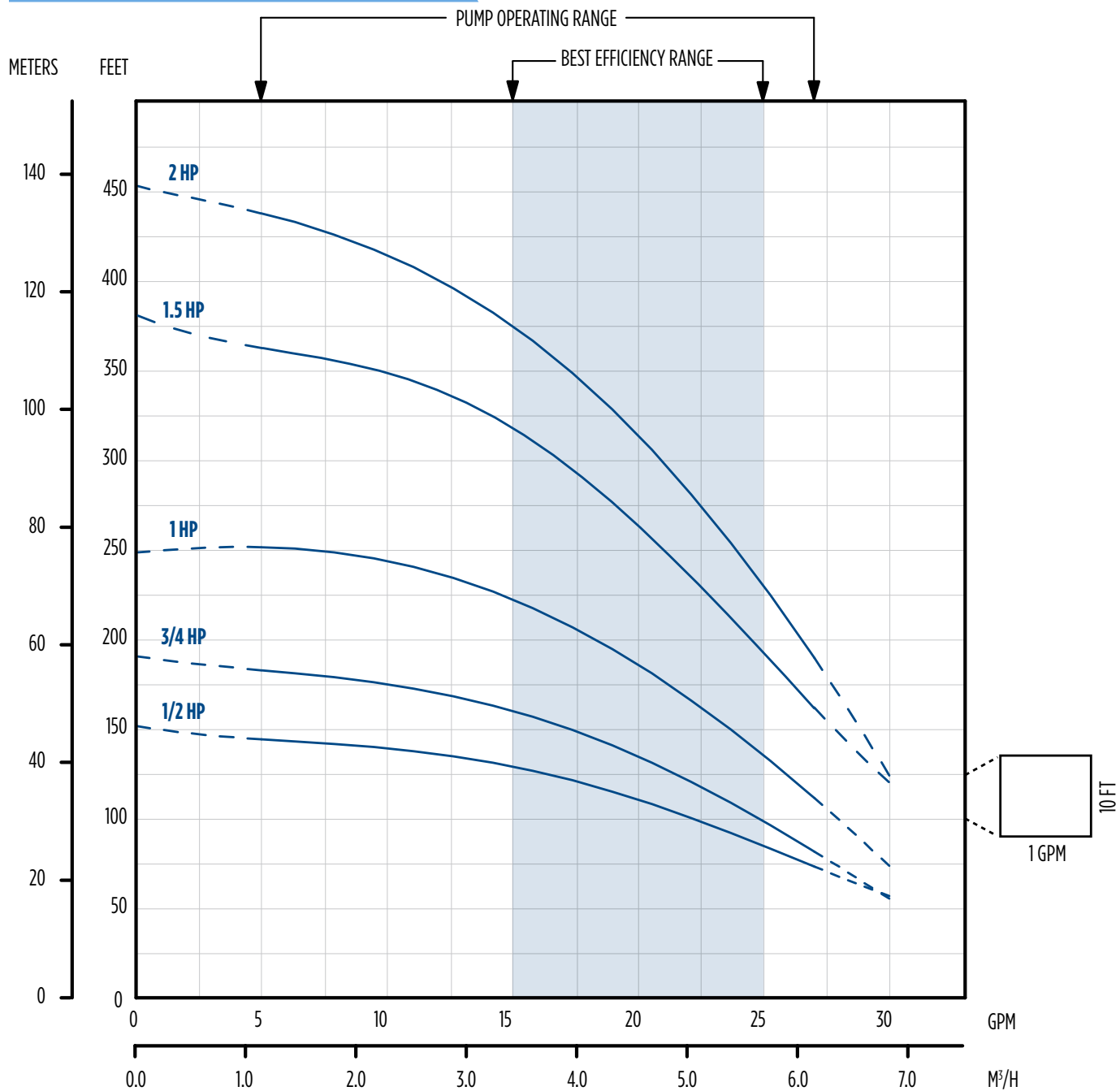
PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | | |
| 1/2 | 0 | | | 14 | 14 | 13 | 12 | 11 | 10 | 8 | 6 | | | | | | | | | 242 | |
| | 20 | 14 | 13 | 13 | 12 | 11 | 9 | 8 | 5 | | | | | | | | | | | | |
| | 30 | 13 | 12 | 12 | 11 | 9 | 7 | 5 | | | | | | | | | | | | | |
| | 40 | 12 | 11 | 10 | 9 | 7 | 4 | | | | | | | | | | | | | | |
| | 50 | 11 | 10 | 9 | 6 | 4 | | | | | | | | | | | | | | | |
| | 60 | 10 | 8 | 6 | 3 | | | | | | | | | | | | | | | | |
| | 70 | 8 | 6 | 3 | | | | | | | | | | | | | | | | | |
| 80 | 5 | | | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 96 | 87 | 79 | 70 | 61 | 53 | 44 | 35 | 27 | 18 | | | | | | | | | | |
| 3/4 | 0 | | | | | 14 | 14 | 13 | 12 | 12 | 11 | 8 | 5 | | | | | | | 337 | |
| | 20 | | | 14 | 14 | 13 | 12 | 11 | 11 | 10 | 9 | 5 | | | | | | | | | |
| | 30 | | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 7 | 3 | | | | | | | | | |
| | 40 | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | | | | | | | | | | |
| | 50 | 13 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | | | | |
| | 60 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 3 | | | | | | | | | | | |
| | 70 | 12 | 11 | 10 | 9 | 8 | 6 | 5 | | | | | | | | | | | | | |
| 80 | 11 | 10 | 9 | 8 | 6 | 4 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 137 | 129 | 120 | 111 | 103 | 94 | 85 | 77 | 68 | 59 | 38 | 16 | | | | | | | | |
| 1 | 0 | | | | | | | 14 | 14 | 13 | 13 | 11 | 9 | 7 | 5 | | | | | 441 | |
| | 20 | | | | | 14 | 14 | 13 | 13 | 12 | 11 | 9 | 8 | 5 | | | | | | | |
| | 30 | | | | 14 | 14 | 13 | 13 | 12 | 11 | 10 | 9 | 7 | 3 | | | | | | | |
| | 40 | | | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 10 | 8 | 5 | | | | | | | | |
| | 50 | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 9 | 7 | 4 | | | | | | | | |
| | 60 | 14 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 9 | 8 | 6 | | | | | | | | | |
| | 70 | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 7 | 4 | | | | | | | | | |
| 80 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 7 | 6 | | | | | | | | | | | |
| Shut-off PSI | | 182 | 174 | 165 | 156 | 148 | 139 | 130 | 122 | 113 | 105 | 83 | 61 | 40 | 18 | | | | | | |
| 1.5 | 0 | | | | | | | | | 14 | 14 | 13 | 12 | 11 | 9 | 8 | 7 | 5 | | 619 | |
| | 20 | | | | | | 14 | 14 | 14 | 13 | 13 | 12 | 11 | 10 | 8 | 7 | 5 | | | | |
| | 30 | | | | | 14 | 14 | 14 | 13 | 13 | 13 | 12 | 10 | 9 | 8 | 6 | 4 | | | | |
| | 40 | | | | 14 | 14 | 14 | 13 | 13 | 13 | 12 | 11 | 10 | 8 | 7 | 5 | | | | | |
| | 50 | | | 14 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 10 | 9 | 8 | 6 | 4 | | | | | |
| | 60 | | 14 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 11 | 10 | 8 | 7 | 5 | 3 | | | | | |
| | 70 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 6 | 4 | | | | | | |
| 80 | 14 | 13 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 7 | 5 | 3 | | | | | | | |
| Shut-off PSI | | 259 | 251 | 242 | 233 | 225 | 216 | 207 | 199 | 190 | 181 | 160 | 138 | 117 | 95 | 73 | 52 | 30 | 8 | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

E SERIES EFFLUENT PUMPS - 20 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 20 GPM

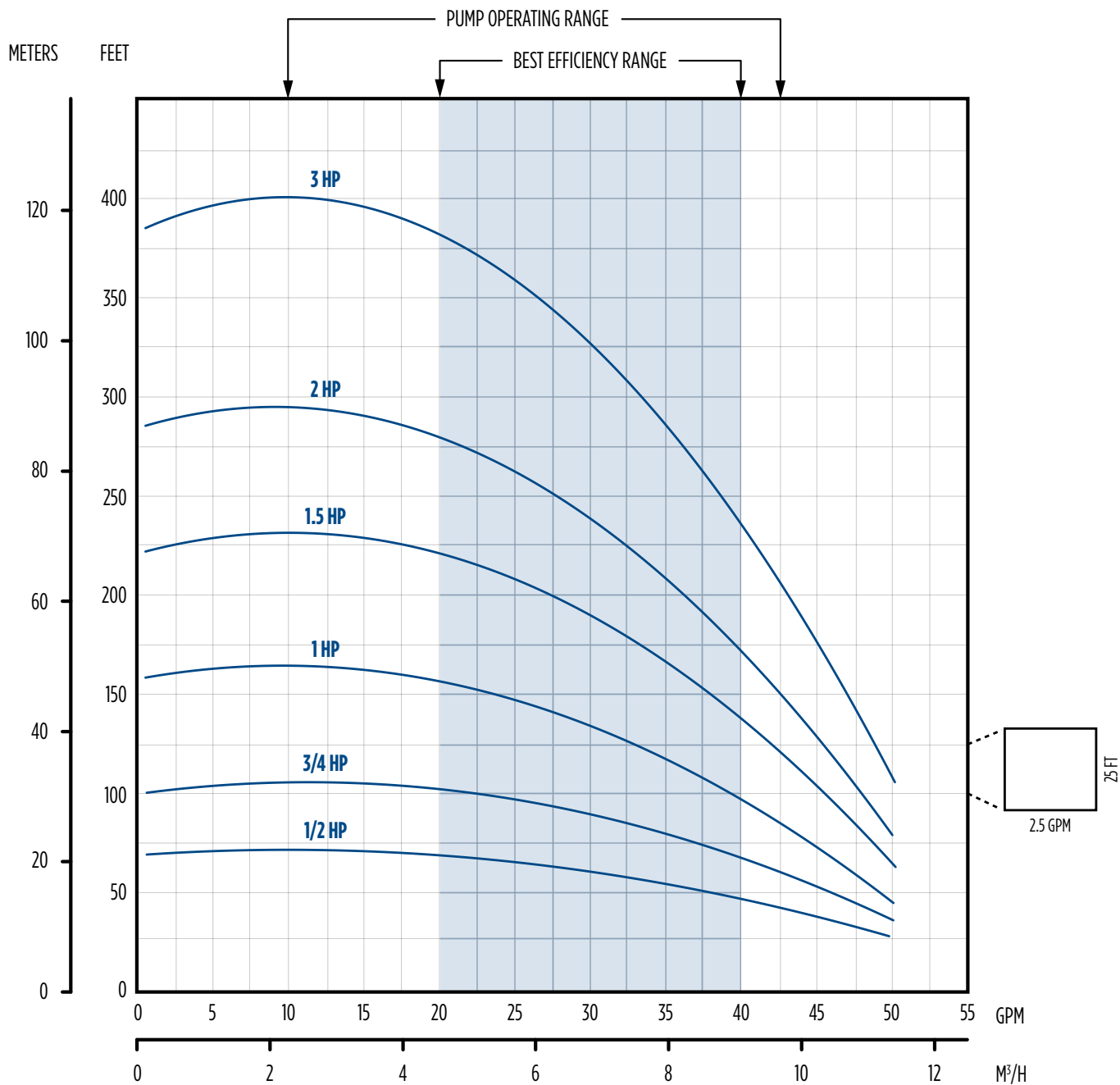
PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | |
| 1/2 | 0 | | | | 26 | 22 | 18 | 9 | | | | | | | | | | | 152 |
| | 20 | | 24 | 21 | 16 | | | | | | | | | | | | | | |
| | 30 | 24 | 21 | 15 | | | | | | | | | | | | | | | |
| | 40 | 20 | 13 | | | | | | | | | | | | | | | | |
| | 50 | 12 | | | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 57 | 48 | 40 | 31 | 22 | 14 | 5 | | | | | | | | | | | |
| 3/4 | 0 | | | | 27 | 25 | 22 | 19 | 15 | 7 | | | | | | | | | 191 |
| | 20 | | 26 | 24 | 21 | 18 | 13 | | | | | | | | | | | | |
| | 30 | 26 | 24 | 21 | 18 | 12 | | | | | | | | | | | | | |
| | 40 | 23 | 20 | 17 | 11 | | | | | | | | | | | | | | |
| | 50 | 20 | 16 | 9 | | | | | | | | | | | | | | | |
| | 60 | 15 | 8 | | | | | | | | | | | | | | | | |
| | 70 | 6 | | | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 74 | 65 | 57 | 48 | 39 | 31 | 22 | 13 | 5 | | | | | | | | | |
| 1 | 0 | | | | | | 26 | 25 | 23 | 20 | 18 | 6 | | | | | | | 251 |
| | 20 | | | 27 | 26 | 24 | 22 | 20 | 18 | 15 | 8 | | | | | | | | |
| | 30 | | 27 | 26 | 24 | 22 | 19 | 17 | 14 | 7 | | | | | | | | | |
| | 40 | 27 | 25 | 23 | 21 | 19 | 17 | 13 | | | | | | | | | | | |
| | 50 | 25 | 23 | 21 | 19 | 16 | 12 | | | | | | | | | | | | |
| | 60 | 23 | 21 | 18 | 16 | 11 | | | | | | | | | | | | | |
| | 70 | 20 | 18 | 15 | 10 | | | | | | | | | | | | | | |
| | 80 | 18 | 15 | 9 | | | | | | | | | | | | | | | |
| Shut-off PSI | | 100 | 91 | 83 | 74 | 65 | 57 | 48 | 40 | 31 | 22 | 1 | | | | | | | |
| 1.5 | 0 | | | | | | | 27 | 26 | 24 | 21 | 17 | 9 | | | | | | 379 |
| | 20 | | | | | | 27 | 25 | 24 | 23 | 21 | 17 | 10 | | | | | | |
| | 30 | | | | | 26 | 25 | 24 | 22 | 21 | 20 | 15 | | | | | | | |
| | 40 | | | | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 11 | | | | | | | |
| | 50 | | 27 | 26 | 25 | 23 | 22 | 21 | 19 | 17 | 15 | | | | | | | | |
| | 60 | 27 | 26 | 24 | 23 | 22 | 20 | 19 | 17 | 15 | 11 | | | | | | | | |
| | 70 | 26 | 24 | 23 | 21 | 20 | 19 | 17 | 14 | 11 | 5 | | | | | | | | |
| | 80 | 24 | 23 | 21 | 20 | 18 | 16 | 14 | 10 | | | | | | | | | | |
| Shut-off PSI | | 156 | 147 | 138 | 130 | 121 | 112 | 104 | 95 | 86 | 78 | 56 | 34 | 13 | | | | | |
| 2 | 0 | | | | | | | | 27 | 27 | 24 | 21 | 17 | 12 | | | | | 452 |
| | 20 | | | | | | | 27 | 26 | 25 | 24 | 21 | 18 | 13 | | | | | |
| | 30 | | | | | | 27 | 26 | 25 | 24 | 23 | 19 | 16 | 9 | | | | | |
| | 40 | | | | | 27 | 26 | 25 | 24 | 23 | 21 | 18 | 13 | | | | | | |
| | 50 | | | | 27 | 26 | 25 | 24 | 22 | 21 | 20 | 16 | 10 | | | | | | |
| | 60 | | 27 | 27 | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 14 | 5 | | | | | | |
| | 70 | 27 | 27 | 26 | 24 | 23 | 22 | 21 | 19 | 18 | 16 | 10 | | | | | | | |
| | 80 | 26 | 25 | 24 | 23 | 22 | 20 | 19 | 18 | 16 | 14 | 6 | | | | | | | |
| Shut-off PSI | | 187 | 178 | 170 | 161 | 153 | 144 | 135 | 127 | 118 | 109 | 88 | 66 | 44 | 23 | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

E SERIES EFFLUENT PUMPS - 35 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 35 GPM

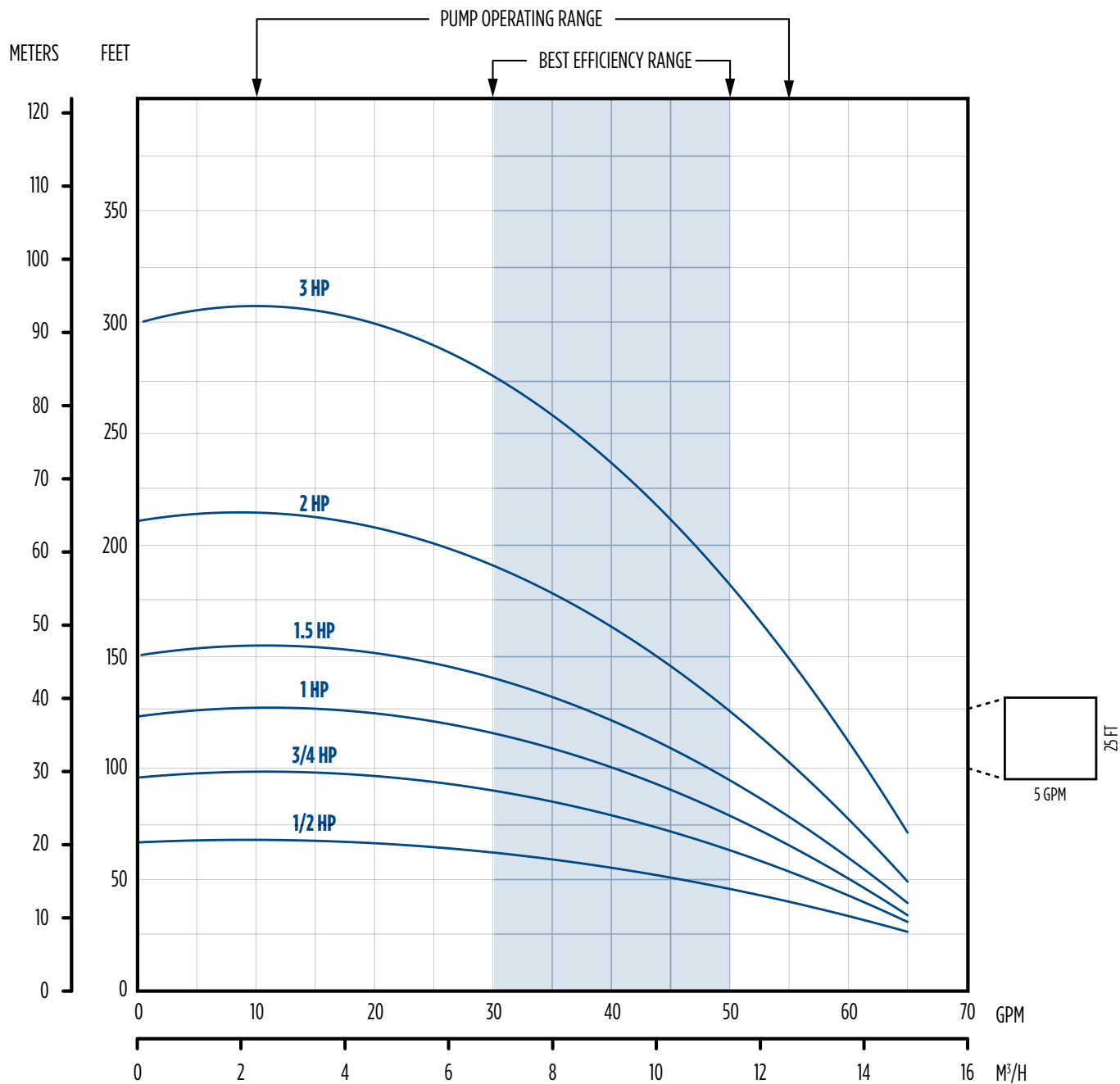
PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | |
| 1/2 | 0 | | | 44 | 31 | | | | | | | | | | | | | | 70 |
| | 10 | | 42 | 28 | | | | | | | | | | | | | | | |
| | 20 | 40 | 24 | | | | | | | | | | | | | | | | |
| | 30 | 19 | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 30 | 22 | 13 | 4 | -4 | | | | | | | | | | | | | |
| 3/4 | 0 | | | | 43 | 35 | 22 | | | | | | | | | | | | 103 |
| | 10 | | | 42 | 33 | | | | | | | | | | | | | | |
| | 20 | | 40 | 32 | | | | | | | | | | | | | | | |
| | 30 | 39 | 30 | | | | | | | | | | | | | | | | |
| | 40 | 28 | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 45 | 36 | 27 | 19 | 10 | 1 | | | | | | | | | | | | |
| 1 | 0 | | | | | 44 | 39 | 34 | 28 | | | | | | | | | | 162 |
| | 10 | | | | | 43 | 39 | 33 | 27 | | | | | | | | | | |
| | 20 | | | 42 | 38 | 32 | 25 | | | | | | | | | | | | |
| | 30 | | 42 | 37 | 31 | 24 | | | | | | | | | | | | | |
| | 40 | 41 | 36 | 30 | 22 | | | | | | | | | | | | | | |
| | 50 | 35 | 29 | 20 | | | | | | | | | | | | | | | |
| | 60 | 28 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 70 | 61 | 53 | 44 | 35 | 27 | 18 | 10 | | | | | | | | | | |
| 1.5 | 0 | | | | | | | 43 | 40 | 36 | 32 | 27 | | | | | | | 228 |
| | 10 | | | | | | 42 | 39 | 36 | 32 | 27 | | | | | | | | |
| | 20 | | | | | 42 | 39 | 35 | 31 | 26 | | | | | | | | | |
| | 30 | | | | 41 | 38 | 34 | 30 | 25 | | | | | | | | | | |
| | 40 | | | 41 | 38 | 34 | 29 | 24 | | | | | | | | | | | |
| | 50 | | 40 | 37 | 33 | 29 | 22 | | | | | | | | | | | | |
| | 60 | 40 | 37 | 33 | 28 | 21 | | | | | | | | | | | | | |
| | 70 | 36 | 32 | 27 | 20 | | | | | | | | | | | | | | |
| | 80 | 31 | 26 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 99 | 90 | 81 | 73 | 64 | 55 | 47 | 38 | 29 | 21 | 12 | | | | | | | |
| 2 | 0 | | | | | | | | 44 | 41 | 39 | 36 | 30 | 20 | | | | | 290 |
| | 10 | | | | | | | 43 | 41 | 39 | 36 | 33 | 25 | | | | | | |
| | 20 | | | | | | 43 | 41 | 38 | 35 | 32 | 29 | | | | | | | |
| | 30 | | | | | 43 | 40 | 38 | 35 | 32 | 28 | 23 | | | | | | | |
| | 40 | | | | 42 | 40 | 37 | 34 | 31 | 27 | 22 | | | | | | | | |
| | 50 | | | 42 | 40 | 37 | 34 | 31 | 27 | 21 | | | | | | | | | |
| | 60 | | 42 | 39 | 36 | 33 | 30 | 26 | 20 | | | | | | | | | | |
| | 70 | 41 | 39 | 36 | 33 | 29 | 25 | 19 | | | | | | | | | | | |
| | 80 | 38 | 36 | 32 | 29 | 24 | 18 | | | | | | | | | | | | |
| Shut-off PSI | | 126 | 117 | 108 | 100 | 91 | 82 | 74 | 65 | 56 | 48 | 39 | 22 | 4 | | | | | |
| 3 | 0 | | | | | | | | | | | 43 | 40 | 36 | 31 | 25 | | | 394 |
| | 10 | | | | | | | | | | 43 | 41 | 37 | 33 | 28 | 20 | | | |
| | 20 | | | | | | | | | | 43 | 41 | 39 | 35 | 30 | 24 | | | |
| | 30 | | | | | | | | 42 | 41 | 39 | 37 | 32 | 27 | | | | | |
| | 40 | | | | | | | 42 | 40 | 38 | 36 | 34 | 29 | 22 | | | | | |
| | 50 | | | | | | 42 | 40 | 38 | 36 | 34 | 32 | 26 | | | | | | |
| | 60 | | | | | 42 | 40 | 38 | 36 | 34 | 31 | 28 | 21 | | | | | | |
| | 70 | | | | 41 | 39 | 38 | 35 | 33 | 31 | 28 | 25 | | | | | | | |
| | 80 | | | 41 | 39 | 37 | 35 | 33 | 30 | 27 | 24 | | | | | | | | |
| Shut-off PSI | | | | 153 | 145 | 136 | 127 | 119 | 110 | 101 | 93 | 84 | 67 | 49 | 32 | 15 | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

E SERIES EFFLUENT PUMPS - 45 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 45 GPM

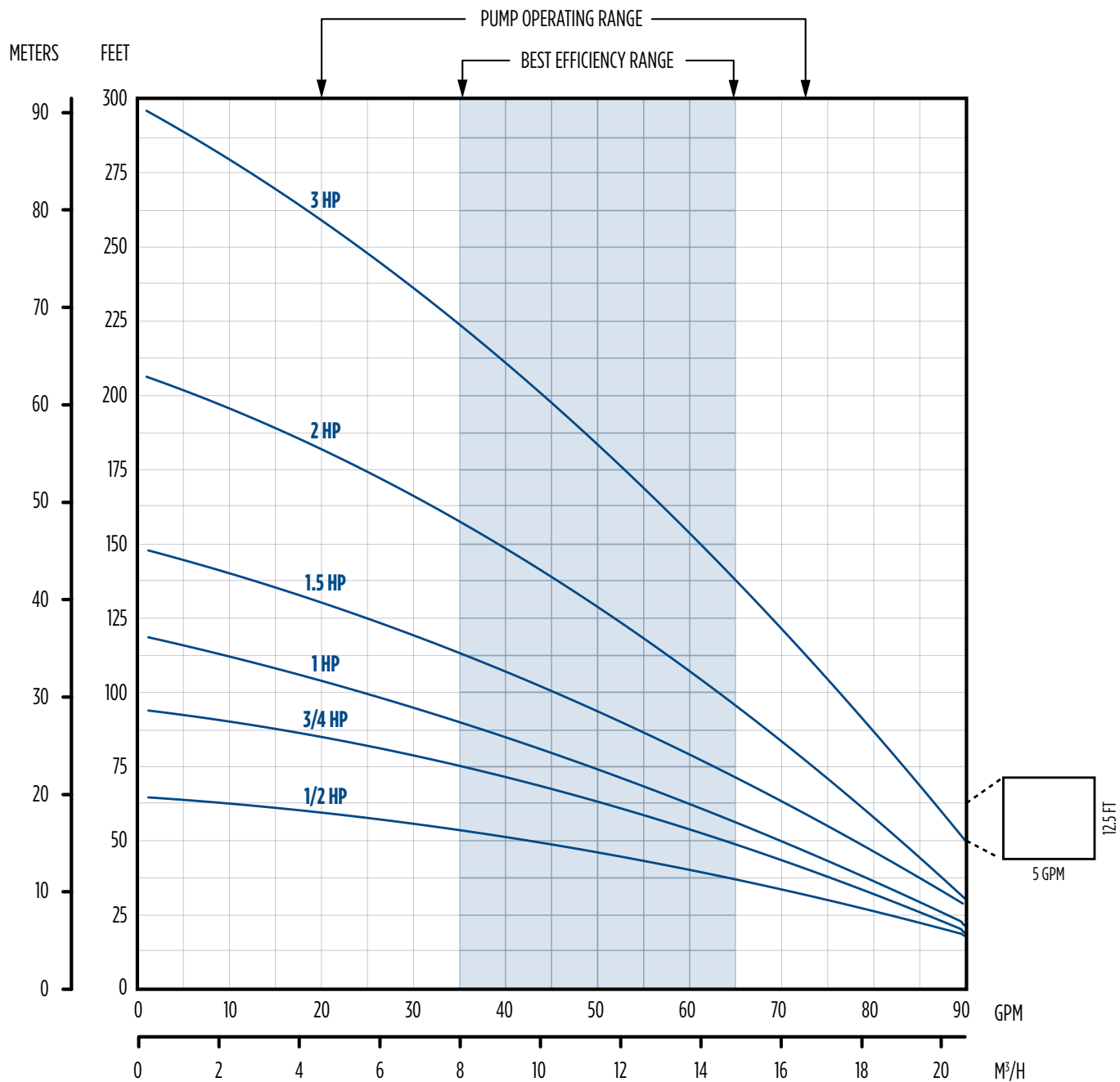
PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | |
| 1/2 | 0 | | | 55 | 32 | | | | | | | | | | | | | | 68 |
| | 10 | | 52 | | | | | | | | | | | | | | | | |
| | 20 | 49 | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 29 | 21 | 12 | 3 | | | | | | | | | | | | | | |
| 3/4 | 0 | | | | 52 | 39 | | | | | | | | | | | | | 98 |
| | 10 | | | 50 | 36 | | | | | | | | | | | | | | |
| | 20 | | 48 | 33 | | | | | | | | | | | | | | | |
| | 30 | 46 | 30 | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 42 | 34 | 25 | 16 | 8 | | | | | | | | | | | | | |
| 1 | 0 | | | | | 50 | 41 | | | | | | | | | | | | 129 |
| | 10 | | | | 48 | 39 | | | | | | | | | | | | | |
| | 20 | | | 47 | 37 | | | | | | | | | | | | | | |
| | 30 | 54 | 46 | 35 | | | | | | | | | | | | | | | |
| | 40 | 44 | 33 | | | | | | | | | | | | | | | | |
| | 50 | 31 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 56 | 47 | 39 | 30 | 21 | 13 | 4 | | | | | | | | | | | |
| 1.5 | 0 | | | | | 52 | 48 | 40 | 30 | | | | | | | | | | 155 |
| | 10 | | | | 53 | 47 | 39 | | | | | | | | | | | | |
| | 20 | | | 52 | 46 | 38 | | | | | | | | | | | | | |
| | 30 | | 52 | 45 | 36 | | | | | | | | | | | | | | |
| | 40 | 51 | 44 | 34 | | | | | | | | | | | | | | | |
| | 50 | 42 | 33 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 67 | 58 | 50 | 41 | 32 | 24 | 15 | 6 | | | | | | | | | | |
| 2 | 0 | | | | | | | 51 | 46 | 41 | 34 | | | | | | | | 215 |
| | 10 | | | | | | 50 | 46 | 40 | 33 | | | | | | | | | |
| | 20 | | | | | 50 | 45 | 39 | 31 | | | | | | | | | | |
| | 30 | | | | 49 | 44 | 38 | 30 | | | | | | | | | | | |
| | 40 | | | 48 | 43 | 37 | | | | | | | | | | | | | |
| | 50 | | 47 | 42 | 36 | | | | | | | | | | | | | | |
| | 60 | 47 | 41 | 34 | | | | | | | | | | | | | | | |
| | 70 | 40 | 33 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 93 | 84 | 76 | 67 | 58 | 50 | 41 | 32 | 24 | 15 | | | | | | | | |
| 3 | 0 | | | | | | | | | 53 | 50 | 47 | 39 | | | | | | 311 |
| | 10 | | | | | | | | 53 | 50 | 47 | 43 | 34 | | | | | | |
| | 20 | | | | | | | 53 | 49 | 46 | 42 | 38 | | | | | | | |
| | 30 | | | | | | 52 | 49 | 45 | 42 | 37 | 32 | | | | | | | |
| | 40 | | | | | 52 | 48 | 45 | 41 | 37 | 31 | | | | | | | | |
| | 50 | | | | 51 | 48 | 44 | 40 | 36 | 30 | | | | | | | | | |
| | 60 | | | 51 | 47 | 44 | 40 | 35 | | | | | | | | | | | |
| | 70 | | 50 | 47 | 43 | 39 | 34 | | | | | | | | | | | | |
| | 80 | 50 | 46 | 43 | 38 | 33 | | | | | | | | | | | | | |
| Shut-off PSI | | 135 | 126 | 117 | 109 | 100 | 91 | 83 | 74 | 65 | 57 | 48 | 31 | | | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

E SERIES EFFLUENT PUMPS - 60 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 60 GPM

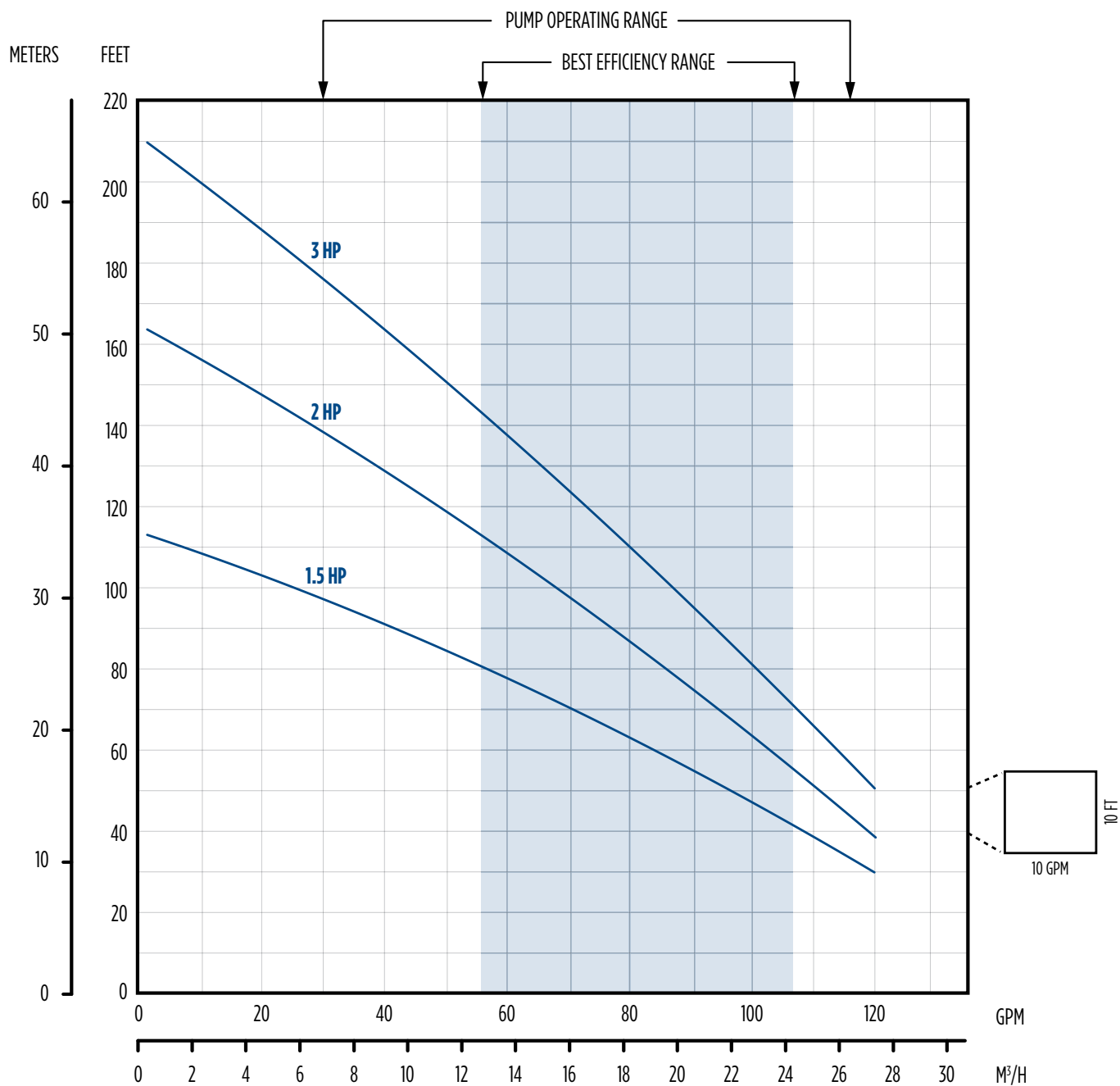
PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | |
| 1/2 | 0 | | | 60 | | | | | | | | | | | | | | | 65 |
| | 10 | | 55 | | | | | | | | | | | | | | | | |
| | 20 | 49 | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 28 | 19 | 11 | | | | | | | | | | | | | | | |
| 3/4 | 0 | | | | 53 | | | | | | | | | | | | | | 96 |
| | 10 | | | 50 | | | | | | | | | | | | | | | |
| | 20 | | 46 | | | | | | | | | | | | | | | | |
| | 30 | 42 | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 42 | 33 | 24 | 16 | | | | | | | | | | | | | | |
| 1 | 0 | | | | 62 | 44 | | | | | | | | | | | | | 121 |
| | 10 | | | 59 | 42 | | | | | | | | | | | | | | |
| | 20 | | 57 | 39 | | | | | | | | | | | | | | | |
| | 30 | 54 | 35 | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 52 | 44 | 35 | 26 | 18 | | | | | | | | | | | | | |
| 1.5 | 0 | | | | | 59 | 45 | | | | | | | | | | | | 151 |
| | 10 | | | | 57 | 43 | | | | | | | | | | | | | |
| | 20 | | | 55 | 41 | | | | | | | | | | | | | | |
| | 30 | | 53 | 38 | | | | | | | | | | | | | | | |
| | 40 | 51 | 36 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 65 | 57 | 48 | 39 | 31 | 22 | | | | | | | | | | | | |
| 2 | 0 | | | | | 63 | 54 | 44 | | | | | | | | | | | 210 |
| | 10 | | | | | 62 | 53 | 43 | 32 | | | | | | | | | | |
| | 20 | | | | 61 | 51 | 41 | 30 | | | | | | | | | | | |
| | 30 | | | 59 | 50 | 40 | | | | | | | | | | | | | |
| | 40 | | 58 | 48 | 38 | | | | | | | | | | | | | | |
| Shut-off PSI | | 91 | 82 | 74 | 65 | 56 | 48 | 39 | 30 | | | | | | | | | | |
| 3 | 0 | | | | | | | | | 58 | 51 | 44 | | | | | | | 302 |
| | 10 | | | | | | | 63 | 57 | 50 | 43 | 35 | | | | | | | |
| | 20 | | | | | | 62 | 56 | 49 | 42 | 34 | | | | | | | | |
| | 30 | | | | | 62 | 55 | 48 | 41 | | | | | | | | | | |
| | 40 | | | | 61 | 54 | 47 | 39 | | | | | | | | | | | |
| Shut-off PSI | | 131 | 122 | 113 | 105 | 96 | 87 | 79 | 70 | 61 | 53 | 44 | | | | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

E SERIES EFFLUENT PUMPS - 90 GPM

PERFORMANCE



E SERIES EFFLUENT PUMPS - 90 GPM

PERFORMANCE

| HP | PSI | Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance. | | | | | | | | | | | | | | | | | Shut-Off (ft) |
|--------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | |
| 1.5 | 0 | | | | 65 | 57 | | | | | | | | | | | | | 112 |
| | 10 | | 105 | 81 | 75 | | | | | | | | | | | | | | |
| | 20 | 102 | 76 | | | | | | | | | | | | | | | | |
| | 30 | 72 | 44 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 48 | 40 | 31 | 23 | 14 | | | | | | | | | | | | | |
| 2 | 0 | | | | 103 | 86 | 69 | | | | | | | | | | | | 162 |
| | 10 | | | 101 | 84 | 66 | | | | | | | | | | | | | |
| | 20 | | 98 | 81 | 63 | | | | | | | | | | | | | | |
| | 30 | 95 | 78 | 60 | | | | | | | | | | | | | | | |
| | 40 | 76 | 57 | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 70 | 61 | 53 | 44 | 35 | 27 | | | | | | | | | | | | |
| 3 | 0 | | | | | 101 | 87 | 73 | 59 | | | | | | | | | | 210 |
| | 10 | | | | 99 | 85 | 71 | 57 | | | | | | | | | | | |
| | 20 | | | 97 | 83 | 69 | | | | | | | | | | | | | |
| | 30 | 108 | 95 | 81 | 67 | | | | | | | | | | | | | | |
| | 40 | 93 | 79 | 64 | | | | | | | | | | | | | | | |
| | 50 | 77 | 62 | | | | | | | | | | | | | | | | |
| | 60 | 60 | | | | | | | | | | | | | | | | | |
| Shut-off PSI | | 91 | 82 | 74 | 65 | 56 | 48 | 39 | 30 | | | | | | | | | | |

NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

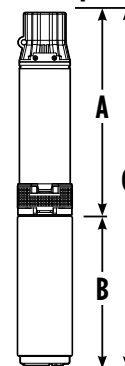
E SERIES EFFLUENT PUMPS - DIMENSIONS

THERMOPLASTIC

| GPM | HP | Stages | Dimensions (in) | | | Wt. (lbs) | |
|-----|-----|--------|-----------------|-------|-------|-----------|-----|
| | | | A | B | C | PE | PMA |
| 10 | 1/2 | 6 | 12.97 | 9.51 | 22.48 | 7 | 25 |
| | 3/4 | 8 | 14.69 | 10.64 | 25.33 | 8 | 29 |
| | 1 | 11 | 17.44 | 11.73 | 29.17 | 9 | 33 |
| | 1.5 | 15 | 21.06 | 15.10 | 36.16 | 10 | 41 |
| 20 | 1/2 | 4 | 12.97 | 9.51 | 22.48 | 7 | 25 |
| | 3/4 | 5 | 13.65 | 10.64 | 24.29 | 6 | 28 |
| | 1 | 7 | 16.10 | 11.73 | 26.42 | 8 | 32 |
| | 1.5 | 10 | 19.77 | 15.10 | 34.87 | 8 | 39 |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Thermoplastic

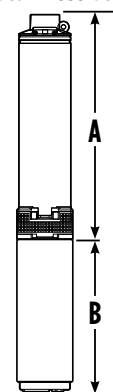


STAINLESS STEEL DIMENSIONS

| GPM | HP | Stages | Dimensions (in) | | | Wt. (lbs) | |
|-----|-----|--------|-----------------|------|------|-----------|-----|
| | | | A | B | C | PE | PMA |
| 35 | 1/2 | 2 | 9.1 | 9.5 | 18.6 | 6 | 24 |
| | 1/2 | 2 | 9.1 | 9.5 | 18.6 | 6 | 24 |
| | 3/4 | 3 | 10.3 | 10.7 | 21.0 | 7 | 28 |
| | 1 | 5 | 12.9 | 11.7 | 24.6 | 8 | 32 |
| | 1.5 | 7 | 15.4 | 15.1 | 30.5 | 9 | 38 |
| | 2 | 9 | 17.1 | 15.1 | 32.2 | 11 | 44 |
| | 3 | 12 | 20.9 | 19.0 | 40.0 | 12 | 53 |
| 45 | 1/2 | 2 | 9.9 | 9.5 | 19.4 | 9 | 27 |
| | 1/2 | 2 | 9.9 | 9.5 | 19.4 | 9 | 27 |
| | 3/4 | 3 | 14.3 | 10.6 | 24.9 | 10 | 32 |
| | 1 | 4 | 16.5 | 11.7 | 28.2 | 11 | 35 |
| | 1.5 | 5 | 18.8 | 15.1 | 33.9 | 14 | 43 |
| | 2 | 7 | 17.6 | 15.1 | 32.7 | 10 | 43 |
| | 3 | 10 | 22.9 | 19.0 | 41.8 | 11 | 52 |
| 60 | 1/2 | 2 | 9.9 | 9.5 | 19.4 | 10 | 28 |
| | 1/2 | 2 | 9.9 | 9.5 | 19.4 | 10 | 28 |
| | 3/4 | 3 | 12.1 | 10.6 | 22.7 | 11 | 32 |
| | 1 | 4 | 14.3 | 11.7 | 26.0 | 12 | 35 |
| | 1.5 | 5 | 16.5 | 15.1 | 31.6 | 13 | 44 |
| | 2 | 7 | 23.5 | 15.1 | 38.6 | 11 | 44 |
| | 3 | 10 | 33.3 | 19.0 | 52.3 | 13 | 54 |
| 90 | 1.5 | 4 | 17.3 | 15.1 | 32.4 | 14 | 43 |
| | 2 | 6 | 23.4 | 15.1 | 38.5 | 11 | 44 |
| | 3 | 8 | 31.4 | 19.0 | 50.4 | 13 | 54 |

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Stainless Steel



C1 SERIES CISTERN PUMPS

Designed for use in gray water/filtered effluent service applications, the C1 Series cistern pump provides high performance and long life in less than ideal water conditions. The C1 Series pump is able to pass solids up to 1/8" without having a negative effect on the internal hydraulic components.

The pump's unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistern or tank, C1 Series pumps are suitable for use in agricultural, residential, and commercial installations.

FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Standard backflow prevention through a built-in, but removable, check valve
- Single-shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a maximum shut-off pressure of 100 psi
- Heavy-duty 300 V 10 foot SJ00W jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other fountain or pond applications
- Agriculture and livestock water pumping



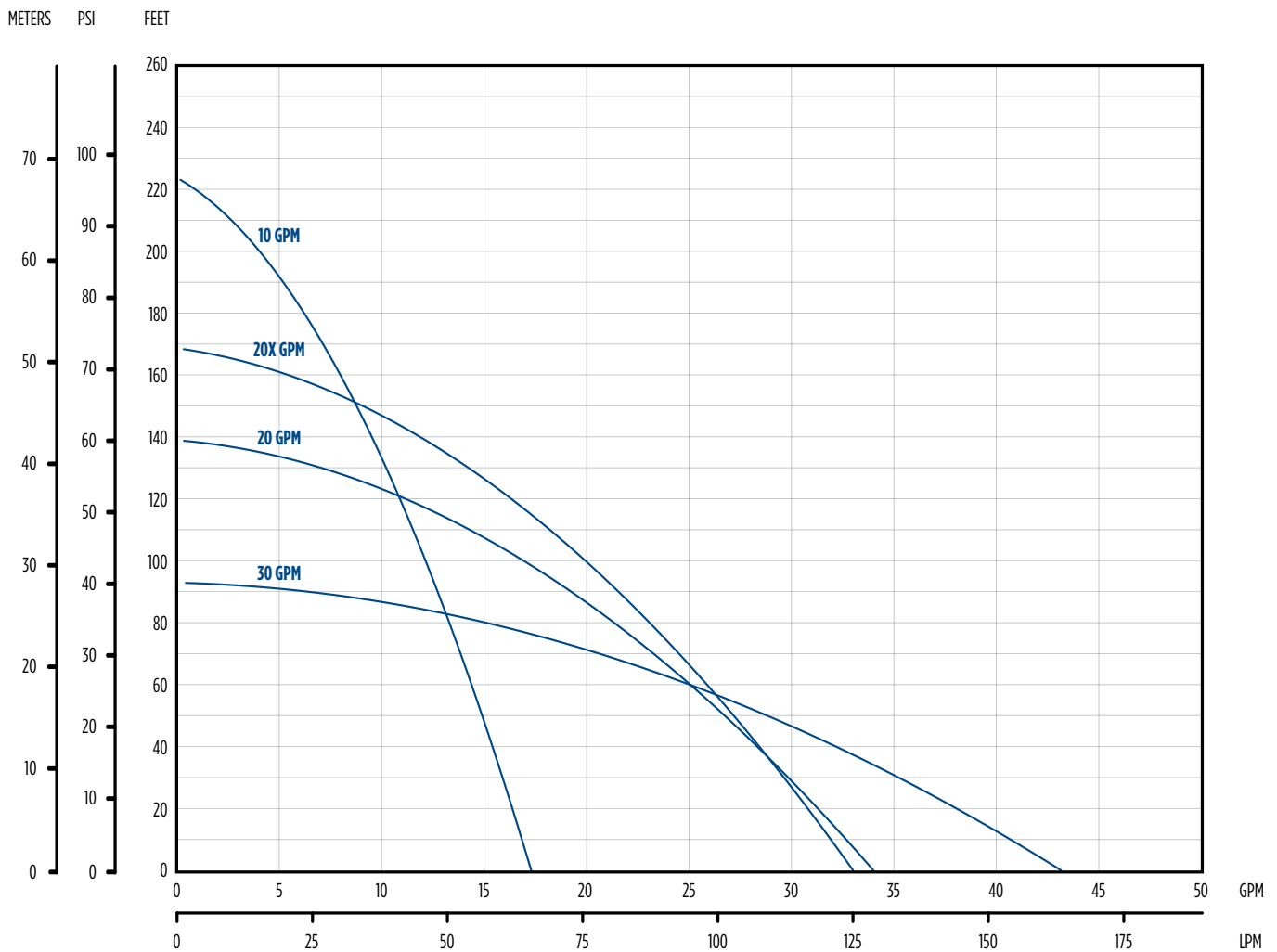
C1 SERIES CISTERN PUMPS - ORDERING INFORMATION

ORDERING INFORMATION

| FPS C1 Series Pumps | | | | | | | |
|---------------------|-----|-------|-------|------------------|----------|-------------|--------------|
| GPM | HP | Volts | Stage | Model | Order | Length (in) | Weight (lbs) |
| 10 | 1/2 | 115 | 6 | 10C1-05P4-2W115 | 90301005 | 26 | 17 |
| | | 230 | 6 | 10C1-05P4-2W230 | 90301010 | 26 | 17 |
| 20 | | 115 | 4 | 20C1-05P4-2W115 | 90302005 | 25 | 16 |
| | | 230 | 4 | 20C1-05P4-2W230 | 90302010 | 25 | 16 |
| 20X | | 115 | 5 | 20XC1-05P4-2W115 | 90302015 | 26 | 17 |
| | | 230 | 5 | 20XC1-05P4-2W230 | 90302020 | 26 | 17 |
| 30 | | 115 | 3 | 30C1-05P4-2W115 | 90303005 | 25 | 16 |
| | | 230 | 3 | 30C1-05P4-2W230 | 90303010 | 25 | 16 |

NOTES: All units have 10 foot long SJ00W leads.

PERFORMANCE



SUBMERSIBLE PUMP ACCESSORIES

ORDERING INFORMATION

| Check Valves - Silicone Bronze | | | | | |
|--------------------------------|-------------|-------------|-----------|-----------|-----------|
| Description | Inlet | Outlet | Case Qty. | Order No. | Wt. (lbs) |
| Flomatic™ 4221LEB | 1-1/4" MNPT | 1" FNPT | 36 | 91980631 | 1.25 |
| Flomatic™ 4242LEB | 1-1/4" MNPT | 1-1/4" FNPT | 36 | 91980649 | 1.75 |

| Check Valves - Stainless Steel | | | | | |
|--------------------------------|-------------|-------------|-----------|-----------|-----------|
| Description | Inlet | Outlet | Case Qty. | Order No. | Wt. (lbs) |
| Flomatic™ 4221LSS2 | 1-1/4" MNPT | 1" FNPT | 49 | 91985317 | 1.4 |
| Flomatic™ 4242SS2 | 1-1/4" MNPT | 1-1/4" FNPT | 49 | 91985309 | 1.5 |

| Check Valves - Ductile Iron | | | | | |
|-----------------------------|---------|---------|-------------|-----------|-----------|
| Description | Inlet | Outlet | Carton Qty. | Order No. | Wt. (lbs) |
| Simmons #658SB | 2" MNPT | 2" FNPT | 1 | 91982157 | 3.5 |
| Simmons #660SB | 3" MNPT | 3" FNPT | 1 | 91981266 | 10 |
| Simmons #661SB | 4" MNPT | 4" FNPT | 1 | 91980334 | 21 |

| Flomatic™ Poppet with Removable Ring (Patent Pending) | | |
|---|-----------|-----------|
| Description | Order No. | Wt. (lbs) |
| Flomatic™ Poppet with Removable Ring | 91985259R | 0.1 |
| T-Handle Poppet Wrench | 305710008 | 1 |

| Flomatic™ VFD Check Valve with Removable Ring (Patent Pending) | | |
|--|-----------|-----------|
| Description | Order No. | Wt. (lbs) |
| Flomatic™ VFD Check Valve with Removable Ring | 305614000 | 0.1 |
| T-Handle Wrench for VFD Check Valve | 101218901 | 1 |

| Reducer Bushing | | | | | |
|-------------------|-------------|---------|------------|-----------|-----|
| Description | Inlet | Outlet | PSI Rating | Order No. | Wt. |
| White PVC Bushing | 1-1/4" MNPT | 1" FNPT | 200 PSI | 31031008R | 0.2 |

NOTES: Flomatic™ is a trademark of the Danfoss Corporation.



Check Valves



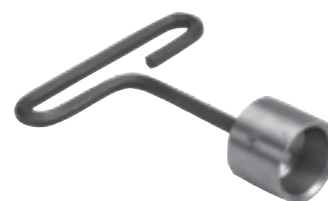
VFD-style Check Valve



Poppet



Reducer Bushing



T-Handle Poppet Wrench

REFERENCES - FRICTION LOSS

PVC SCHEDULE 80 IPS PLASTIC IN 100' OF PIPE

| Pipe Size | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | | 3" | | 4" | |
|-----------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| GPM | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) | Head Loss | Vel (ft/s) |
| 1 | 1.87 | 1.37 | 0.42 | 0.74 | 0.12 | 0.45 | 0.03 | 0.25 | 0.01 | 0.18 | | | | | | | | |
| 2 | 6.74 | 2.74 | 1.52 | 1.48 | 0.44 | 0.89 | 0.11 | 0.50 | 0.05 | 0.36 | 0.01 | 0.22 | | | | | | |
| 3 | 14.29 | 4.11 | 3.21 | 2.23 | 0.93 | 1.34 | 0.23 | 0.75 | 0.10 | 0.54 | 0.03 | 0.33 | 0.01 | 0.23 | | | | |
| 4 | 24.34 | 5.48 | 5.47 | 2.97 | 1.59 | 1.78 | 0.39 | 1.00 | 0.18 | 0.73 | 0.05 | 0.43 | 0.02 | 0.30 | | | | |
| 5 | 36.79 | 6.85 | 8.27 | 3.71 | 2.40 | 2.23 | 0.59 | 1.25 | 0.27 | 0.91 | 0.08 | 0.54 | 0.03 | 0.38 | 0.01 | 0.24 | | |
| 6 | 51.57 | 8.22 | 11.59 | 4.45 | 3.36 | 2.68 | 0.82 | 1.50 | 0.38 | 1.09 | 0.11 | 0.65 | 0.04 | 0.45 | 0.02 | 0.29 | | |
| 7 | 68.61 | 9.59 | 15.43 | 5.19 | 4.47 | 3.12 | 1.09 | 1.75 | 0.50 | 1.27 | 0.14 | 0.76 | 0.06 | 0.53 | 0.02 | 0.34 | | |
| 8 | 87.86 | 10.96 | 19.75 | 5.94 | 5.73 | 3.57 | 1.40 | 2.00 | 0.64 | 1.45 | 0.18 | 0.87 | 0.08 | 0.61 | 0.03 | 0.39 | | |
| 9 | 109.27 | 12.33 | 24.57 | 6.68 | 7.12 | 4.01 | 1.74 | 2.25 | 0.80 | 1.63 | 0.23 | 0.98 | 0.01 | 0.68 | 0.03 | 0.44 | | |
| 10 | 132.82 | 13.70 | 29.86 | 7.42 | 8.66 | 4.46 | 2.12 | 2.50 | 0.97 | 1.82 | 0.28 | 1.09 | 0.12 | 0.76 | 0.04 | 0.49 | | |
| 11 | | | 35.63 | 8.16 | 10.33 | 4.91 | 2.53 | 2.75 | 1.16 | 2.00 | 0.33 | 1.20 | 0.14 | 0.83 | 0.05 | 0.53 | | |
| 12 | | | 41.86 | 8.90 | 12.14 | 5.35 | 2.97 | 3.00 | 1.36 | 2.18 | 0.39 | 1.30 | 0.16 | 0.91 | 0.06 | 0.58 | | |
| 14 | | | 55.69 | 10.39 | 16.15 | 6.24 | 3.95 | 3.50 | 1.81 | 2.54 | 0.52 | 1.52 | 0.22 | 1.06 | 0.07 | 0.68 | | |
| 16 | | | 71.31 | 11.87 | 20.68 | 7.14 | 5.06 | 4.00 | 2.32 | 2.90 | 0.67 | 1.74 | 0.28 | 1.21 | 0.09 | 0.78 | | |
| 18 | | | 88.69 | 13.36 | 25.72 | 8.03 | 6.30 | 4.50 | 2.89 | 3.27 | 0.83 | 1.96 | 0.34 | 1.36 | 0.12 | 0.87 | | |
| 20 | | | 107.80 | 14.84 | 31.26 | 8.92 | 7.65 | 5.00 | 3.51 | 3.63 | 1.01 | 2.17 | 0.42 | 1.51 | 0.14 | 0.97 | 0.04 | 0.56 |
| 22 | | | | | 37.29 | 9.81 | 9.13 | 5.50 | 4.19 | 3.99 | 1.20 | 2.39 | 0.50 | 1.67 | 0.17 | 1.07 | 0.04 | 0.61 |
| 24 | | | | | 43.81 | 10.70 | 10.72 | 6.00 | 4.92 | 4.36 | 1.41 | 2.61 | 0.59 | 1.82 | 0.20 | 1.17 | 0.05 | 0.67 |
| 26 | | | | | 50.81 | 11.60 | 12.44 | 6.50 | 5.71 | 4.72 | 1.64 | 2.83 | 0.68 | 1.97 | 0.23 | 1.26 | 0.06 | 0.73 |
| 28 | | | | | 58.29 | 12.49 | 14.27 | 7.00 | 6.55 | 5.08 | 1.88 | 3.04 | 0.78 | 2.12 | 0.26 | 1.36 | 0.07 | 0.78 |
| 30 | | | | | 66.23 | 13.38 | 16.21 | 7.50 | 7.44 | 5.45 | 2.13 | 3.26 | 0.89 | 2.27 | 0.30 | 1.46 | 0.08 | 0.84 |
| 35 | | | | | | | 21.57 | 8.75 | 9.89 | 6.35 | 2.84 | 3.80 | 1.18 | 2.65 | 0.40 | 1.70 | 0.10 | 0.98 |
| 40 | | | | | | | 27.62 | 10.00 | 12.67 | 7.26 | 3.63 | 4.35 | 1.51 | 3.03 | 0.51 | 1.94 | 0.13 | 1.12 |
| 45 | 6" Pipe | | | | | | 34.36 | 11.25 | 15.76 | 8.17 | 4.52 | 4.89 | 1.88 | 3.41 | 0.64 | 2.19 | 0.17 | 1.26 |
| 50 | 0.03 | 0.62 | | | | | 41.76 | 12.51 | 19.16 | 9.08 | 5.49 | 5.44 | 2.28 | 3.78 | 0.77 | 2.43 | 0.20 | 1.40 |
| 55 | 0.03 | 0.68 | | | | | 49.82 | 13.76 | 22.85 | 9.99 | 6.55 | 5.98 | 2.72 | 4.16 | 0.92 | 2.67 | 0.24 | 1.53 |
| 60 | 0.04 | 0.74 | | | | | 58.53 | 15.01 | 26.85 | 10.89 | 7.70 | 6.52 | 3.20 | 4.54 | 1.09 | 2.91 | 0.28 | 1.67 |
| 65 | 0.04 | 0.80 | | | | | | | 31.14 | 11.80 | 8.93 | 7.07 | 3.71 | 4.92 | 1.26 | 3.16 | 0.33 | 1.81 |
| 70 | 0.05 | 0.86 | | | | | | | 35.72 | 12.71 | 10.24 | 7.61 | 4.25 | 5.30 | 1.45 | 3.40 | 0.38 | 1.95 |
| 75 | 0.06 | 0.92 | | | | | | | 40.59 | 13.62 | 11.64 | 8.15 | 4.83 | 5.68 | 1.64 | 3.64 | 0.43 | 2.09 |
| 80 | 0.07 | 0.98 | | | | | | | 45.74 | 14.52 | 13.12 | 8.70 | 5.45 | 6.06 | 1.85 | 3.89 | 0.48 | 2.23 |
| 85 | 0.07 | 1.05 | | | | | | | 51.18 | 15.43 | 14.68 | 9.24 | 6.09 | 6.43 | 2.07 | 4.13 | 0.54 | 2.37 |
| 90 | 0.08 | 1.11 | | | | | | | 56.89 | 16.34 | 16.32 | 9.78 | 6.77 | 6.81 | 2.30 | 4.37 | 0.60 | 2.51 |
| 95 | 0.09 | 1.17 | | | | | | | 62.88 | 17.25 | 18.03 | 10.33 | 7.49 | 7.19 | 2.54 | 4.61 | 0.66 | 2.65 |
| 100 | 0.01 | 1.23 | | | | | | | 69.15 | 18.16 | 19.83 | 10.87 | 8.23 | 7.57 | 2.80 | 4.86 | 0.73 | 2.79 |
| 125 | 0.15 | 1.54 | | | | | | | | | 29.98 | 13.59 | 12.45 | 9.46 | 4.23 | 6.07 | 1.01 | 3.49 |
| 150 | 0.21 | 1.85 | | | | | | | | | 42.02 | 16.31 | 17.45 | 11.35 | 5.93 | 7.29 | 1.54 | 4.19 |
| 175 | 0.28 | 2.15 | | | | | | | | | | | 23.21 | 13.25 | 7.89 | 8.50 | 2.05 | 4.88 |

NOTES: Suction Velocities should not exceed 8 feet per second. Calculated using Williams and Hazen formula using $C = 150$.

REFERENCES - FRICTION LOSS

WATER IN 100' OF STEEL PIPE

| GPM | Pipe Size 1/2" - Actual Size 0.622 | | | Pipe Size 3/4" - Actual Size 0.824 | | | Pipe Size 1" - Actual Size 1.049 | | | Pipe Size 1-1/4" - Actual Size 1.38 | | | Pipe Size 1-1/2" - Actual Size 1.61 | | |
|-----|------------------------------------|---------------|----------------|------------------------------------|---------------|----------------|----------------------------------|---------------|----------------|-------------------------------------|---------------|----------------|-------------------------------------|---------------|----------------|
| | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) |
| 1 | 2.099 | 1.056 | 0.017 | 0.534 | 0.602 | 0.006 | 0.165 | 0.371 | 0.002 | 0.043 | 0.215 | 0.001 | 0.021 | 0.158 | 0.000 |
| 2 | 7.577 | 2.112 | 0.069 | 1.929 | 1.203 | 0.023 | 0.596 | 0.742 | 0.009 | 0.157 | 0.429 | 0.003 | 0.074 | 0.315 | 0.002 |
| 3 | 16.056 | 3.168 | 0.156 | 4.087 | 1.805 | 0.051 | 1.263 | 1.114 | 0.019 | 0.332 | 0.644 | 0.006 | 0.157 | 0.473 | 0.003 |
| 4 | 27.354 | 4.223 | 0.277 | 6.962 | 2.407 | 0.090 | 2.151 | 1.485 | 0.034 | 0.566 | 0.858 | 0.011 | 0.268 | 0.630 | 0.006 |
| 5 | 41.352 | 5.279 | 0.433 | 10.525 | 3.008 | 0.141 | 3.252 | 1.856 | 0.054 | 0.856 | 1.073 | 0.018 | 0.404 | 0.788 | 0.001 |
| 6 | 57.961 | 6.335 | 0.624 | 14.753 | 3.610 | 0.203 | 4.558 | 2.227 | 0.077 | 1.200 | 1.287 | 0.026 | 0.567 | 0.946 | 0.014 |
| 7 | 77.112 | 7.391 | 0.849 | 19.628 | 4.211 | 0.276 | 6.064 | 2.599 | 0.105 | 1.597 | 1.502 | 0.035 | 0.754 | 1.103 | 0.019 |
| 8 | 98.747 | 8.447 | 1.109 | 25.134 | 4.813 | 0.360 | 7.765 | 2.970 | 0.137 | 2.045 | 1.716 | 0.046 | 0.966 | 1.261 | 0.025 |
| 9 | 122.817 | 9.503 | 1.404 | 31.261 | 5.415 | 0.456 | 9.657 | 3.341 | 0.173 | 2.543 | 1.931 | 0.058 | 1.201 | 1.418 | 0.031 |
| 10 | 149.280 | 10.559 | 1.733 | 37.997 | 6.016 | 0.563 | 11.738 | 3.712 | 0.214 | 3.091 | 2.145 | 0.072 | 1.460 | 1.576 | 0.039 |
| 11 | 178.099 | 11.615 | 2.097 | 45.332 | 6.618 | 0.681 | 14.004 | 4.083 | 0.259 | 3.688 | 2.360 | 0.087 | 1.742 | 1.734 | 0.047 |
| 12 | 209.241 | 12.670 | 2.495 | 53.259 | 7.220 | 0.810 | 16.453 | 4.455 | 0.308 | 4.333 | 2.574 | 0.103 | 2.047 | 1.891 | 0.056 |
| 13 | 242.675 | 13.726 | 2.928 | 61.769 | 7.821 | 0.951 | 19.082 | 4.826 | 0.362 | 5.025 | 2.789 | 0.121 | 2.374 | 2.049 | 0.065 |
| 14 | 278.376 | 14.782 | 3.396 | 70.856 | 8.423 | 1.103 | 21.889 | 5.197 | 0.420 | 5.764 | 3.003 | 0.140 | 2.723 | 2.206 | 0.076 |
| 15 | 316.317 | 15.838 | 3.899 | 80.513 | 9.025 | 1.266 | 24.873 | 5.568 | 0.482 | 6.550 | 3.218 | 0.161 | 3.094 | 2.364 | 0.087 |
| 16 | | | | 90.735 | 9.626 | 1.440 | 28.031 | 5.940 | 0.548 | 7.381 | 3.432 | 0.183 | 3.487 | 2.521 | 0.099 |
| 17 | | | | 101.517 | 10.228 | 1.626 | 31.362 | 6.311 | 0.619 | 8.258 | 3.647 | 0.207 | 3.901 | 2.679 | 0.112 |
| 18 | | | | 112.852 | 10.829 | 1.823 | 34.863 | 6.682 | 0.694 | 9.181 | 3.861 | 0.232 | 4.337 | 2.837 | 0.125 |
| 19 | | | | 124.738 | 11.431 | 2.031 | 38.535 | 7.053 | 0.773 | 10.148 | 4.076 | 0.258 | 4.793 | 2.994 | 0.139 |
| 20 | | | | 137.168 | 12.033 | 2.250 | 42.375 | 7.425 | 0.857 | 11.159 | 4.290 | 0.286 | 5.271 | 3.152 | 0.154 |
| 21 | | | | 150.140 | 12.634 | 2.481 | 46.383 | 7.796 | 0.945 | 12.214 | 4.505 | 0.315 | 5.769 | 3.309 | 0.170 |
| 22 | | | | 163.649 | 13.236 | 2.723 | 50.556 | 8.167 | 1.037 | 13.313 | 4.719 | 0.346 | 6.288 | 3.467 | 0.187 |
| 23 | | | | 177.691 | 13.838 | 2.976 | 54.894 | 8.538 | 1.133 | 14.455 | 4.934 | 0.378 | 6.828 | 3.625 | 0.204 |
| 24 | | | | 192.263 | 14.439 | 3.241 | 59.396 | 8.909 | 1.234 | 15.641 | 5.148 | 0.412 | 7.388 | 3.782 | 0.222 |
| 25 | | | | 207.363 | 15.041 | 3.516 | 64.061 | 9.281 | 1.339 | 16.869 | 5.363 | 0.447 | 7.968 | 3.940 | 0.241 |
| 26 | | | | 222.985 | 15.643 | 3.803 | 68.887 | 9.652 | 1.448 | 18.140 | 5.577 | 0.483 | 8.569 | 4.097 | 0.261 |
| 27 | | | | 239.128 | 16.244 | 4.101 | 73.874 | 10.023 | 1.561 | 19.453 | 5.792 | 0.521 | 9.189 | 4.255 | 0.281 |
| 28 | | | | 255.789 | 16.846 | 4.411 | 79.021 | 10.394 | 1.679 | 20.809 | 6.006 | 0.561 | 9.829 | 4.413 | 0.303 |
| 29 | | | | 272.965 | 17.448 | 4.731 | 84.327 | 10.766 | 1.801 | 22.206 | 6.221 | 0.601 | 10.489 | 4.570 | 0.325 |
| 30 | | | | 290.652 | 18.049 | 5.063 | 89.791 | 11.137 | 1.928 | 23.645 | 6.435 | 0.644 | 11.169 | 4.728 | 0.347 |
| 32 | | | | | | | 101.191 | 11.879 | 2.193 | 26.647 | 6.864 | 0.732 | 12.587 | 5.043 | 0.395 |
| 34 | | | | | | | 113.215 | 12.622 | 2.476 | 29.813 | 7.293 | 0.827 | 14.082 | 5.358 | 0.446 |
| 36 | | | | | | | 125.857 | 13.364 | 2.776 | 33.142 | 7.722 | 0.927 | 15.655 | 5.673 | 0.500 |
| 38 | | | | | | | 139.112 | 14.107 | 3.093 | 36.633 | 8.151 | 1.033 | 17.304 | 5.989 | 0.557 |
| 40 | | | | | | | 152.975 | 14.849 | 3.427 | 40.283 | 8.580 | 1.144 | 19.028 | 6.304 | 0.618 |
| 42 | | | | | | | 167.442 | 15.592 | 3.778 | 44.093 | 9.009 | 1.261 | 20.827 | 6.619 | 0.681 |
| 44 | | | | | | | 182.507 | 16.334 | 4.147 | 48.060 | 9.438 | 1.384 | 22.701 | 6.934 | 0.747 |
| 46 | | | | | | | 198.168 | 17.076 | 4.532 | 52.184 | 9.867 | 1.513 | 24.649 | 7.249 | 0.817 |
| 48 | | | | | | | 214.420 | 17.819 | 4.935 | 56.463 | 10.296 | 1.648 | 26.671 | 7.564 | 0.889 |
| 50 | | | | | | | 231.259 | 18.561 | 5.355 | 60.898 | 10.725 | 1.788 | 28.765 | 7.880 | 0.965 |
| 55 | | | | | | | 275.904 | 20.417 | 6.479 | 72.654 | 11.798 | 2.163 | 34.319 | 8.668 | 1.168 |
| 60 | | | | | | | 324.147 | 22.274 | 7.711 | 85.358 | 12.870 | 2.574 | 40.319 | 9.456 | 1.390 |
| 65 | | | | | | | 375.943 | 24.130 | 9.049 | 98.997 | 13.943 | 3.021 | 46.762 | 10.244 | 1.631 |
| 70 | | | | | | | 431.249 | 25.986 | 10.495 | 113.561 | 15.015 | 3.504 | 53.641 | 11.032 | 1.891 |
| 75 | | | | | | | 490.027 | 27.842 | 12.048 | 129.039 | 16.088 | 4.023 | 60.952 | 11.820 | 2.171 |
| 80 | | | | | | | 552.241 | 29.698 | 13.708 | 145.422 | 17.160 | 4.577 | 68.691 | 12.607 | 2.470 |
| 85 | | | | | | | 617.860 | 31.554 | 15.475 | 162.701 | 18.233 | 5.167 | 76.853 | 13.395 | 2.789 |
| 90 | | | | | | | 686.852 | 33.410 | 17.349 | 180.869 | 19.305 | 5.793 | 85.435 | 14.183 | 3.127 |
| 95 | | | | | | | 759.190 | 35.267 | 19.331 | 199.918 | 20.378 | 6.454 | 94.433 | 14.971 | 3.484 |
| 100 | | | | | | | 834.846 | 37.123 | 21.419 | 219.840 | 21.450 | 7.151 | 103.843 | 15.759 | 3.860 |
| 110 | | | | | | | | | | 262.281 | 23.595 | 8.653 | 123.890 | 17.335 | 4.671 |
| 120 | | | | | | | | | | 308.142 | 25.740 | 10.298 | 145.553 | 18.911 | 5.559 |
| 130 | | | | | | | | | | 357.380 | 27.885 | 12.086 | 168.811 | 20.487 | 6.524 |
| 140 | | | | | | | | | | 409.955 | 30.030 | 14.016 | 193.645 | 22.063 | 7.566 |
| 150 | | | | | | | | | | 465.831 | 32.175 | 16.090 | 220.039 | 23.639 | 8.685 |

NOTES: Suction Velocities should not exceed 8 feet per second.

REFERENCES - FRICTION LOSS






WATER IN 100' OF STEEL PIPE

| GPM | Pipe Size 2" - Actual Size 2.067 | | | Pipe Size 2-1/2" - Actual Size 2.469 | | | Pipe Size 3" - Actual Size 3.068 | | | Pipe Size 3-1/2" - Actual Size 3.548 | | |
|-----|----------------------------------|------------------|-------------------|--------------------------------------|------------------|-------------------|----------------------------------|------------------|-------------------|--------------------------------------|------------------|-------------------|
| | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) | Friction | Vel. (ft/sec) | Vel. Head (ft) |
| 2 | 0.022 | 0.191 | 0.001 | | | | | | | | | |
| 3 | 0.047 | 0.287 | 0.001 | 0.020 | 0.201 | 0.001 | | | | | | |
| 4 | 0.079 | 0.383 | 0.002 | 0.033 | 0.268 | 0.001 | | | | | | |
| 5 | 0.120 | 0.478 | 0.004 | 0.051 | 0.335 | 0.002 | 0.018 | 0.217 | 0.001 | 0.009 | 0.162 | 0.000 |
| 6 | 0.168 | 0.574 | 0.005 | 0.071 | 0.402 | 0.003 | 0.025 | 0.260 | 0.001 | 0.012 | 0.195 | 0.001 |
| 7 | 0.224 | 0.670 | 0.007 | 0.094 | 0.469 | 0.003 | 0.033 | 0.304 | 0.001 | 0.016 | 0.227 | 0.001 |
| 8 | 0.286 | 0.765 | 0.009 | 0.121 | 0.536 | 0.004 | 0.042 | 0.347 | 0.002 | 0.021 | 0.260 | 0.001 |
| 9 | 0.356 | 0.861 | 0.012 | 0.150 | 0.603 | 0.006 | 0.052 | 0.391 | 0.002 | 0.026 | 0.292 | 0.001 |
| 10 | 0.433 | 0.957 | 0.014 | 0.182 | 0.670 | 0.007 | 0.063 | 0.434 | 0.003 | 0.031 | 0.325 | 0.002 |
| 11 | 0.516 | 1.052 | 0.017 | 0.218 | 0.737 | 0.008 | 0.076 | 0.477 | 0.004 | 0.037 | 0.357 | 0.002 |
| 12 | 0.607 | 1.148 | 0.020 | 0.256 | 0.804 | 0.010 | 0.089 | 0.521 | 0.004 | 0.044 | 0.389 | 0.002 |
| 13 | 0.704 | 1.244 | 0.024 | 0.296 | 0.871 | 0.012 | 0.103 | 0.564 | 0.005 | 0.051 | 0.422 | 0.003 |
| 14 | 0.807 | 1.339 | 0.028 | 0.340 | 0.938 | 0.014 | 0.118 | 0.608 | 0.006 | 0.058 | 0.454 | 0.003 |
| 15 | 0.917 | 1.435 | 0.032 | 0.386 | 1.005 | 0.016 | 0.134 | 0.651 | 0.007 | 0.066 | 0.487 | 0.004 |
| 16 | 1.034 | 1.531 | 0.036 | 0.435 | 1.072 | 0.018 | 0.151 | 0.694 | 0.007 | 0.075 | 0.519 | 0.004 |
| 17 | 1.157 | 1.626 | 0.041 | 0.487 | 1.139 | 0.020 | 0.169 | 0.738 | 0.008 | 0.083 | 0.552 | 0.005 |
| 18 | 1.286 | 1.722 | 0.046 | 0.542 | 1.206 | 0.023 | 0.188 | 0.781 | 0.009 | 0.093 | 0.584 | 0.005 |
| 19 | 1.421 | 1.818 | 0.051 | 0.599 | 1.273 | 0.025 | 0.208 | 0.825 | 0.011 | 0.103 | 0.617 | 0.006 |
| 20 | 1.563 | 1.913 | 0.057 | 0.658 | 1.340 | 0.028 | 0.229 | 0.868 | 0.012 | 0.113 | 0.649 | 0.007 |
| 21 | 1.711 | 2.009 | 0.063 | 0.720 | 1.407 | 0.031 | 0.250 | 0.911 | 0.013 | 0.123 | 0.681 | 0.007 |
| 22 | 1.865 | 2.105 | 0.069 | 0.785 | 1.474 | 0.034 | 0.273 | 0.955 | 0.014 | 0.135 | 0.714 | 0.008 |
| 23 | 2.025 | 2.200 | 0.075 | 0.853 | 1.541 | 0.037 | 0.296 | 0.998 | 0.015 | 0.146 | 0.746 | 0.009 |
| 24 | 2.191 | 2.296 | 0.082 | 0.923 | 1.608 | 0.040 | 0.321 | 1.042 | 0.017 | 0.158 | 0.779 | 0.009 |
| 25 | 2.363 | 2.391 | 0.089 | 0.995 | 1.675 | 0.044 | 0.346 | 1.085 | 0.018 | 0.171 | 0.811 | 0.010 |
| 26 | 2.541 | 2.487 | 0.096 | 1.070 | 1.742 | 0.047 | 0.372 | 1.128 | 0.020 | 0.183 | 0.844 | 0.011 |
| 27 | 2.724 | 2.583 | 0.104 | 1.148 | 1.809 | 0.051 | 0.399 | 1.172 | 0.021 | 0.197 | 0.876 | 0.012 |
| 28 | 2.914 | 2.678 | 0.112 | 1.227 | 1.876 | 0.055 | 0.427 | 1.215 | 0.023 | 0.210 | 0.909 | 0.013 |
| 29 | 3.110 | 2.774 | 0.120 | 1.310 | 1.943 | 0.059 | 0.455 | 1.259 | 0.025 | 0.224 | 0.941 | 0.014 |
| 30 | 3.312 | 2.870 | 0.128 | 1.395 | 2.010 | 0.063 | 0.485 | 1.302 | 0.026 | 0.239 | 0.974 | 0.015 |
| 32 | 3.732 | 3.061 | 0.146 | 1.572 | 2.144 | 0.071 | 0.546 | 1.389 | 0.030 | 0.269 | 1.038 | 0.017 |
| 34 | 4.175 | 3.252 | 0.164 | 1.759 | 2.278 | 0.081 | 0.611 | 1.476 | 0.034 | 0.301 | 1.103 | 0.019 |
| 36 | 4.642 | 3.444 | 0.184 | 1.955 | 2.412 | 0.090 | 0.679 | 1.562 | 0.038 | 0.335 | 1.168 | 0.021 |
| 38 | 5.130 | 3.635 | 0.205 | 2.161 | 2.546 | 0.101 | 0.751 | 1.649 | 0.042 | 0.370 | 1.233 | 0.024 |
| 40 | 5.642 | 3.826 | 0.228 | 2.376 | 2.680 | 0.112 | 0.826 | 1.736 | 0.047 | 0.407 | 1.298 | 0.026 |
| 42 | 6.175 | 4.018 | 0.251 | 2.601 | 2.814 | 0.123 | 0.904 | 1.823 | 0.052 | 0.446 | 1.363 | 0.029 |
| 44 | 6.731 | 4.209 | 0.275 | 2.835 | 2.948 | 0.135 | 0.985 | 1.910 | 0.057 | 0.486 | 1.428 | 0.032 |
| 46 | 7.308 | 4.400 | 0.301 | 3.078 | 3.083 | 0.148 | 1.070 | 1.996 | 0.062 | 0.527 | 1.493 | 0.035 |
| 48 | 7.908 | 4.592 | 0.328 | 3.331 | 3.217 | 0.161 | 1.158 | 2.083 | 0.067 | 0.571 | 1.558 | 0.038 |
| 50 | 8.529 | 4.783 | 0.356 | 3.592 | 3.351 | 0.174 | 1.248 | 2.170 | 0.073 | 0.616 | 1.623 | 0.041 |
| 55 | 10.175 | 5.261 | 0.430 | 4.286 | 3.686 | 0.211 | 1.490 | 2.387 | 0.089 | 0.734 | 1.785 | 0.050 |
| 60 | 11.955 | 5.740 | 0.512 | 5.035 | 4.021 | 0.251 | 1.750 | 2.604 | 0.105 | 0.863 | 1.947 | 0.059 |
| 65 | 13.865 | 6.218 | 0.601 | 5.840 | 4.356 | 0.295 | 2.030 | 2.821 | 0.124 | 1.001 | 2.109 | 0.069 |
| 70 | 15.905 | 6.696 | 0.697 | 6.699 | 4.691 | 0.342 | 2.328 | 3.038 | 0.143 | 1.148 | 2.272 | 0.080 |
| 75 | 18.072 | 7.174 | 0.800 | 7.612 | 5.026 | 0.393 | 2.646 | 3.255 | 0.165 | 1.304 | 2.434 | 0.092 |
| 80 | 20.367 | 7.653 | 0.910 | 8.578 | 5.361 | 0.447 | 2.981 | 3.472 | 0.187 | 1.470 | 2.596 | 0.105 |
| 85 | 22.787 | 8.131 | 1.028 | 9.598 | 5.696 | 0.504 | 3.336 | 3.689 | 0.212 | 1.644 | 2.758 | 0.118 |
| 90 | 25.331 | 8.609 | 1.152 | 10.669 | 6.031 | 0.565 | 3.708 | 3.906 | 0.237 | 1.828 | 2.921 | 0.133 |
| 95 | 27.999 | 9.088 | 1.284 | 11.793 | 6.366 | 0.630 | 4.099 | 4.123 | 0.264 | 2.021 | 3.083 | 0.148 |
| 100 | 30.789 | 9.566 | 1.422 | 12.968 | 6.701 | 0.698 | 4.507 | 4.340 | 0.293 | 2.222 | 3.245 | 0.164 |
| 110 | 36.733 | 10.523 | 1.721 | 15.472 | 7.371 | 0.845 | 5.377 | 4.774 | 0.354 | 2.651 | 3.570 | 0.198 |
| 120 | 43.156 | 11.479 | 2.048 | 18.177 | 8.041 | 1.005 | 6.317 | 5.208 | 0.422 | 3.114 | 3.894 | 0.236 |
| 130 | 50.052 | 12.436 | 2.404 | 21.081 | 8.711 | 1.180 | 7.327 | 5.642 | 0.495 | 3.612 | 4.219 | 0.277 |
| 140 | 57.416 | 13.392 | 2.788 | 24.183 | 9.382 | 1.368 | 8.405 | 6.076 | 0.574 | 4.144 | 4.543 | 0.321 |
| 150 | 65.241 | 14.349 | 3.200 | 27.479 | 10.052 | 1.570 | 9.550 | 6.510 | 0.659 | 4.708 | 4.868 | 0.368 |



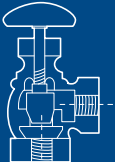

NOTES: Suction Velocities should not exceed 8 feet per second.

REFERENCES - PIPE FITTINGS

CONNECTIONS

| Friction losses in terms of equivalent lengths of standard pipe | | | | | |
|---|---|---|---|---|---|
| Pipe Size | Standard 90° Elbow | Long Radius Elbow | 45° Elbow | Tee | Return Bend |
| |  |  |  |  |  |
| 1/2" | 1.5 | 1.1 | 0.77 | 3.4 | 3.8 |
| 3/4" | 2.2 | 1.4 | 1 | 4.5 | 5 |
| 1" | 2.7 | 1.7 | 1.3 | 5.8 | 6.1 |
| 1-1/4" | 3.7 | 2.4 | 1.6 | 7.8 | 8.5 |
| 1-1/2" | 4.3 | 2.8 | 2 | 9 | 10 |
| 2" | 5.5 | 3.5 | 2.5 | 11 | 13 |
| 2-1/2" | 6.5 | 4.2 | 3 | 14 | 15 |
| 3" | 8.1 | 5.1 | 3.8 | 17 | 18 |
| 3-1/2" | 9.5 | 6 | 4.4 | 19 | 21 |
| 4" | 11 | 7 | 5 | 22 | 24 |
| 4-1/2" | 12 | 7.9 | 5.6 | 24 | 27 |
| 5" | 14 | 8.9 | 6.1 | 27 | 31 |
| 6" | 16 | 11 | 7.7 | 33 | 37 |

VALVES

| Friction losses in terms of equivalent lengths of standard pipe | | | | |
|---|---|---|--|---|
| Pipe Size | Gate Valve Open | Globe Valve Open | Angle Valve Open | Swing Check Valve |
| |  |  |  |  |
| 1/2" | 0.35 | 16 | 8.4 | 4 |
| 3/4" | 0.47 | 22 | 12 | 5 |
| 1" | 0.6 | 27 | 15 | 7 |
| 1-1/4" | 0.8 | 37 | 18 | 9 |
| 1-1/2" | 0.95 | 44 | 22 | 11 |
| 2" | 1.2 | 57 | 28 | 13 |
| 2-1/2" | 1.4 | 66 | 33 | 16 |
| 3" | 1.7 | 85 | 42 | 20 |
| 3-1/2" | 2 | 99 | 50 | |
| 4" | 2.3 | 110 | 58 | 26 |
| 4-1/2" | 2.6 | 130 | 61 | |
| 5" | 2.9 | 140 | 70 | 33 |
| 6" | 3.5 | 160 | 83 | 39 |

REFERENCES - PRESSURE LOSS

SWING CHECK VALVES

| Flow GPM | Pressure Loss (PSI)/Valve Size | | | | | | | |
|----------|--------------------------------|------|-----|--------|--------|-----|--------|-----|
| | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| 2 | 0.2 | | | | | | | |
| 3 | .05 | | | | | | | |
| 6 | 1.0 | 0.3 | | | | | | |
| 8 | 1.7 | 0.5 | | | | | | |
| 10 | 2.6 | 0.8 | 0.3 | | | | | |
| 12 | 3.6 | 1.1 | 0.5 | | | | | |
| 14 | 4.8 | 1.5 | 0.6 | | | | | |
| 16 | | 2.0 | 0.9 | | | | | |
| 18 | | 2.4 | 1.0 | | | | | |
| 20 | | 3.0 | 1.2 | 0.4 | | | | |
| 22 | | 3.5 | 1.4 | 0.5 | | | | |
| 24 | | 4.1 | 1.7 | 0.6 | | | | |
| 26 | | 4.8 | 2.0 | 0.7 | 0.4 | | | |
| 28 | | | 2.2 | 0.8 | 0.5 | | | |
| 30 | | | 2.5 | 0.9 | 0.5 | | | |
| 32 | | | 2.9 | 1.1 | 0.6 | | | |
| 34 | | | 3.2 | 1.2 | 0.6 | | | |
| 36 | | | 3.6 | 1.3 | 0.7 | | | |
| 38 | | | 3.9 | 1.5 | 0.8 | | | |
| 40 | | | 4.3 | 1.6 | 0.8 | 0.3 | | |
| 42 | | | 4.7 | 1.7 | 0.9 | 0.3 | | |
| 44 | | | | 1.9 | 1.0 | 0.4 | | |
| 46 | | | | 2.1 | 1.1 | 0.4 | | |
| 48 | | | | 2.2 | 1.2 | 0.5 | | |
| 50 | | | | 2.4 | 1.3 | 0.5 | | |
| 55 | | | | 2.9 | 1.5 | 0.6 | | |
| 60 | | | | 3.4 | 1.8 | 0.7 | | |
| 65 | | | | 3.9 | 2.0 | 0.8 | | |
| 70 | | | | 4.5 | 2.4 | 0.9 | 0.4 | |
| 75 | | | | | 2.7 | 1.0 | 0.5 | |
| 80 | | | | | 3.0 | 1.2 | 0.6 | |
| 90 | | | | | 3.7 | 1.5 | 0.7 | |
| 100 | | | | | 4.6 | 1.8 | 0.9 | 0.4 |
| 120 | | | | | | 2.5 | 1.2 | 0.5 |
| 140 | | | | | | 3.3 | 1.6 | 0.7 |

BRONZE GATE VALVES

| Flow GPM | Pressure Loss (PSI)/Valve Size | | | | | | | | |
|----------|--------------------------------|------|-----|--------|--------|-----|--------|-----|-----|
| | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" |
| 1 | | | | | | | | | |
| 2 | .01 | | | | | | | | |
| 5 | .06 | .02 | | | | | | | |
| 8 | .16 | .05 | .02 | | | | | | |
| 10 | .24 | .08 | .03 | .01 | | | | | |
| 15 | | .17 | .06 | .02 | .01 | | | | |
| 20 | | .31 | .11 | .03 | .02 | | | | |
| 30 | | | .24 | .07 | .04 | .01 | | | |
| 40 | | | .43 | .13 | .07 | .02 | .01 | | |
| 50 | | | .67 | .21 | .11 | .04 | .02 | | |
| 60 | | | | .30 | .15 | .05 | .03 | .01 | |
| 80 | | | | .54 | .28 | .10 | .05 | .02 | |
| 100 | | | | | .43 | .15 | .07 | .03 | |
| 120 | | | | | .62 | .22 | .10 | .04 | .02 |
| 140 | | | | | .85 | .30 | .14 | .06 | |
| 160 | | | | | | .40 | .18 | .07 | .03 |

REFERENCES - PRESSURE LOSS

WATER METERS AWWA STANDARD

| Flow GPM | Pressure Loss (Normal Size) | | | | | | |
|----------|-----------------------------|------|------|--------|------|-----|-----|
| | 5/8" | 3/4" | 1" | 1-1/2" | 2" | 3" | 4" |
| 1 | 0.2 | 0.1 | | | | | |
| 2 | 0.3 | 0.2 | | | | | |
| 3 | 0.4 | 0.3 | | | | | |
| 4 | 0.6 | 0.5 | 0.1 | | | | |
| 5 | 0.9 | 0.6 | 0.2 | | | | |
| 6 | 1.3 | 0.7 | 0.3 | | | | |
| 7 | 1.8 | 0.8 | 0.4 | | | | |
| 8 | 2.3 | 1.0 | 0.5 | | | | |
| 9 | 3.0 | 1.3 | 0.6 | | | | |
| 10 | 3.7 | 1.6 | 0.7 | | | | |
| 11 | 4.4 | 1.9 | 0.8 | | | | |
| 12 | 5.1 | 2.2 | 0.9 | | | | |
| 13 | 6.1 | 2.6 | 1.0 | | | | |
| 14 | 7.2 | 3.1 | 1.1 | | | | |
| 15 | 8.3 | 3.6 | 1.2 | | | | |
| 16 | 9.4 | 4.1 | 1.4 | 0.4 | | | |
| 17 | 10.7 | 4.6 | 1.6 | 0.5 | | | |
| 18 | 12.0 | 5.2 | 1.8 | 0.6 | | | |
| 19 | 13.4 | 5.8 | 2.0 | 0.7 | | | |
| 20 | 15.0 | 6.5 | 2.2 | 0.8 | | | |
| 22 | | 7.9 | 2.8 | 1.0 | | | |
| 24 | | 9.5 | 3.4 | 1.2 | | | |
| 26 | | 11.2 | 4.0 | 1.4 | | | |
| 28 | | 13.0 | 4.6 | 1.6 | | | |
| 30 | | 15.0 | 5.3 | 1.8 | 0.7 | | |
| 32 | | | 6.0 | 2.1 | 0.8 | | |
| 34 | | | 6.9 | 2.4 | 0.9 | | |
| 36 | | | 7.8 | 2.7 | 1.0 | | |
| 38 | | | 8.7 | 3.0 | 1.2 | | |
| 40 | | | 9.6 | 3.3 | 1.3 | | |
| 42 | | | 10.6 | 3.6 | 1.4 | | |
| 44 | | | 11.7 | 3.9 | 1.5 | | |
| 46 | | | 12.8 | 4.2 | 1.6 | | |
| 48 | | | 13.9 | 4.5 | 1.7 | | |
| 50 | | | 15.0 | 4.9 | 1.9 | | |
| 52 | | | | 5.3 | 2.1 | | |
| 54 | | | | 5.7 | 2.2 | | |
| 56 | | | | 6.2 | 2.3 | | |
| 58 | | | | 6.7 | 2.5 | | |
| 60 | | | | 7.2 | 2.7 | 1.0 | |
| 65 | | | | 8.3 | 3.2 | 1.1 | |
| 70 | | | | 9.8 | 3.7 | 1.3 | |
| 75 | | | | 11.3 | 4.3 | 1.5 | |
| 80 | | | | 12.8 | 4.9 | 1.6 | 0.7 |
| 90 | | | | 16.1 | 6.2 | 2.0 | 0.8 |
| 100 | | | | 20.0 | 7.8 | 2.5 | 0.9 |
| 110 | | | | | 9.5 | 2.9 | 1.0 |
| 120 | | | | | 11.3 | 3.4 | 1.2 |
| 130 | | | | | 13.0 | 3.9 | 1.4 |
| 140 | | | | | 15.1 | 4.5 | 1.6 |
| 150 | | | | | 17.3 | 5.1 | 1.8 |

REFERENCES - PRESSURE TANK SIZING

PROPER SYSTEM LIFE MINIMUM TANK VOLUMES

| Pump Capacity | | Minimum Drawdown | Total Tank Volume (Gallons) | | | | | | | | |
|---------------|-----|------------------|-----------------------------|-----|-----|-------|-----|-----|-------|-----|-----|
| | | | Switch Setting (PSI) | | | | | | | | |
| | | | 20-40 | | | 30-50 | | | 40-60 | | |
| GPH | GPM | Gallons | A | B | C | A | B | C | A | B | C |
| 240 | 4 | 4 | 10 | 15 | 25 | 15 | 15 | 40 | 15 | 15 | 55 |
| 300 | 5 | 5 | 15 | 15 | 30 | 15 | 20 | 50 | 20 | 20 | 70 |
| 360 | 6 | 6 | 15 | 20 | 40 | 20 | 20 | 60 | 20 | 25 | 85 |
| 420 | 7 | 7 | 20 | 20 | 45 | 35 | 25 | 70 | 25 | 30 | 100 |
| 480 | 8 | 8 | 20 | 25 | 50 | 35 | 25 | 80 | 30 | 30 | 110 |
| 540 | 9 | 9 | 25 | 25 | 60 | 30 | 30 | 90 | 35 | 35 | 125 |
| 600 | 10 | 10 | 30 | 30 | 65 | 30 | 35 | 100 | 40 | 40 | 140 |
| 660 | 11 | 12 | 35 | 35 | 80 | 40 | 40 | 120 | 45 | 45 | 165 |
| 720 | 12 | 13 | 35 | 40 | 85 | 40 | 45 | 130 | 50 | 50 | 180 |
| 780 | 13 | 15 | 40 | 45 | 100 | 50 | 50 | 150 | 55 | 60 | 210 |
| 840 | 14 | 17 | 45 | 50 | 110 | 55 | 55 | 170 | 65 | 65 | 235 |
| 900 | 15 | 19 | 50 | 55 | 125 | 60 | 65 | 190 | 70 | 75 | 265 |
| 960 | 16 | 20 | 55 | 55 | 160 | 65 | 65 | 200 | 75 | 75 | 280 |
| 1020 | 17 | 23 | 6 | 65 | 150 | 75 | 75 | 230 | 85 | 90 | 320 |
| 1080 | 18 | 25 | 70 | 70 | 160 | 80 | 85 | 250 | 95 | 95 | 350 |
| 1140 | 19 | 27 | 75 | 75 | 175 | 85 | 90 | 270 | 100 | 105 | 375 |
| 1200 | 20 | 30 | 80 | 85 | 195 | 95 | 100 | 300 | 110 | 115 | 415 |
| 1260 | 21 | 33 | 90 | 90 | 215 | 105 | 110 | 330 | 125 | 125 | 460 |
| 1320 | 22 | 36 | 100 | 100 | 235 | 115 | 120 | 360 | 135 | 135 | 500 |
| 1380 | 23 | 38 | 105 | 105 | 345 | 125 | 125 | 380 | 140 | 145 | 530 |
| 1440 | 24 | 41 | 110 | 115 | 365 | 135 | 135 | 410 | 155 | 155 | 570 |
| 1500 | 25 | 44 | 120 | 120 | 385 | 140 | 145 | 440 | 165 | 165 | 610 |
| 1560 | 26 | 47 | 130 | 130 | 305 | 150 | 155 | 470 | 175 | 180 | 655 |
| 1620 | 27 | 50 | 135 | 140 | 325 | 160 | 165 | 500 | 185 | 190 | 700 |
| 1680 | 28 | 53 | 145 | 145 | 345 | 170 | 175 | 530 | 200 | 200 | 735 |
| 1740 | 29 | 57 | 155 | 160 | 370 | 185 | 185 | 570 | 215 | 215 | 790 |
| 1800 | 30 | 60 | 165 | 165 | 390 | 195 | 195 | 600 | 225 | 225 | 835 |

NOTES: A = Bladder or Diaphragm Tank Design; B = Floating Wafer Tank Design; C = Plain Steel Tank Design

REFERENCES - REFERENCE TABLES

EQUIVALENT VALUES OF PRESSURE

| Inches of Mercury | Feet of Water | PSI |
|-------------------|---------------|--------|
| 1 | 1.13 | 0.49 |
| 2 | 2.26 | 0.98 |
| 3 | 3.39 | 1.47 |
| 4 | 4.52 | 1.95 |
| 5 | 5.65 | 2.44 |
| 6 | 6.78 | 2.93 |
| 7 | 7.91 | 3.42 |
| 8 | 9.04 | 3.91 |
| 9 | 10.17 | 4.4 |
| 10 | 11.3 | 4.89 |
| 11 | 12.45 | 5.39 |
| 12 | 13.57 | 5.87 |
| 13 | 14.7 | 6.37 |
| 14 | 15.82 | 6.86 |
| 15 | 16.96 | 7.35 |
| 16 | 18.09 | 7.84 |
| 17 | 19.22 | 8.33 |
| 18 | 20.35 | 8.82 |
| 19 | 21.75 | 9.31 |
| 20 | 22.6 | 9.8 |
| 21 | 23.78 | 10.3 |
| 22 | 24.88 | 10.8 |
| 23 | 26 | 11.28 |
| 24 | 27.15 | 11.75 |
| 25 | 26.26 | 12.25 |
| 26 | 29.4 | 12.73 |
| 27 | 30.52 | 13.23 |
| 28 | 31.65 | 13.73 |
| 29 | 32.8 | 14.22 |
| 29.929 | 33.947 | 14.697 |

PROPERTIES OF WATER

| Water Temperature (°F) | Water Pressure (ft) |
|------------------------|---------------------|
| 60 | 0.59 |
| 70 | 0.84 |
| 80 | 1.17 |
| 90 | 1.61 |
| 100 | 2.19 |
| 110 | 2.94 |
| 120 | 3.91 |
| 130 | 5.14 |
| 140 | 6.67 |
| 150 | 8.58 |
| 160 | 10.9 |
| 170 | 13.8 |
| 180 | 17.3 |
| 190 | 21.6 |
| 200 | 26.6 |
| 210 | 32.6 |
| 212 | 34 |

ATMOSPHERIC PRESSURE AT VARIOUS ELEVATIONS

| Altitude Feet Above Sea Level | Atmospheric Pressure | | |
|----------------------------------|------------------------------|---------------|-------------------|
| | Pounds per Square Inch (PSI) | Feet of Water | Inches of Mercury |
| Sea Level | 14.7 | 33.8 | 29.9 |
| 500 | 14.4 | 33.3 | 29.4 |
| 1000 | 14.2 | 32.6 | 28.8 |
| 2000 | 13.7 | 31.4 | 27.8 |
| 3000 | 13.2 | 30.3 | 26.8 |
| 4000 | 12.7 | 29.2 | 25.8 |
| 5000 | 12.2 | 28.2 | 24.9 |
| 6000 | 11.8 | 27.1 | 24 |
| 7000 | 11.3 | 26.1 | 23.1 |
| 8000 | 10.9 | 25.1 | 22.2 |
| 9000 | 10.5 | 24.2 | 21.4 |
| 10000 | 10.1 | 23.2 | 20.6 |

REFERENCES - CONVERSIONS

HEAD

| To Convert From | To | Multiply By |
|----------------------|-------------------|-------------|
| PSI | Feet | 2.31 |
| PSI | Inches of Mercury | 2.04 |
| Feet | PSI | 0.433 |
| Feet | Meters | 0.305 |
| Feet | Inches of Mercury | 0.885 |
| Inches of Mercury | Feet of Water | 1.132 |
| Meters | Feet | 3.28 |
| Kilograms per sq. in | PSI | 14.22 |
| ATM | PSI | 14.7 |
| ATM | Feet of Water | 34 |
| ATM | Meters of Water | 10.35 |

VOLUME

| To Convert From | To | Multiply By |
|-----------------|--------------|-------------|
| Gallons | Liters | 3.785 |
| Gallons | Cubic Inches | 231 |
| Gallons | Cubic Feet | 0.137 |
| Gallons | Cubic Meters | 0.004 |
| Liters | Gallons | 0.264 |
| Barrel (Oil) | Gallons | 42 |
| Cubic Feet | Gallons | 7.48 |
| Cubic Feet | Cubic Meters | 0.028 |
| Acre Foot | Cubic Feet | 43560 |
| Acre Foot | Gallons | 325829 |
| Acre Inch | Cubic Feet | 3630 |
| Acre Inch | Gallons | 27100 |

CAPACITY

| To Convert From | To | Multiply By |
|--|--------------------|-------------|
| Gallons Per Minute | Liters/Sec. | 0.063 |
| Gallons Per Minute | Liters/Hr. | 227.1 |
| Gallons Per Minute | Cubic Meters/Hr. | 0.227 |
| Gallons Per Minute | Cubic Feet/Sec. | 0.002 |
| Gallons Per Minute | Pounds Per Hour | 500 |
| Cubic Meters/Hr. | Gallons Per Minute | 4.402 |
| Cubic Meters/Hr. | Liters/Sec. | 0.278 |
| Cubic Feet/Sec. | Gallons Per Minute | 448.831 |
| Acre Foot | Gallons | 325.85 |
| Acre Foot per Day | Gallons Per Minute | 227 |
| Acre Inch per Hour | Gallons Per Minute | 454 |
| Liter per Second | Gallons Per Minute | 15.85 |
| Miner's Inch (ID,KS,NE, NM,ND,SD,UT,WA) | Gallons Per Minute | 9 |
| Miner's Inch (AZ, CA, MT, NV, OR) | Gallons Per Minute | 11.22 |

NOTES: 1,000,000 US gal./day = 695 US gal./minute

HORSEPOWER

| To Convert From | To | Multiply By |
|-----------------|-------------------|-------------|
| hp | Kilowatts | 0.746 |
| hp | Ft lbs per minute | 33000 |
| hp | Ft lbs per second | 550 |
| Kilowatts | hp | 1.341 |

LENGTH

| To Convert From | To | Multiply By |
|-----------------|-------------|-------------|
| Inches | Centimeters | 2.54 |
| Meters | Feet | 3.28 |
| Miles | Feet | 5280 |
| Rods | Feet | 16.5 |

WEIGHT

| To Convert From | To | Multiply By |
|---------------------|--------|-------------|
| Gallons | Pounds | 8.33 |
| Cubic Feet of Water | Pounds | 62.35 |
| Kilograms | Pounds | 2.2 |

TEMPERATURE

| To Convert From | To | Multiply By |
|-----------------|------------|--------------------------------------|
| Fahrenheit | Celsius | $5/9 \times (^{\circ}\text{F} - 32)$ |
| Celsius | Fahrenheit | $9/5 \times (^{\circ}\text{C} + 32)$ |

REFERENCES - 2- OR 3-WIRE CABLE, 60 HZ

SERVICE ENTRANCE TO MOTOR MAXIMUM LENGTH

| Motor Rating | | | 60 °C Insulation - AWG Copper Wire Size (ft) | | | | | | | | | | | | |
|--------------|-----|-----|--|-----|------|------|------|------|------|------|------|------|------|------|------|
| Volts | HP | kW | 14 | 12 | 10 | 8 | 6 | 4 | 3 | 2 | 1 | 0 | 00 | 000 | 0000 |
| 115 | 1/2 | .37 | 100 | 160 | 250 | 390 | 620 | 960 | 1190 | 1460 | 1780 | 2160 | 2630 | 3140 | 3770 |
| | 1/2 | .37 | 400 | 650 | 1020 | 1610 | 2510 | 3880 | 4810 | 5880 | 7170 | 8720 | | | |
| | 3/4 | .55 | 300 | 480 | 760 | 1200 | 1870 | 2890 | 3580 | 4370 | 5330 | 6470 | 7870 | | |
| | 1 | .75 | 250 | 400 | 630 | 990 | 1540 | 2380 | 2960 | 3610 | 4410 | 5360 | 6520 | | |
| | 1.5 | 1.1 | 190 | 310 | 480 | 770 | 1200 | 1870 | 2320 | 2850 | 3500 | 4280 | 5240 | | |
| | 2 | 1.5 | 150 | 250 | 390 | 620 | 970 | 1530 | 1910 | 2360 | 2930 | 3620 | 4480 | | |
| | 3 | 2.2 | 120 | 190 | 300 | 470 | 750 | 1190 | 1490 | 1850 | 2320 | 2890 | 3610 | | |
| | 5 | 3.7 | 0 | 0 | 180 | 280 | 450 | 710 | 890 | 1110 | 1390 | 1740 | 2170 | 2680 | |
| | 7.5 | 5.5 | 0 | 0 | 0 | 200 | 310 | 490 | 610 | 750 | 930 | 1140 | 1410 | 1720 | |
| | 10 | 7.5 | 0 | 0 | 0 | 0 | 250 | 390 | 490 | 600 | 750 | 930 | 1160 | 1430 | 1760 |
| 230 | 15 | 11 | 0 | 0 | 0 | 0 | 170 | 270 | 340 | 430 | 530 | 660 | 820 | 1020 | 1260 |
| | 1/2 | .37 | 100 | 160 | 250 | 390 | 620 | 960 | 1190 | 1460 | 1780 | 2160 | 2630 | 3140 | 3770 |
| | 1/2 | .37 | 400 | 650 | 1020 | 1610 | 2510 | 3880 | 4810 | 5880 | 7170 | 8720 | | | |
| | 3/4 | .55 | 300 | 480 | 760 | 1200 | 1870 | 2890 | 3580 | 4370 | 5330 | 6470 | 7870 | 9380 | |
| | 1 | .75 | 250 | 400 | 630 | 990 | 1540 | 2380 | 2960 | 3610 | 4410 | 5360 | 6520 | 7780 | 9350 |
| | 1.5 | 1.1 | 190 | 310 | 480 | 770 | 1200 | 1870 | 2320 | 2850 | 3500 | 4280 | 5240 | 6300 | 7620 |
| | 2 | 1.5 | 150 | 250 | 390 | 620 | 970 | 1530 | 1910 | 2360 | 2930 | 3620 | 4480 | 5470 | 6700 |
| | 3 | 2.2 | 120 | 190 | 300 | 470 | 750 | 1190 | 1490 | 1850 | 2320 | 2890 | 3610 | 4470 | 5550 |
| | 5 | 3.7 | 0 | 110 | 180 | 280 | 450 | 710 | 890 | 1110 | 1390 | 1740 | 2170 | 2680 | 3330 |
| | 7.5 | 5.5 | 0 | 0 | 120 | 200 | 310 | 490 | 610 | 750 | 930 | 1140 | 1410 | 1720 | 2100 |
| | 10 | 7.5 | 0 | 0 | 0 | 160 | 250 | 390 | 490 | 600 | 750 | 930 | 1160 | 1430 | 1760 |
| | 15 | 11 | 0 | 0 | 0 | 0 | 170 | 270 | 340 | 430 | 530 | 660 | 820 | 1020 | 1260 |

1 Foot = .3048 Meter

Lengths in **BOLD** only meet the US National Electrical Code ampacity requirements for individual conductors 60 °C or 75 °C in free air or water, not in magnetic enclosures, conduit or direct buried. Lengths NOT in bold meet the NEC ampacity requirements for either individual conductors or jacketed 60 °C or 75 °C cable and can be in conduit or direct-buried. Flat molded and web/ribbon cable are considered jacketed cable. If any other cable is used, the NEC and local codes should be observed.

Cable lengths allow for a 5% voltage drop running at maximum nameplate amperes. If 3% voltage drop is desired, multiply lengths by 0.6 to get maximum cable length. The portion of the total cable length, which is between the supply and single-phase control box with a line contactor, should not exceed 25% of total maximum allowable to ensure reliable contactor operation. Single-phase control boxes without line contactors may be connected at any point in the total cable length.

Values are based on copper wire. If aluminum wire is used, it must be two sizes larger than copper wire and oxidation inhibitors must be used on connections.

EXAMPLE: #12 copper wire = #10 aluminum wire. Contact Franklin Electric for 90 °C cable lengths.

WARRANTY INFORMATION

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- f. With respect to motors and pumps, the following conditions automatically void this limited warranty:
 1. Mud or sand deposits which indicate that the motor has been submerged in mud or sand.
 2. Physical damage as evidenced by bent shaft, broken or chipped castings, or broken or bent thrust parts.
 3. Sand damage as indicated by abrasive wear of motor seals or splines.
 4. Lightning damage (often referred to as high voltage surge damage).
 5. Electrical failures due to the use of non-approved overload protection.
 6. Unauthorized disassembly.

WARRANTY INFORMATION

LOST OR DAMAGED GOODS

Every carrier used by Franklin Electric, Inc. is required to verify and sign for the condition of and the number of pieces that are released to them for delivery. Our control and responsibility for any shipment ceases when the carrier signs the Bill of Lading. When you sign the Bill of Lading, you legally assume responsibility of the shipment being delivered. Please, thoroughly inspect each shipment immediately upon arrival.

If cartons, packages, or crates are received in short or damaged condition, it is important that you notify the driver and insist on a notation of the loss or damage across the face of the freight bill. Failure to do this could negate any opportunity you have to file a claim. Claims for short or damaged material must be filed in writing with the carrier immediately after delivery.

If concealed loss or damage is discovered, notify the carrier at once and request an inspection. It is also important that you do not discard the shipping carton or container. A concealed damage report should be made within ten (10) days of delivery of the shipment. The carrier's agent will make an inspection, and usually will grant a concealed damage notation. If you give the carrier a clear receipt for the goods that have been damaged in transit, you do so at your own risk and expense.

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NOTES

