

HCP
PUMPS
America



2019 General Catalog

professionalism • innovation • service • commitment

2019 General Catalog

Pumps

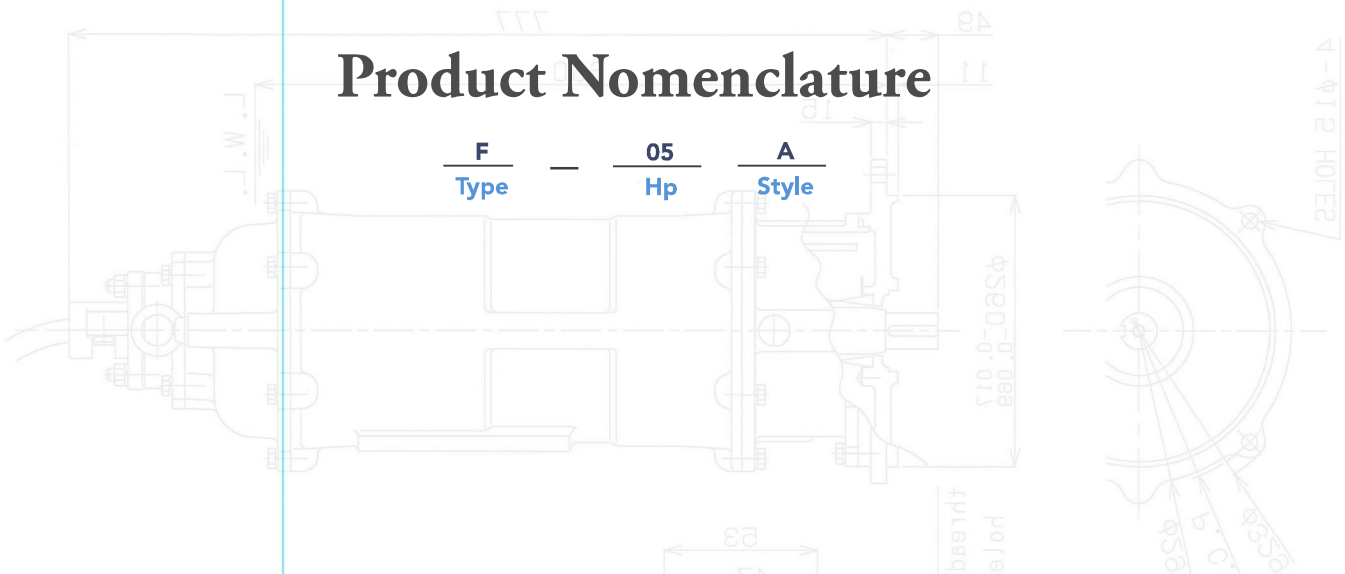
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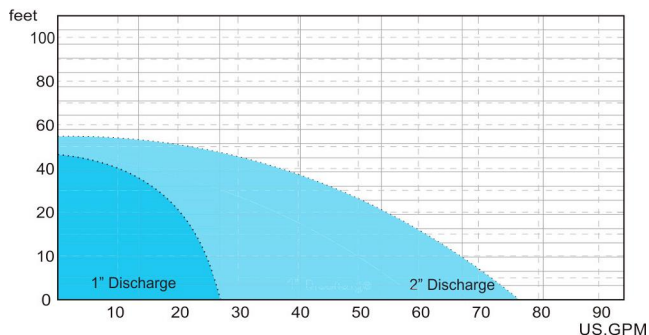
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Product Nomenclature

F **05** **A**
Type Hp Style



GDR • GDS Curves



GDS Model



GDR Model

| Model | HP | Dis. | Ø | Head | Flow |
|----------------|-----|--------|---|------|------|
| GDR-400 | 0.5 | 1 • 2" | 1 | 46 | 26 |
| GDS-400 | 0.5 | 2" | 1 | 40 | 60 |
| GDS-750 | 1 | 2" | 1 | 54 | 76 |

| | Discharge | 1" • 2" |
|-------------|--|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Dewatering 33 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B IP68 Auto-Cut Ball Type Double Mechanical Seals Vortex |

| | Material |
|---|--|
| Upper Cover Motor Frame Shaft End Stainer Mechanical Seal | ADC12 ADC12 SUS410 SUS304 Upper: Carbon/Ceramic Lower: Silicon/Silicon |
| Casing Impeller Cable | Synthetic rubber Urethane Rubber + SPCC VCT or H07RN-7 or SJOW/SOW |
| Optional | Class F Motor • 1 & 2" NPT Discharges • 2" Hose Barb Discharge |

GDS Features

- Designed for the construction industry
- Lightweight, portable, and durable
- Motor frame & mechanical seal bracket are made of aluminum alloy
- Provides extra water cooling to motor
- Features all new design with exchangeable discharges (vertical & horizontal orientations)
- Equipped with an auto-cut motor protector
- Automatic version available with built-in float switch to turn pump on and off
- Standard discharge: 2" LOT2-74

Applications

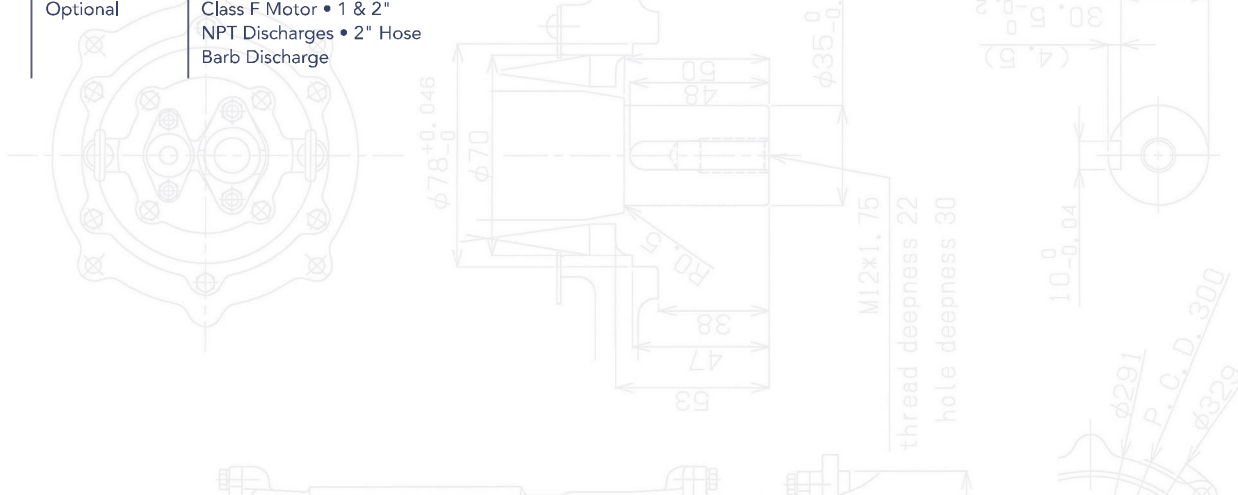
- Civil engineering, dewatering tunnels and ground works, and use in storm water series
- For use by contractors, installers, and service industries

GDR Features

- Water cooling motor with rubber suction pads for residential removal as low as 1 mm (0.39"). Starts up at levels of 5mm.
- Designed to remove water from flat surfaces
- Equipped with an auto-cut motor protector and water-cooling motor
- Impeller & hydraulic components made of durable urethane rubber
- Standard discharge: 1" LOT1-74

Applications

- Basement/pond/pool water removal
- Residential & commercial



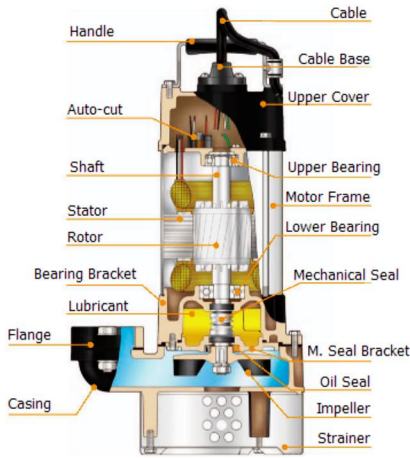
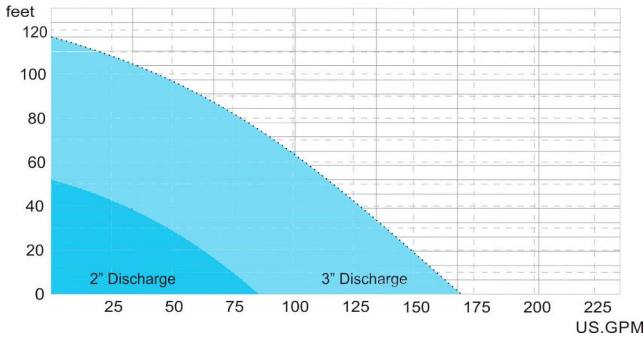
All dimensions in mm

A Series

Submersible Dewatering Pumps

02

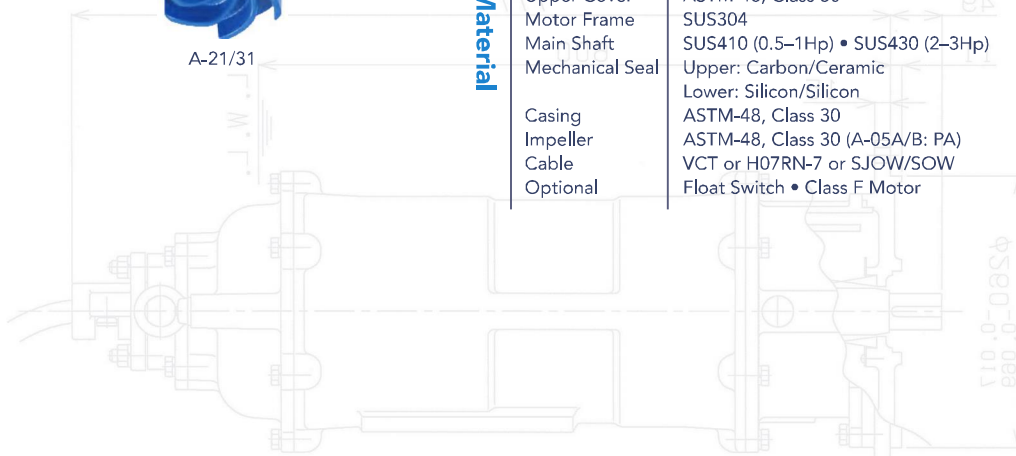
A Series Curves



A-05A/B



A-21/31



| Model | HP | Dis. | Ø | Head | Flow | Solids |
|-------|-----|------|-----|------|------|--------|
| A-05A | 0.5 | 2" | 1/3 | 40 | 58 | 0.25" |
| A-05B | 0.5 | 2" | 1/3 | 41 | 59 | 0.25" |
| A-05L | 0.5 | 2" | 1/3 | 36 | 77 | 0.5" |
| A-21 | 1 | 2" | 1/3 | 52 | 88 | 0.5" |
| A-31 | 1 | 3" | 1/3 | 38 | 143 | 0.5" |
| A-33H | 3 | 3" | 1 | 119 | 170 | 0.5" |

| | Discharge | 2" • 3" |
|-----------------|--|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor (3600 RPM) (A-05A: Oil Motor) Class B IP68 Auto-Cut Ball Type Double Mechanical Seals (A-05A: Single Seal) Semi-Open |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Cable Optional | ASTM-48, Class 30 SUS304 SUS410 (0.5–1Hp) • SUS430 (2–3Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 (A-05A/B: PA) VCT or H07RN-7 or SJOW/SOW Float Switch • Class F Motor |

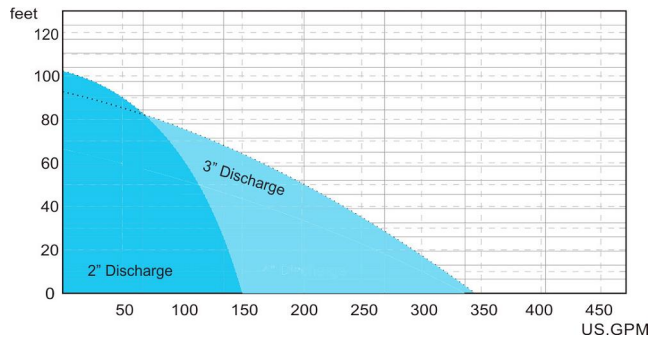
A Series Features

- Rotors heat-treated for high temperature ratings
- Stator winding impregnated with varnish and then heat-dried in an industrial oven
- Assembled professionally and tested for highest quality
- Standard accessories include cable with an epoxy resin-sealed & water-resistant cable base, auto-cut thermal motor protector, and lip seal design

Applications

- Water features
- Flood control
- Sump drainage
- Dewatering

AN Series Curves



| Model | HP | Dis. | Ø | MAX | | |
|---------|-----|------|-----|------|------|--------|
| | | | | Head | Flow | Solids |
| AN-21 | 1 | 2" | 1/3 | 65 | 80 | 0.25" |
| AN-21.5 | 1.5 | 2" | 1/3 | 72 | 89 | 0.25" |
| AN-22 | 2 | 2" | 1/3 | 80 | 130 | 0.5" |
| AN-23 | 3 | 2" | 1/3 | 102 | 146 | 0.5" |
| AN-32 | 2 | 3" | 1/3 | 68 | 225 | 0.5" |
| *AN-33 | 3 | 3" | 1/3 | 88 | 261 | 0.5" |
| AN-35 | 5 | 3" | 3 | 91 | 345 | 0.75" |

* Optional 4" discharge connection

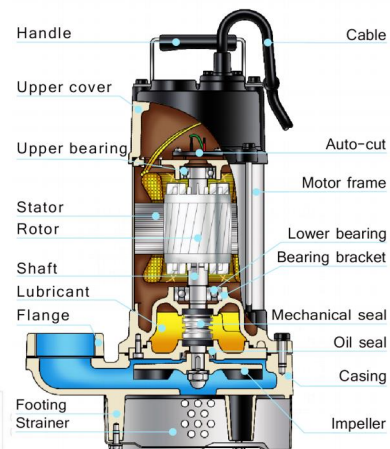
AN Series Features

- Rotors heat-treated for high temp. ratings
- Stator winding impregnated with varnish and then heat-dried in an industrial oven
- Assembled professionally and tested for highest quality
- Standard accessories include cable with an epoxy resin-sealed & water-resistant cable base, auto-cut thermal motor protector, and triple seal design

Applications

- Water features
- Flood control
- Sump drainage
- Dewatering

| | Discharge | 2" • 3" |
|-----------------|--|---|
| Max | Liquid Temp. Applications Submersion | 32–108° F Dewatering/water features 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (5Hp: Class F) IP68 Auto-Cut Ball Type Double Mechanical Seals Semi-Open, Vortex |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Cable Optional | ASTM-48, Class 30 SUS304 • ASTM-48, Class 30 SUS410 (≤1.5Hp) • SUS430 (≤5Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 VCT or H07RN-7 or SJOW/SOW Float Switch • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |



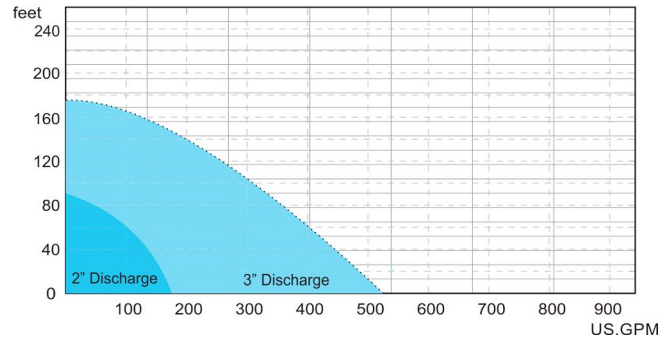
AL Series

Dewatering Submersible Pumps

04



AL Series Curves



MAX

| Model | HP | Dis. | Ø | Head | Flow | Solids |
|-----------|-----|------|-----|------|------|--------|
| 50AL21.5 | 2 | 2" | 1/3 | 66 | 155 | 0.75" |
| 50AL22.2 | 3 | 2" | 1/3 | 86 | 176 | 0.75" |
| 80AL21.5 | 2 | 3" | 1/3 | 51 | 260 | 0.75" |
| 80AL22.2 | 3 | 3" | 1/3 | 67 | 296 | 0.75" |
| 80AL23.7A | 5 | 3" | 3 | 99 | 353 | 0.75" |
| 80AL25.5 | 7.5 | 3" | 3 | 117 | 405 | 0.75" |
| 80AL27.5 | 10 | 3" | 3 | 144 | 450 | 0.75" |
| 80AL211 | 15 | 3" | 3 | 175 | 520 | 0.75" |

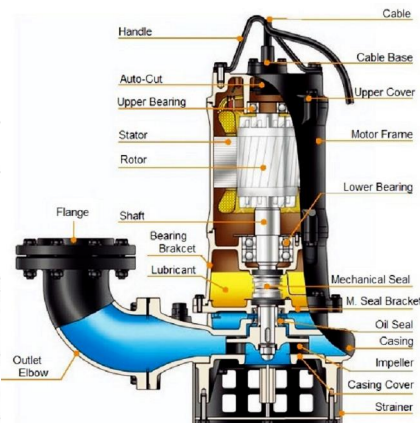
AL Series Features

- Equipped with thermal motor protector and epoxy cable base treatment
- Water resistant and IP68 compliant
- Entire cast iron construction
- Compact design, high head, and high efficiency for wide range of use
- Pressure-reducing design
- 7.5Hp–15Hp triangular handle design for easy handling on guide rail systems

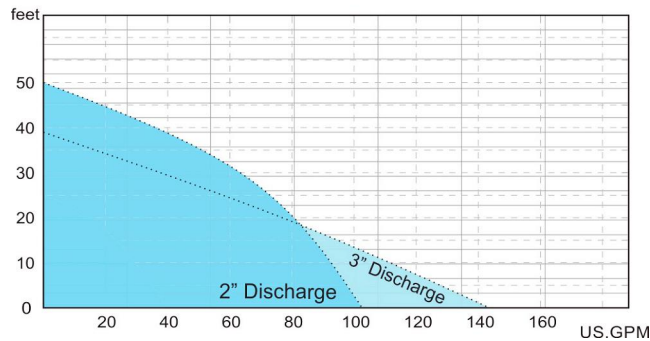
Applications

- All-industry drainage
- Surface, drainage, & flood water removal
- River & lake water extraction

| | Discharge | 2" • 3" |
|-----------------|---|--|
| Max | Liquid Temp. Applications Submersion | 32–104° F Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P (3600 RPM) • Dry Motor Class B • Class F (≥5Hp) IP68 Auto-Cut (15Hp: MTS & MS) Ball Type Double Mechanical Seals Semi-Open |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Footing Cable Optional | ASTM-48, Class 30 ASTM-48, Class 30 SUS403 • SUS420J2 (≥7.5Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 ASTM-48, Class 30 VCT or H07RN-7 or SJOW/SOW Float Switch • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |



F Series Curves



| — MAX — | | | | | | | |
|---------|-----|------|-----|------|------|--------|-------------|
| Model | HP | Dis. | Ø | Head | Flow | Solids | |
| F-05A | 0.5 | 2" | 1 | 40 | 58 | 0.5" | |
| F-05U | 0.5 | 2" | 1/3 | 31 | 74 | 1.5" | |
| F-05UL | 0.5 | 2" | 1/3 | — | — | 2" | COMING SOON |
| F-21U | 1 | 2" | 1/3 | 45 | 93 | 1.5" | |
| F-21UL | 1 | 2" | 1/3 | — | — | 2" | COMING SOON |
| F-21P | 1 | 2" | 1/3 | 50 | 103 | 0.75" | |
| F-31U | 1 | 3" | 1/3 | 38 | 143 | 1.25" | |

F Series Features

- Rotors heat-treated for high temperature ratings
- Stator winding impregnated with varnish and then heat-dried in an industrial oven
- IP68 Grade water resistance
- Precision manufactured
- Assembled professionally and tested for highest quality
- Standard accessories include cable with an epoxy resin-sealed & water-resistant cable base, auto-cut thermal motor protector, and lip seal design

Applications

- Draining from basements, hotels, and factories
- Draining sewage from industrial process factories
- Emptying septic tanks, cesspits, and sewage pump stations
- Pumping surface and drainage water from garages and sprinkler systems

| | Discharge | 2" • 3" |
|-----------------|---|---|
| Max | Liquid Temp. Applications Submersion | 32-104° F Effluent/drainage 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor (F-05A: Oil motor) Class B IP68 Auto-Cut Ball Type Double Mechanical Seals (F-05A: Single Seal) Semi-Open (U/P) |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Cable Optional | ASTM-48, Class 30 SUS304 SUS410 Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 (F-05A: PA) VCT or H07RN-7 or SJOW/SOW Float Switch • Class F Motor (≤3Hp) |

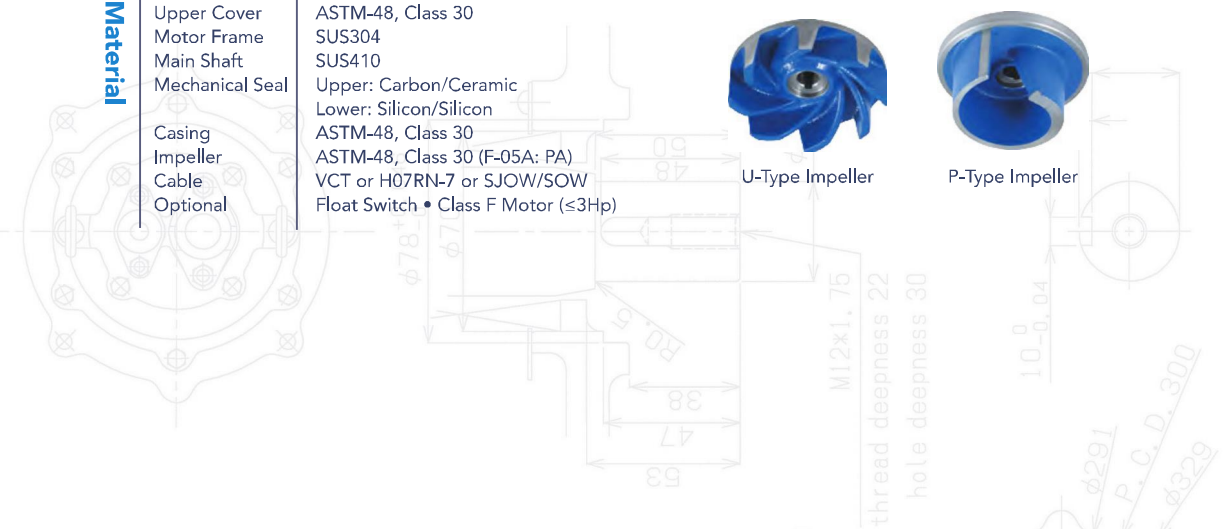


U-Type Impeller



P-Type Impeller

All dimensions in mm



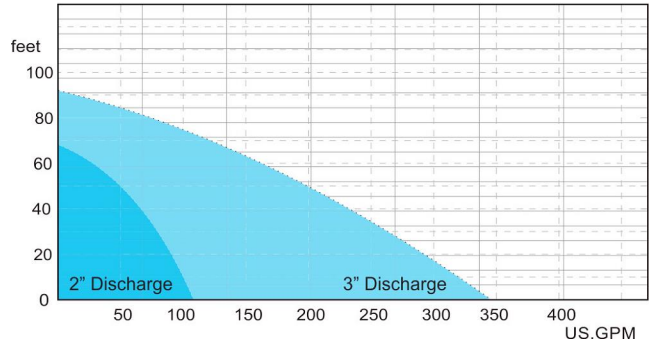
FN Series

Wastewater/Effluent Submersible Pumps

06



FN Series Curves



— MAX —

| Model | HP | Dis. | Ø | Head | Flow | Solids |
|---------|----|------|-----|------|------|--------|
| FN-22U | 2 | 2" | 1/3 | 67 | 112 | 1.5" |
| FN-32U | 2 | 3" | 1/3 | 51 | 174 | 2" |
| FN-32P | 2 | 3" | 1/3 | 51 | 250 | 1.25" |
| FN-33U | 3 | 3" | 1/3 | 64 | 212 | 2" |
| FN-33P | 3 | 3" | 1/3 | 68 | 294 | 1.25" |
| FN-35U | 5 | 3" | 3 | 85 | 260 | 2" |
| FN-35P | 5 | 3" | 3 | 90 | 345 | 1.25" |
| FN-32UL | 2 | 3" | 1/3 | 32 | 192 | 3" |
| FN-33UL | 3 | 3" | 1/3 | 31 | 228 | 3" |
| FN-35UL | 5 | 3" | 3 | 48 | 283 | 3" |

FN Series Features

- Rotors heat-treated for high temperature ratings
- Stator winding impregnated with varnish and then heat-dried in an industrial oven
- IP68 Grade water resistance
- Precision manufactured
- Assembled professionally and tested for highest quality
- Standard accessories include cable with an epoxy resin-sealed & water-resistant cable base, auto-cut thermal motor protector, and lip seal design

Applications

- Draining from basements, hotels, and factories
- Draining sewage from industrial process factories
- Emptying septic tanks, cesspits, and sewage pump stations
- Pumping surface and drainage water from garages and sprinkler systems

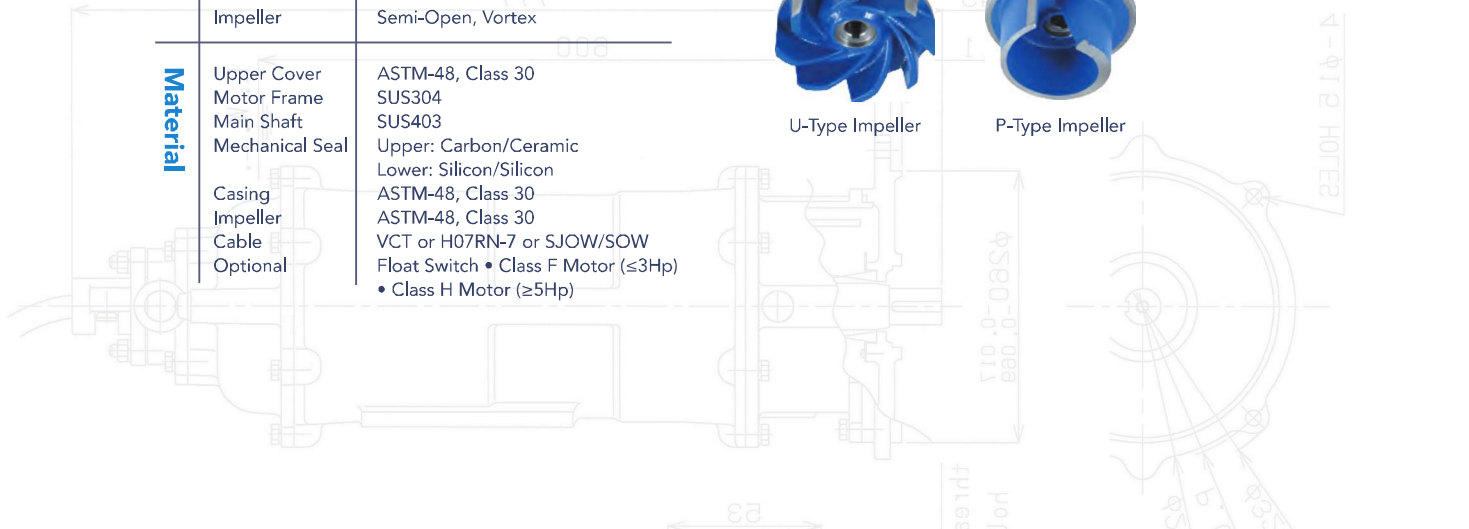
| | Discharge | 2" • 3" |
|-----------------|--|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Wastewater/effluent 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (5Hp: Class F) IP68 Auto-Cut Ball Type Double Mechanical Seals Semi-Open, Vortex |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Cable Optional | ASTM-48, Class 30 SUS304 SUS403 Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 VCT or H07RN-7 or SJOW/SOW Float Switch • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |



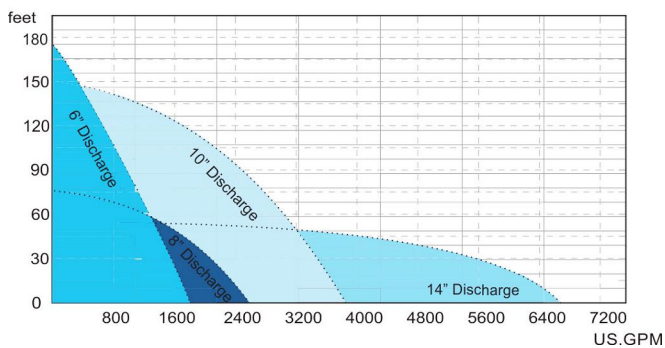
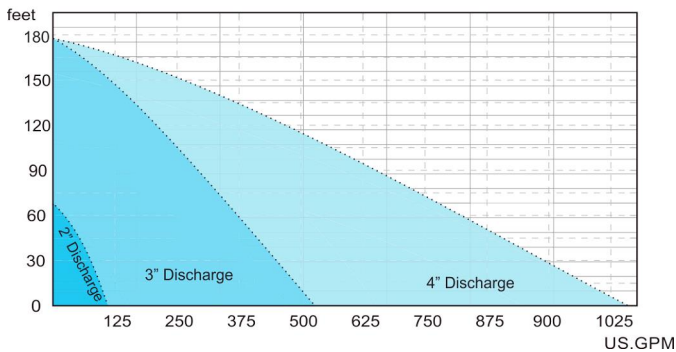
U-Type Impeller



P-Type Impeller



AF Series Curves



— MAX —

| Model | HP | Dis. | Ø | Head | Flow | Solids |
|--------------|--------|------|-----|------|------|---------|
| 50AFU | 0.5–2 | 2" | 1/3 | 66 | 112 | 1.5–2" |
| 80AFP/U/E | 2–15 | 3" | 1/3 | 178 | 518 | 1.25–3" |
| 100AFP/U/E | 3–40 | 4" | 1/3 | 178 | 1190 | 2–4" |
| 150AFP/AF-6" | 7.5–40 | 6" | 3 | 178 | 1650 | 3" |
| AF-8" | 15–20 | 8" | 3 | 75 | 2420 | 3" |
| AF-10" | 30–60 | 10" | 3 | 150 | 3680 | 3" |
| *AF-14" | 30–60 | 14" | 3 | 56 | 6700 | 4.75" |

* Optional 16" discharge

* External capacitors on some 1Ø models



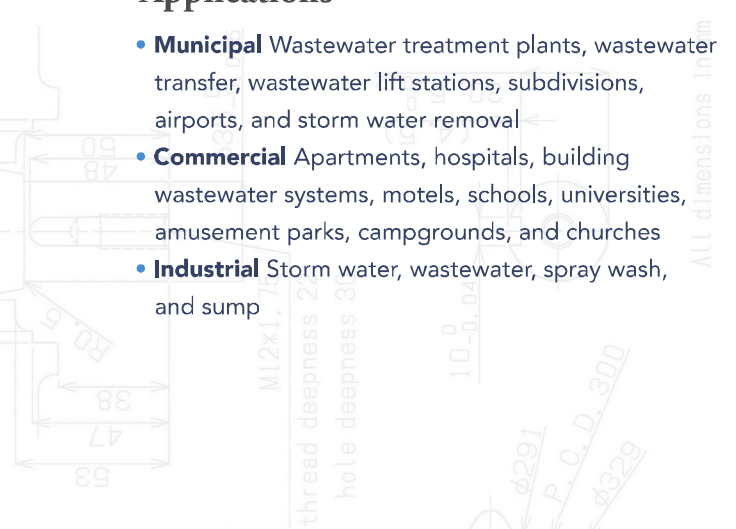
| | Discharge | 2" • 3" • 4" • 6" • 8" • 10" • 14" |
|-----------------|---|--|
| Max | Liquid Temp. Applications Submersion | 32–104° F Municipal & Industrial Wastewater 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P–6P • Dry Motor Class B (≤3Hp) • Class F (≥5Hp) IP68 Miniature Thermal Sensor (MTS) • Overtemp Moisture Sensor (MS) • Auto-Cut ≤3Hp Ball Type Double Mechanical Seals Enclosed-channel • Semi-Open • Vortex |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Wear Ring Cable Optional | ATSM-48, Class 30 ATSM-48, Class 30 SUS420J2 • SUS403 • SUS410 Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 Brass PNCT 30 ft & 50 ft • 10 Hp: VCT/SJOW/SOW • 10–30Hp: H07RN-F Seal Leak & Thermal Protection (Standard for ≥5Hp) • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |

AF Series Features

- International standard design: industrial grade cable, air-cooled motor, silicon carbide seals, and highest grade cast iron construction
- P/U/E impellers capable of performing in sewage applications with solids and fibrous materials
- Full range of pumps capable of meeting high head and/or high flow duty points & applications
- Epoxy-coated surfaces to protect exterior during the life of operation
- Integrates air lock valve
- 5Hp and above come standard with seal leak protection, thermal protection, and 50-ft cable

Applications

- **Municipal** Wastewater treatment plants, wastewater transfer, wastewater lift stations, subdivisions, airports, and storm water removal
- **Commercial** Apartments, hospitals, building wastewater systems, motels, schools, universities, amusement parks, campgrounds, and churches
- **Industrial** Storm water, wastewater, spray wash, and sump



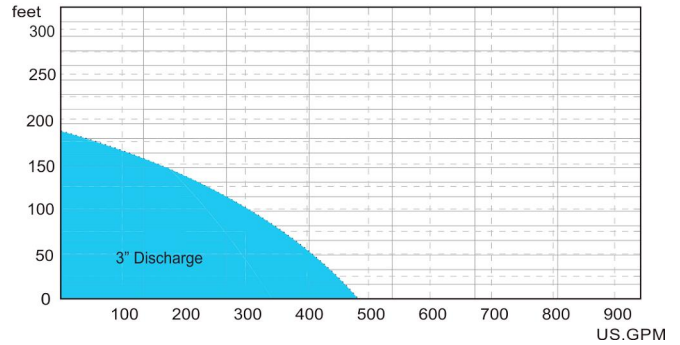
AFC Series

Submersible Cutter Pumps

08



AFC Series Curves



AFC Series Features

- Tungsten Carbide-edged impeller is perfect for pumping sewage and breaking/tearing debris
- International standard design: epoxy resin-sealed cable, motor protector, dry motor, silicon carbide seal, and high-grade cast iron
- Superior abrasion-resistant silicon carbide mechanical seal to ensure best seal
- C-type impeller and cutter casing cover, on the impeller vanes, shred against the inner cutting blades to break down destructible solids
- Heat-treated casing cover designed to withstand abrasions

Applications

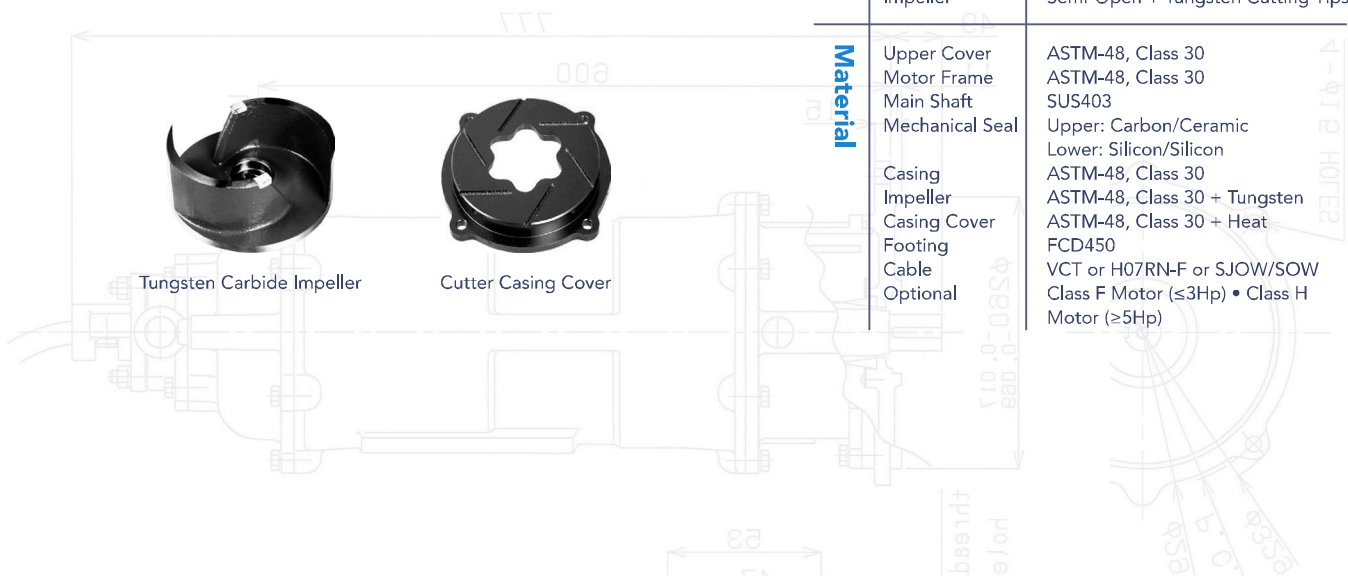
- Drainage of effluent containing debris from factories
- Effluent management, water accumulation, and/or farms

| Model | HP | Dis. | Ø | Head | Flow | Solids |
|-------------|-----|------|-----|------|------|--------|
| 80AFC21.5 | 2 | 3" | 1/3 | 52 | 242 | 2.375" |
| 80AFC22.2 | 3 | 3" | 1/3 | 65 | 280 | 2.375" |
| *80AFC23.7A | 5 | 3" | 1/3 | 94 | 340 | 2.375" |
| 80AFC25.5 | 7.5 | 3" | 3 | 115 | 382 | 2.375" |
| 80AFC27.5 | 10 | 3" | 3 | 140 | 440 | 2.375" |
| 80AFC211 | 15 | 3" | 3 | 180 | 490 | 2.375" |
| 80AFC41.5 | 2 | 3" | 3 | — | — | 2.375" |
| 80AFC42.2 | 3 | 3" | 3 | — | — | 2.375" |
| 80AFC43.7 | 5 | 3" | 3 | — | — | 2.375" |

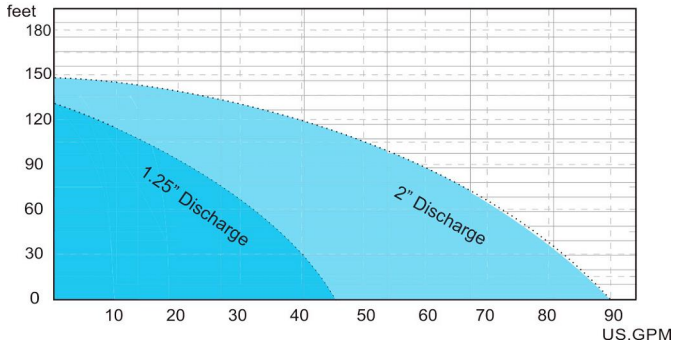
* External capacitors on single phase

COMING SOON

| | Discharge | 3" |
|-----------------|---|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Effluent 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (5Hp: Class F) IP68 Auto-cut (≥5Hp: MTS & MS) Ball Type Double Mechanical Seals Semi-Open + Tungsten Cutting Tips |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Casing Cover Footing Cable Optional | ASTM-48, Class 30 ASTM-48, Class 30 SUS403 Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 + Tungsten ASTM-48, Class 30 + Heat FCD450 VCT or H07RN-F or SJOW/SOW Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |



GF Series Curves



| Model | HP | Dis. | Ø | MAX | |
|------------|-----|-------|-----|------|------|
| | | | | Head | Flow |
| 32GF21.0 | 1 | 1.25" | 1/3 | 65 | 32 |
| 32GF21.5 | 2 | 1.25" | 1/3 | 85 | 44 |
| 32GF21.5H | 2 | 1.25" | 1/3 | 100 | 34 |
| 32GF22.2 | 3 | 1.25" | 1/3 | 108 | 45 |
| 32GF22.2H | 3 | 1.25" | 1/3 | 131 | 35 |
| 32GFR22.2 | 3 | 1.25" | 1 | 108 | 45 |
| 32GFR22.2H | 3 | 1.25" | 1 | 131 | 35 |
| *50GF22.2 | 3 | 2" | 1/3 | 80 | 88 |
| *50GF23.7 | 5 | 2" | 1/3 | 120 | 89 |
| *50GF24.5 | 6 | 2" | 1/3 | 145 | 89 |
| 50GF25.5 | 7.5 | 2" | 3 | — | — |
| 50GF27.5 | 10 | 2" | 3 | — | — |

COMING SOON
COMING SOON

* External capacitors on single phase

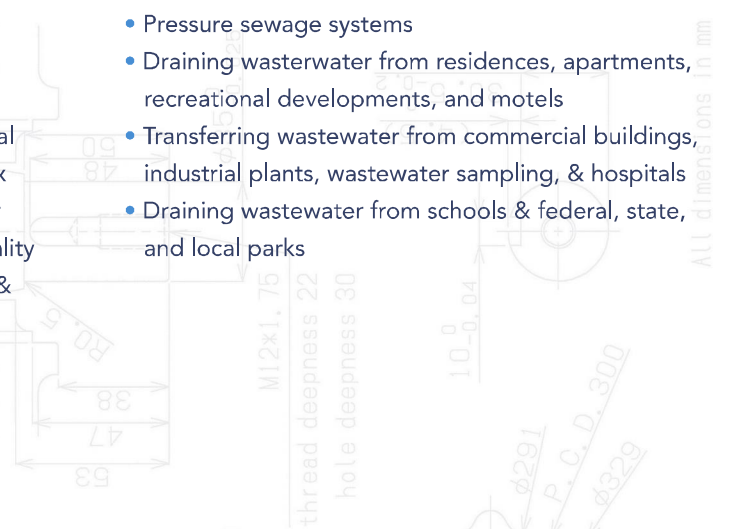
| | Discharge | 1.25" • 2" |
|-----------------|--|--|
| Max | Liquid Temp. Applications Submersion | 32–104° F Wastewater 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (≤3Hp) • Class F (≥5Hp) IP68 Auto-Cut • MTS & MS Ball Type, Double Lower Ball Bearing Double Mechanical Seals Vortex |
| Material | Radial Cutter Cutter Ring Main Shaft Mechanical Seal Casing Impeller Cable Optional | SUS440C SUS440C SUS420J2 • SUS403 Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 ASTM-48, Class 30 VCT or H07RN-7 or SJOW/SOW Float Switch (≤3Hp) • DN40 Casing 2" Horizontal/Vertical Discharge • Seal leak and Overtemp • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |

GF Series Features

- Vortex impeller design prevents clogging
- Radial cutter/cutter ring are corrosion resistant and hardened to 55-60 Rockwell C
- Single phase grinder pump equipped with centrifugal switch & internal capacitor motor design provides 5x higher torque than average capacitor starting motor
- Assembled professionally and tested for highest quality
- Standard accessories include an epoxy resin-sealed & water-resistant cable base, auto-cut thermal motor protector, and lip seal design

Applications

- Pressure sewage systems
- Draining wastewater from residences, apartments, recreational developments, and motels
- Transferring wastewater from commercial buildings, industrial plants, wastewater sampling, & hospitals
- Draining wastewater from schools & federal, state, and local parks

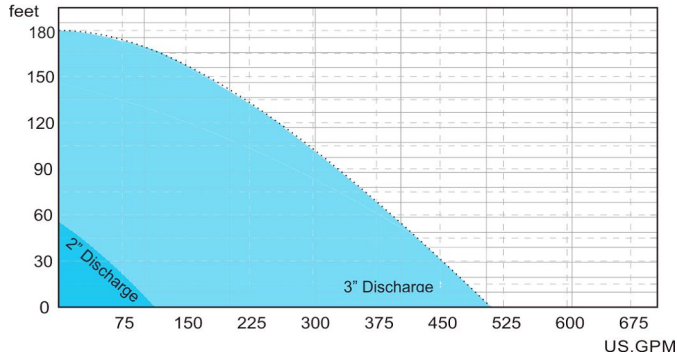


SA/SF Series

Submersible Stainless Steel Pumps

10

SA/SF Series Curves



| Model | HP | Dis. | Ø | Head | Flow |
|----------------|-------|------|-----|------|------|
| 50SA | 0.5–1 | 2" | 1/3 | 53 | 96 |
| 80SA | 2–15 | 3" | 1/3 | 182 | 512 |
| 50SFU | 0.5–1 | 2" | 1/3 | 49 | 97 |
| 80SFU/P | 2–15 | 3" | 1/3 | 180 | 515 |

| | Discharge | 2" • 3" |
|-----------------|--|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Corrosive fluids 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (≤3Hp) • Class F (≥5Hp) IP68 Auto-cut • MTS & MS (≥5Hp) Ball Type Double Mechanical Seals Semi-Open, Vortex |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal O-Ring Casing Impeller Casing Cover Cable Optional | SCS13 (0.5 Hp) • SCS140 SUS316 SUS316 Upper: Carbon/Ceramic Lower: Silicon/Silicon Viton SCS13 (0.5 Hp) • SCS140 SCS14 SCS13 (0.5 Hp) • SCS140 (VCT or H07RN-F or SJOW/SOW Float Switch ≤ 3Hp (1Ø only) • Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |

SA/SF Series Features

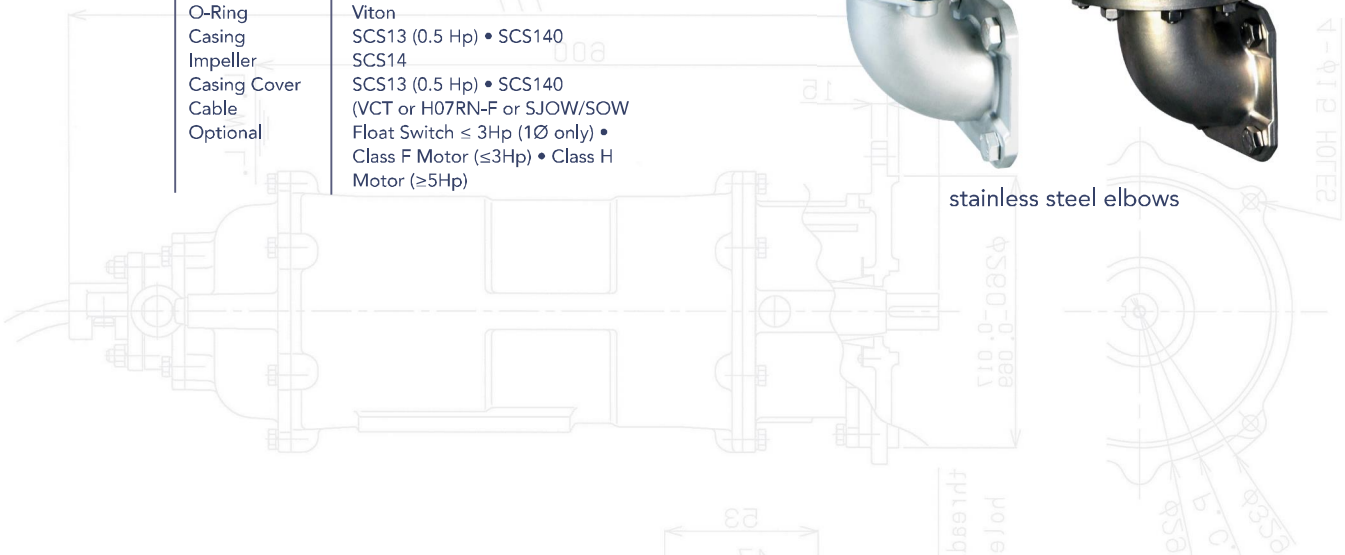
- Exceeds industrial design standard with cooled motor, double mechanical seals, HCP auto-cut feature (internal temperature & amperage protection), chemically protected Viton O-rings/elastomers, and 316 stainless steel material of construction
- Stainless steel submersible pump line is suitable for harsh conditions such as light acid, corrosive materials/media, and saltwater dewatering applications

Applications

- Applications with corrosive materials such as chemicals, saltwater, and/or PH imbalances
- Chemical, industrial, automotive, pharmaceutical, marine (saltwater), and mining markets

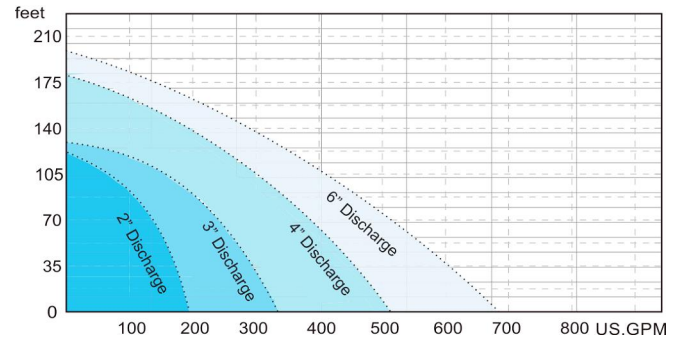


stainless steel elbows





HD Series Curves



— MAX —

| Model | HP | Dis. | Ø | Head | Flow |
|-----------|-----|------|-----|------|------|
| 50HD21.1 | 1.5 | 2" | 1/3 | 65 | 113 |
| 50HD21.5 | 2 | 2" | 1/3 | 76 | 135 |
| 50HD22.2 | 3 | 2" | 1/3 | 93 | 158 |
| 50HD23.7 | 5 | 2" | 3 | 122 | 198 |
| 80HD21.5 | 2 | 3" | 1/3 | 64 | 228 |
| 80HD22.2 | 3 | 3" | 3 | 75 | 265 |
| 80HD23.7 | 5 | 3" | 3 | 105 | 270 |
| 80HD25.5 | 7.5 | 3" | 3 | 132 | 332 |
| 100HD23.7 | 5 | 4" | 3 | 82 | 405 |
| 100HD25.5 | 7.5 | 4" | 3 | 105 | 505 |
| 100HD27.5 | 10 | 4" | 3 | 135 | 492 |
| 100HD211 | 15 | 4" | 3 | 179 | 422 |
| 150HD27.5 | 10 | 6" | 3 | 100 | 690 |
| 150HD215 | 20 | 6" | 3 | 190 | 610 |

HD Series Features

- Designed for civil engineering applications: its portability, double outer casing, and water cooling motor make it possible to run the pump in low water levels
- IP68 standard epoxy resin cable, automatic rest motor protector, and silicon carbide double mechanical seal make it durable and leakproof
- Multi-impeller design with high chrome alloy steel (HiCrFC) impeller, wear plate/wear rings with hardness 55–60 Rockwell

Applications

- Dewatering fishponds, basements, and/or cellars
- Flood control

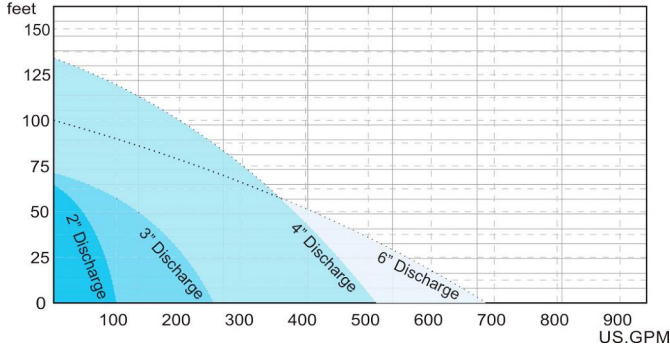
| | Discharge | 2" • 3" • 4" • 6" |
|-----------------|---|---|
| Max | Liquid Temp. Applications Submersion | 32–104° F Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B (≤3Hp) • Class F (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Semi-Open • Enclosed Channel |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Casing Impeller Wear Ring/Plate Cable Optional | ASTM-48, Class 30 SUS304 • ASTM-48, Class 30 (≥5Hp) SUS403 • SUS20J2 (≥5Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon ASTM-48, Class 30 HiCrFC HiCrFC VCT or H07RN-F or SJOW/SOW Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |



HD flange & thread connections

All dimensions in mm

IC Series Curves



| — MAX — | | | | | |
|---------|-----|------|-----|------|------|
| Model | HP | Dis. | Ø | Head | Flow |
| IC-215 | 1.5 | 2" | 1/3 | 64 | 100 |
| IC-32B | 2 | 3" | 1/3 | 61 | 227 |
| IC-33B | 3 | 3" | 1/3 | 70 | 255 |
| IC-43B | 3 | 4" | 3 | 61 | 355 |
| IC-45B | 5 | 4" | 3 | 81 | 420 |
| IC-46B | 6 | 4" | 3 | 84 | 470 |
| IC-48 | 7.5 | 4" | 3 | 105 | 505 |
| IC-410 | 10 | 4" | 3 | 135 | 495 |
| IC-610 | 10 | 6" | 3 | 100 | 690 |

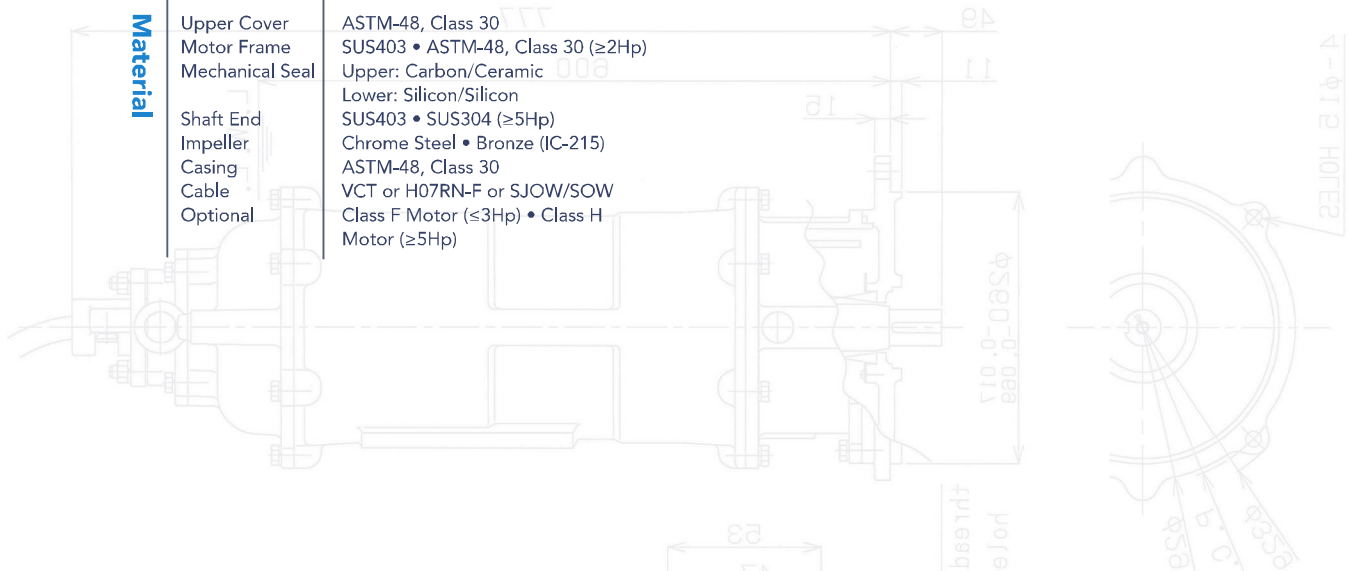
| | | |
|-----------------|---|--|
| | Discharge | 2" • 3" • 4" • 6" |
| Max | Liquid Temp. Applications Submersion | 32–104° F Irrigation & Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B • Class F (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Enclosed Channel, Semi-Open |
| Material | Upper Cover Motor Frame Mechanical Seal Shaft End Impeller Casing Cable Optional | ASTM-48, Class 30 SUS403 • ASTM-48, Class 30 (≥2Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon SUS403 • SUS304 (≥5Hp) Chrome Steel • Bronze (IC-215) ASTM-48, Class 30 VCT or H07RN-F or SJOW/SOW Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |

IC Series Features

- Internal casing treated with high solids epoxy coating to improve anti-corrosion and extend product life
- Dry motor with thermal auto-cut, heat-efficient cast iron motor frame, abrasion-resistant double mechanical seals, and additional oil seal
- Highly efficient water-cooled motor ensures energy savings even in continuous/intermittent operation
- Suction impeller design allows for dewatering or circulation applications
- Pump strainer can be easily replaced with check valve for dewatering up to 26 feet
- New casing cover with metric thread bolt hole to ease valve and adapter connection

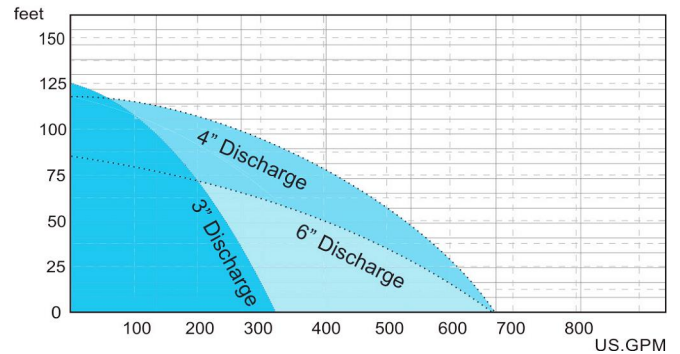
Applications

- Water supply for agricultural irrigation systems and underground water pumping
- Landscapes, water features, and irrigation
- Extraction of water from rivers, lakes, and reservoirs





HDG Series Curves



HDG Series Features

- Designed for civil engineering applications: its portability, double outer casing, and water-cooling motor make it possible to run the pump in low water levels
- Compact, strong, and easy-to-use in any application
- Hardened and abrasion-resistant impeller made of high chrome alloy (HiCr) steel with hardness of 50–60 Rc
- Equipped with a powerful cast iron (FCD-700) agitator

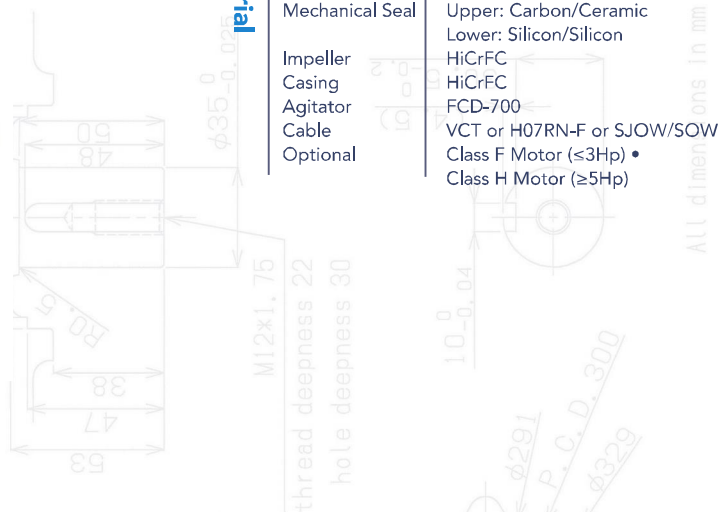
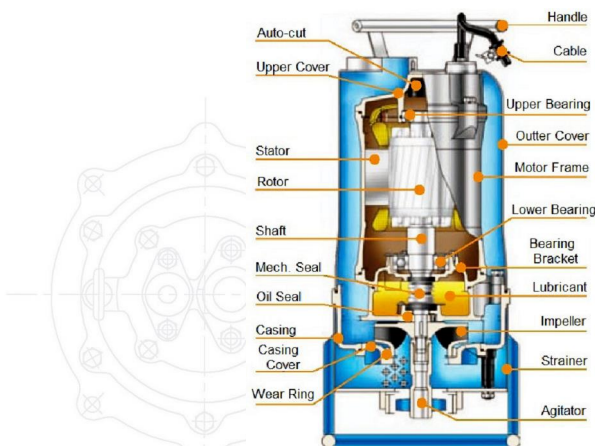
Applications

- Civil engineering, dewatering, and manhole sewers
- Dewatering containing light sediments/solids
- Use for contractors, installers, and industries

— MAX —

| Model | HP | Dis. | Ø | Head | Flow |
|------------|-----|------|-----|------|------|
| 80HDG21.5 | 2 | 3" | 1/3 | 52 | 215 |
| 80HDG22.2 | 3 | 3" | 1/3 | 61 | 255 |
| 80HDG23.7 | 5 | 3" | 3 | 93 | 255 |
| 80HDG25.5 | 7.5 | 3" | 3 | 125 | 320 |
| 100HDG25.5 | 7.5 | 4" | 3 | 90 | 495 |
| 100HDG27.5 | 10 | 4" | 3 | 119 | 670 |
| 150HDG27.5 | 10 | 6" | 3 | 85 | 670 |

| | Discharge | 3" • 4" • 6" |
|-----------------|--|--|
| Max | Liquid Temp. Applications Submersion | 32–104° F Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor Class B • Class F (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Semi-Open • Enclosed Channel |
| Material | Upper Cover Motor Frame Main Shaft Mechanical Seal Impeller Casing Agitator Cable Optional | ASTM-48, Class 30 ASTM-48, Class 30 SUS403 • SUS304 (≥5Hp) Upper: Carbon/Ceramic Lower: Silicon/Silicon HiCrFC HiCrFC FCD-700 VCT or H07RN-F or SJOW/SOW Class F Motor (<3Hp) • Class H Motor (≥5Hp) |

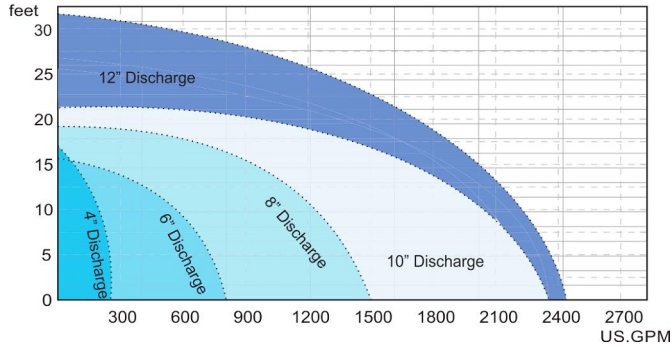


L Series

Large Volume Submersible Pumps

14

L Series Curves



| Model | HP | Dis. | Ø | Head | Flow |
|---------|-----|------|-----|------|------|
| L-405A | 0.5 | 4" | 1/3 | 12 | 217 |
| L-41A | 1 | 4" | 1/3 | 17 | 260 |
| L-62A | 2 | 6" | 3 | 14 | 550 |
| L-63A | 3 | 6" | 3 | 16 | 800 |
| L-200A | 7.5 | 8" | 3 | 19 | 1500 |
| L-250A | 10 | 10" | 3 | 22 | 1720 |
| L-250LA | 15 | 10" | 3 | 20 | 2320 |
| L-300A | 15 | 12" | 3 | 27 | 2270 |
| L-1220 | 20 | 12" | 3 | 32 | 2480 |

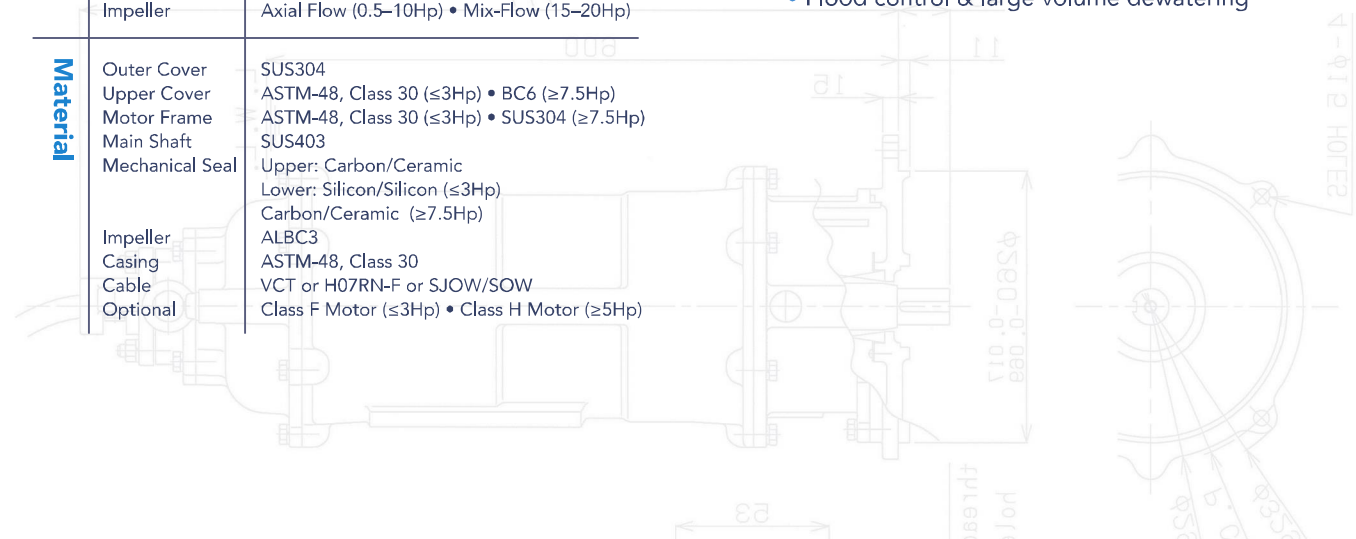
L Series Features

- Large flow capacities achieved with use of axial and mix flow designs
- Impeller flow guide vane for high efficiency
- Easy handling and low maintenance
- Heavy duty housing and cable leads are waterproofed with hardened epoxy
- Casted ALBC3 material (aluminum bronze) impeller with superior abrasion/corrosion resistance
- Equipped to handle small solids
- Available option: epoxy coating

Applications

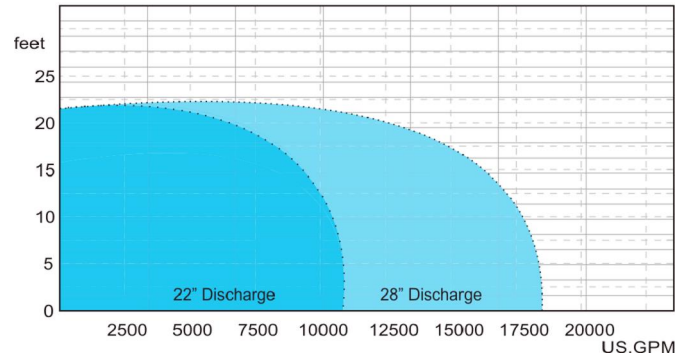
- Pumping/drainage for large volume applications
- Water supply for landscapes, water features, cooling in power plants, or drainage for industries
- Water extraction from rivers & lake
- Flood control & large volume dewatering

| | | |
|-----------------|---|---|
| | Discharge | 4" • 6" • 8" • 10" • 12" |
| Max | Liquid Temp. Applications Submersion | 32–104° F Irrigation/Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 2P • Dry Motor (0.5–1Hp) 4P • Dry Motor (2–20Hp) Class B (≤3Hp) • Class F (≥7.5Hp) IP68 Auto-cut (≤3Hp) • None (≥7.5Hp) Ball Type Double Mechanical Seals Axial Flow (0.5–10Hp) • Mix-Flow (15–20Hp) |
| Material | Outer Cover Upper Cover Motor Frame Main Shaft Mechanical Seal Impeller Casing Cable Optional | SUS304 ASTM-48, Class 30 (≤3Hp) • BC6 (≥7.5Hp) ASTM-48, Class 30 (≤3Hp) • SUS304 (≥7.5Hp) SUS403 Upper: Carbon/Ceramic Lower: Silicon/Silicon (≤3Hp) Carbon/Ceramic (≥7.5Hp) ALBC3 ASTM-48, Class 30 VCT or H07RN-F or SJOW/SOW Class F Motor (≤3Hp) • Class H Motor (≥5Hp) |





LA Series Curves



LA Series Features

- Motor connects directly to impeller for highest efficiency
- Shaft and impeller precisely balanced to reduce noise and extend product life
- Standard protection: thermal protector & mechanical leakage detector; other protection devices available
- Design of impeller and vanes produces higher pump efficiency
- Equipped with sacrificial anodes, high active metals used to prevent a less active material surface from corroding; reduces rusting corrosion in sea water and increases pump's lifetime

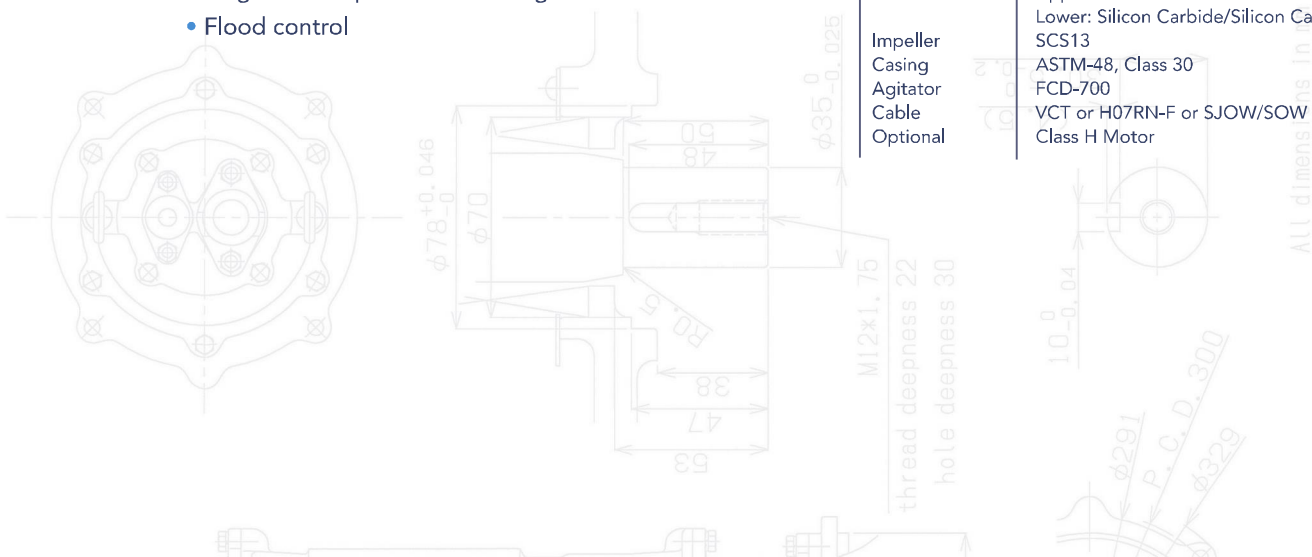
Applications

- Industrial water supply/drainage
- Large volume dewatering
- Large-scale aquaculture farming
- Flood control

— MAX —

| Model | HP | Dis. | Ø | Head | Flow |
|----------|-----|------|---|------|--------|
| LA-2250 | 50 | 22" | 3 | 16 | 10,498 |
| LA-2260 | 60 | 22" | 3 | 21 | 9,050 |
| LA-2875 | 75 | 28" | 3 | 19 | 16,250 |
| LA-28100 | 100 | 28" | 3 | 22 | 18,400 |

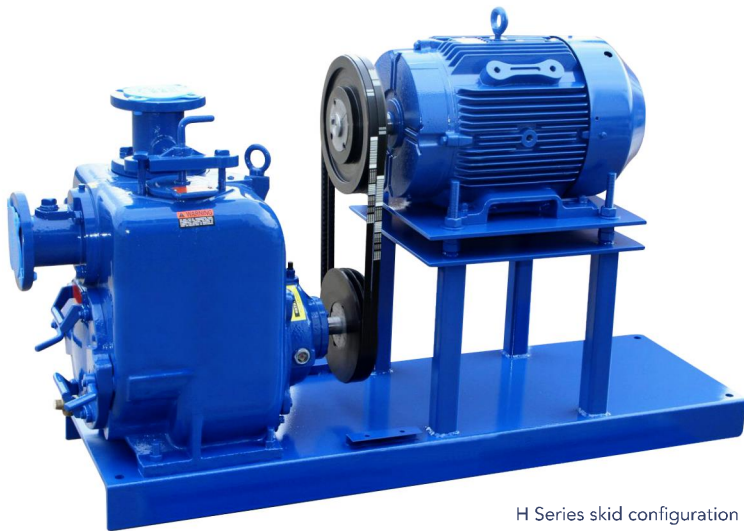
| | Discharge | 22" • 28" |
|-----------------|---|--|
| Max | Liquid Temp. Applications Submersion | 32–180° F Irrigation/Dewatering 100 ft |
| Type | Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller | 60 Hz 10P • Dry Motor (50–60Hp) 12P • Dry Motor (75–100Hp) Class F IP68 MTS & MS • Sacrificial Anode Ball Type Double Mechanical Seals Axial Flow |
| Material | Wear Ring Upper Cover Motor Frame Main Shaft Mechanical Seal Impeller Casing Agitator Cable Optional | SAS13 (≤60Hp) • ALBC3 (≥75Hp) ASTM-48, Class 30 ASTM-48, Class 30 SUS20J2 Upper: Silicon Carbide/Silicon Carbide Lower: Silicon Carbide/Silicon Carbide SCS13 ASTM-48, Class 30 FCD-700 VCT or H07RN-F or SJOW/SOW Class H Motor |



Suction Lift Series

Self-Priming Pumps

16



H Series skid configuration

| Model | HP | Dis. | Ø | MAX | |
|-------|--------|------|---|------|------|
| | | | | Head | Flow |
| H-3 | 1.5-25 | 3" | 3 | 210 | 375 |
| H-4 | 3-40 | 4" | 3 | 195 | 650 |
| H-6 | 5-75 | 6" | 3 | 190 | 1350 |
| P-2 | 1-10 | 2" | 3 | 128 | 210 |
| P-3 | 1-20 | 3" | 3 | 116 | 465 |
| P-4 | 1-30 | 4" | 3 | 117 | 7300 |
| P-6 | 2-40 | 6" | 3 | 110 | 530 |
| P-8 | 7.5-75 | 8" | 3 | 112 | 2650 |
| P-10 | 10-100 | 10" | 3 | 130 | 3450 |

Suction Lift Series Features

- Capable of priming without flap valve
- Non-clogging and capable of handling large solids
- Unique lubrication of mechanical seal cavity makes performance more reliable
- Low rotary speed, reliable operation, easy maintenance, and long product life
- Equipped with pressure relief valve, solids-handling impeller, abrasion-resistant seal, removable cover plate with easy grip handle, replaceable wear plate, and removable rotating assembly

Applications

- Municipal, residential, and industrial use
- Suitable for paper mills, mines, poultry, and construction projects

| | | |
|----------------------|---|--|
| Operation Conditions | Discharge | 2" • 3" • 4" • 6" • 8" • 10" |
| | Density of Medium PH Solid Max Diameter Max Suction Lift Volume Ratio of Solids | 1.0-1.38*103Kg/m ³ Within 5-9 >3" 25 ft 2% |
| Specifications | Impeller Diameter Rotary Speed | 6-18" P Series: 550 RPM-2150 RPM H Series: 850 RPM-3600 RPM |
| | Flow Rates | P Series: 20 GPM-5500 GPM H Series: 35 GPM-1325 GPM |
| | Head | P Series: 15-140 ft H Series: 25-192 ft |
| | Horsepower | P Series: 1Hp-100Hp H Series: 1.5Hp-75Hp |
| | Solid Passing | P Series: 0.75-3" H Series: 1.25" |
| | Materials | P Series: Cast Iron, Ductile Iron, Stainless Steel, Cast Steel, Aluminium, Bronze H Series: Cast Iron, ADI, CD4MCU, 316 Stainless Steel, Alloy 20, C276 |



rotating assembly



semi-open impeller



vortex impeller



DBP Series Highlights



Mobility Our units, with features that make it easy to transport, are made to go where you go.



Versatility We focus on modular design and use across multiple applications.



Durability All configurations have been tested and verified in the toughest working conditions.



Efficiency Our pumps are designed to work in any environment while reducing fuel consumption.



Simplicity All parts and consumables are easily accessible for service and repair.



General Pump Specifications

Discharge 4, 6, 8"

Horsepower 30–134

Max Head 167 ft

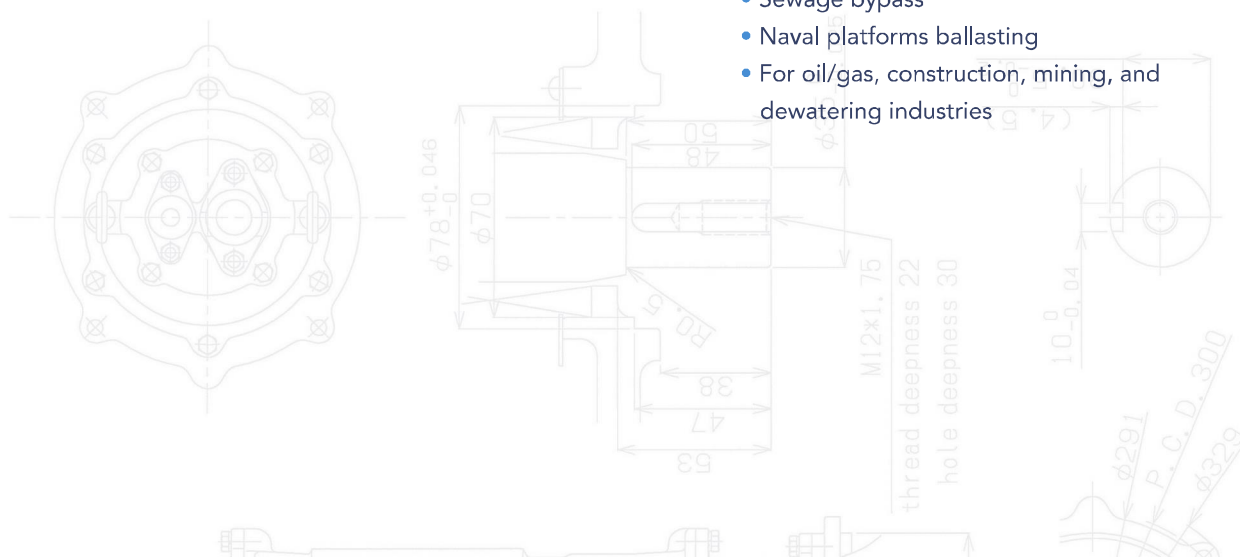
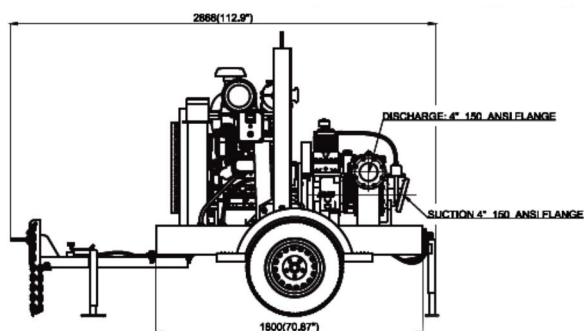
Max Flow 3680 GPM

Features

- **High Capacity Diaphragm Pump** provides automatic and fast priming
- **Oil-Bathed Mechanical Seals** allows dry-running capability without damaging the shaft seals
- **Tier 4 Final Engine** comes standard with all DBP units and meets the latest engine emission standards
- **Lifting Beam** comes standard with all DBP units
- **Different Skid Styles** configured to meet your needs
- **High Efficiency Hydraulic End** ensures lower fuel consumption
- **Hinged Pump Housing** allows for easy servicing of pump

Applications

- Flood/heavy rainwater removal
- Drainage of reservoirs, canals, and ponds
- Sewage bypass
- Naval platforms ballasting
- For oil/gas, construction, mining, and dewatering industries



Control Panels & Basins

Miscellaneous

18



Control Panels

HCP features one of the most complete line of System Alarms, Float Switches, Accessories, and Control Panels. Our control panels are fully customizable.

Available Options

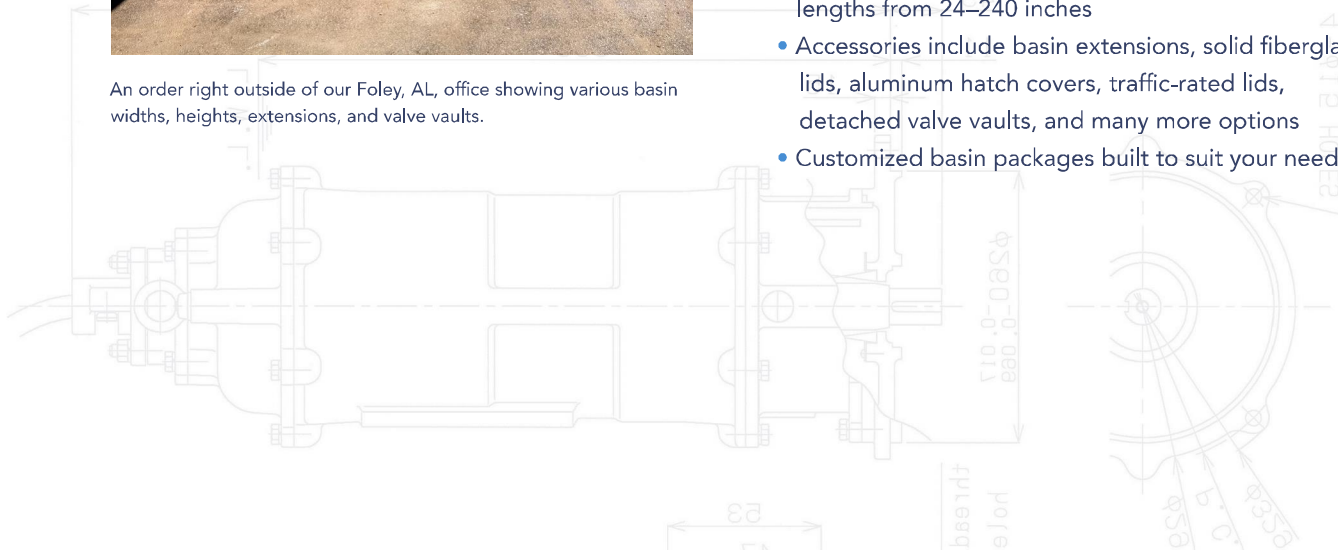
- Plug-In Pedestal/Post A
- Indoor/Outdoor High Water Alarms w/ Battery Backup
- Plug-in/Standard Junction Boxes
- Custom Junction/Connection Boxes
- Mechanical Control Duty Switches
- Standard & Heavy Duty Switches
- Narrow & Wide-Angle Float Switches
- Pump Up & Pump Down Float Switches
- Aerobic Control Panels
- Time Dosing Control Panels
- Grinder Control Panels
- Simplex & Duplex Panels w/ NEMA 4X Enclosures
- Complete 316 Stainless Steel NEMA 4X Enclosures
- Grasslin & Omron Timers
- UL & CSA Listed Products
- Full Line of Accessories & Parts



An order right outside of our Foley, AL, office showing various basin widths, heights, extensions, and valve vaults.

Basin Features

- Each basin contains a minimum of 40% fiberglass and a maximum of 60% commercial-grade resin; glass-to-resin ratio and fillament winding manufacturing process provides most structurally sound basin available
- Produced to withstand soil loadings in excess of twice the force created by saturate sand of 120 cubic feet
- Available in various widths from 18–120 inches and lengths from 24–240 inches
- Accessories include basin extensions, solid fiberglass lids, aluminum hatch covers, traffic-rated lids, detached valve vaults, and many more options
- Customized basin packages built to suit your needs





Submersible Pump Guide Rail Systems

Features HCP Guide Rail Systems allow for quick and convenient pump systems installation, removal, replacement, and maintenance without the hassle of manually handling pumps.

Applications Sewage, wastewater pumping, and drainage where pumps must be regularly maintained and serviced, such as wastewater treatment and sewage plants



Mercury & Mechanical Floats

Designed for accurate liquid level control in many applications including sewage environments. Float switches can be used to signify specific water levels or direct alarm acutation. Available in 20–50 ft lengths and with a 3-prong piggy back plug.



Simplex & Duplex Float Brackets

3-hook & 4-hook U-type stainless steel brackets and mounting bracket for pump lift stations.



Adapters

Adapter (ADT) Flange conforms to JIS 10K/ANSI 125/DIN 2633. Cast iron construction available in 2, 3, 4, & 6" flange construction.

Flygt Guide Rail Adapters Cast iron construction; available in 3, 4, & 6" flange construction.



Accessories

Miscellaneous

20



Outlet Sets

For use with the HD, HDG, and IC pump series. Cast iron construction. Connection fittings for 2–6" discharge. Threads: PT, PF, and NPT.

Flange & Flange Sets

Cast iron construction. Flange fittings for 1.25–8" discharge. Threads: PT, PF, and NPT.



Moisture Sensor

The moisture sensor is used to detect moisture leakage through the mechanical seals. This occurs when the seal has been worn down or damaged; if moisture is found, the sensor will then trigger and transmit a signal to the control panel. The control panel will then set off warning signals and/or power off to protect the motor. If this occurs, schedule pump maintenance to replace the mechanical seal.



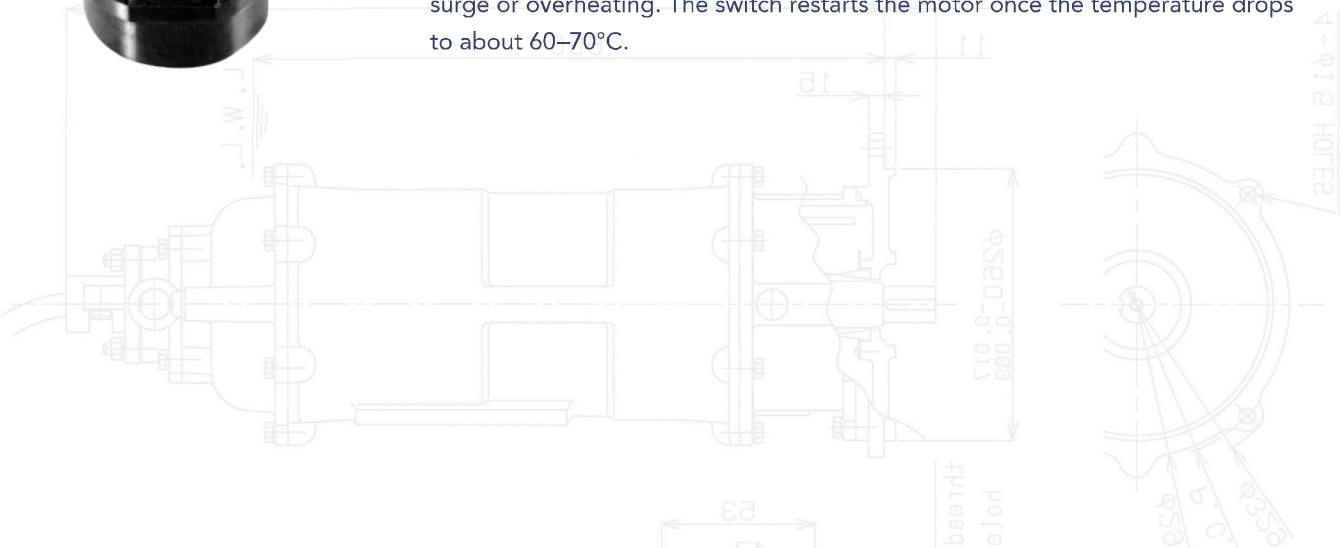
Miniature Thermal Sensor

The overheat protector is an automatic cut-off switch built into a single-phase motor. The switch automatically cuts off power to the motor if the temperature exceeds the maximum allowable operating temperature. The switch restarts the motor once the temperature drops to about 60–70°C.



Protector: Auto-Cut

The Auto-Cut Protector is an automatic cut-off switch installed inside the motor. The switch automatically cuts off power to the motor in the event of a power surge or overheating. The switch restarts the motor once the temperature drops to about 60–70°C.





Mechanical Seals

Seals that are designed for every HCP pump model to offer long-lasting usage and prevent leakage. Each seal has a spring-coiled design to accommodate misalignment, shaft deflection, and breakaway shock loading. Available in Carbon Ceramic or Silicon Carbide.



PVC Swing Check Valve

Full flow, low pressure drop, and great sealing ability. The flapper can withstand the instant back pressure surge up to 2x the PN. Can be used either vertically or horizontally. No internal metal parts are exposed, no spring, and complete anti-corrosion. PVC SCH 80.



PVC True Union Ball Valve

High quality corrosion resistance with pressures up to 300 PSI. Bubble tight shut off. True union design allows easy installation into existing piping. Full rated back pressure. PVC SCH 80.

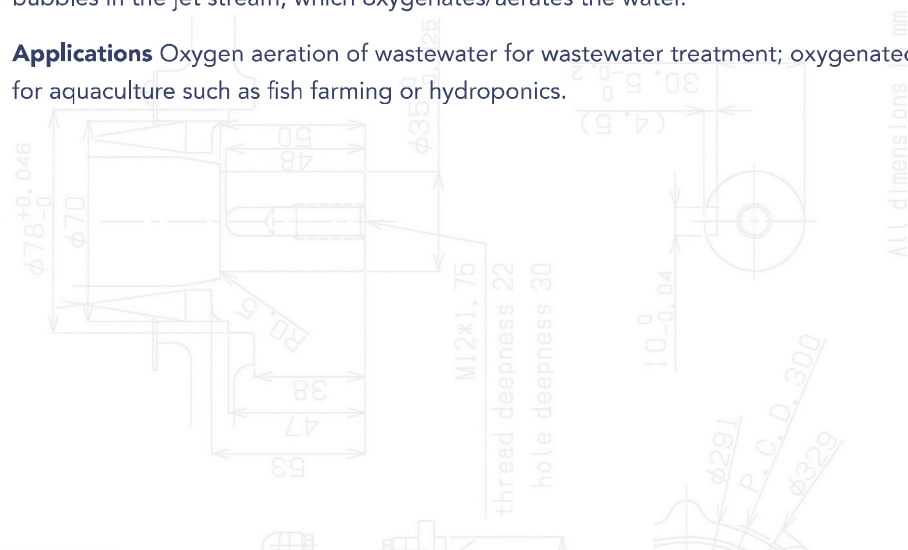


Jet Pumps

Performance Max Operating Depth: 20 ft
Max Air Volume: 27,738 GPH

Features A strong jet flow of mixed air and water. Water is supplied with air through a suction pipe that mixes the water as it enters an expansion pipe; air is introduced as tiny bubbles in the jet stream, which oxygenates/aerates the water.

Applications Oxygen aeration of wastewater for wastewater treatment; oxygenated water for aquaculture such as fish farming or hydroponics.





Agent

FOR MORE INFORMATION CONTACT:

**APPLIED
PROCESS**

EQUIPMENT, INC.



PUMPS AND TANKS

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