HCP PUMPS
America

2019
General Catalog

professionalism • innovation • service • commitment

HCP PUMPS America

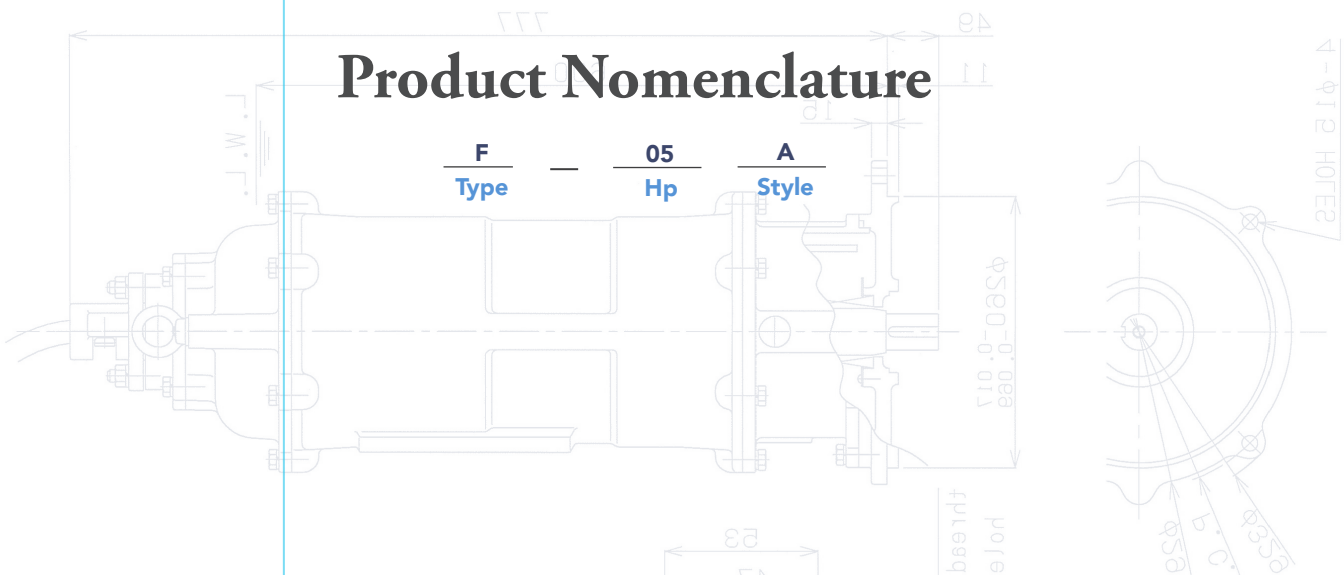
2019
General Catalog

Pumps

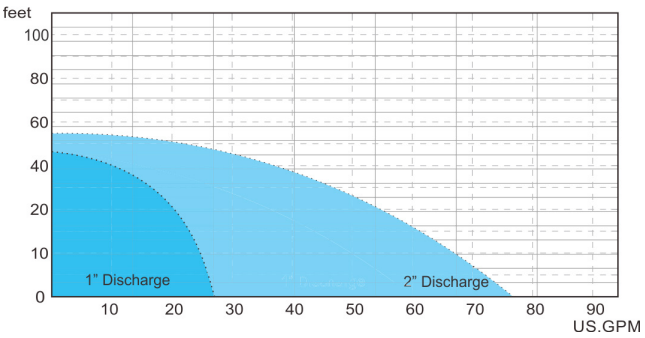
Other

Product Nomenclature

F (Type) — 05 (Hp) A (Style)



GDR • GDS Curves



GDS Model

GDR Model

MAX

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.	32–104˚ F
	Applications	Dewatering
	Submersion	33 ft
Type	Frequency	60 Hz
	Motor	2P • Dry Motor
	Insulation	Class B
	Protection	IP68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Impeller	Vortex
Material	Upper Cover	ADC12
	Motor Frame	ADC12
	Shaft End	SUS410
	Stainer	SUS304
	Mechanical Seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
	Casing	Synthetic rubber
	Impeller	Urethane Rubber + SPCC
	Cable	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 exchangable 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

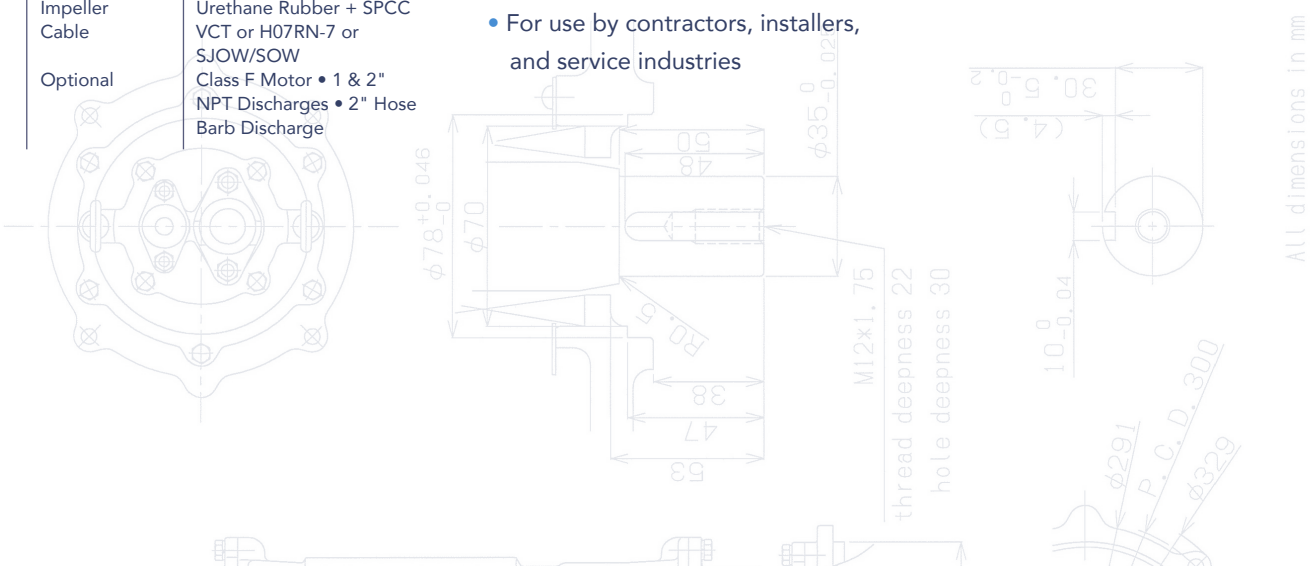
- Civil engineering, dewatering tunnels and ground works, and use in storm water series
- For use by contractors, installers, and service industries

GDR Features

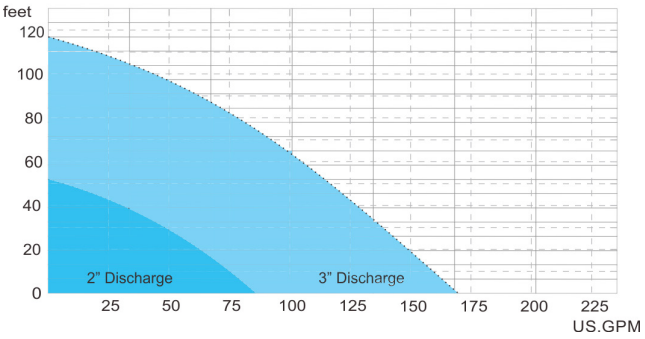
- Water cooling motor with rubber suction pads for residential removal as low as 1 mm (0.39"). Starts up at levels of 5mm.
- Designed to remove water from flat surfaces
- Equipped with an auto-cut motor protector and water-cooling motor
- Impeller & hydraulic components made of durable urethane rubber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

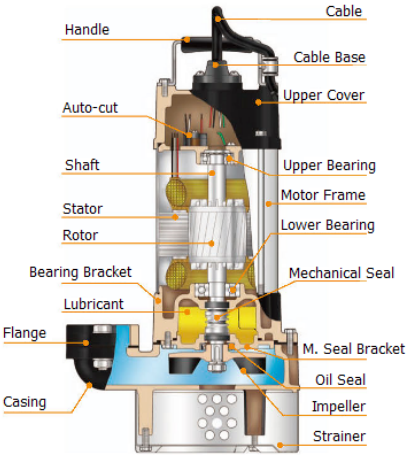
Applications

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



A Series Curves





A-05A/B

A-21/31

MAX

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

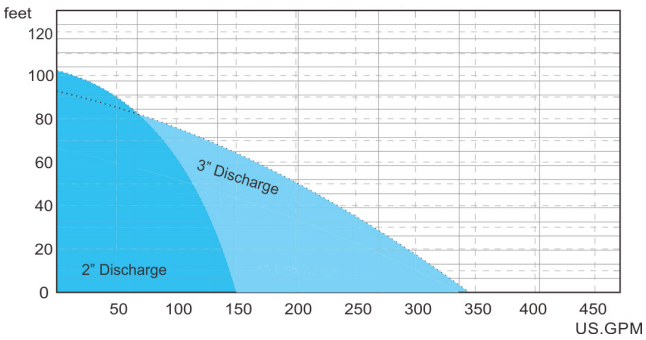
A Series Features

- 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



				MAX		
Model	HP	Dis.	Ø	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

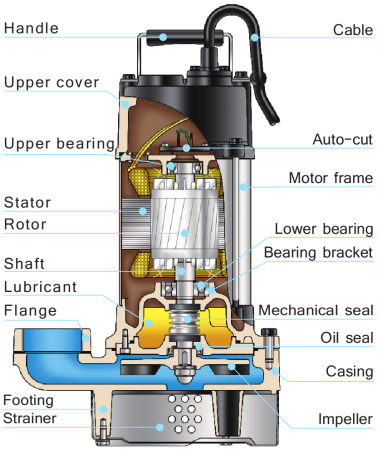
AN Series Features

- 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

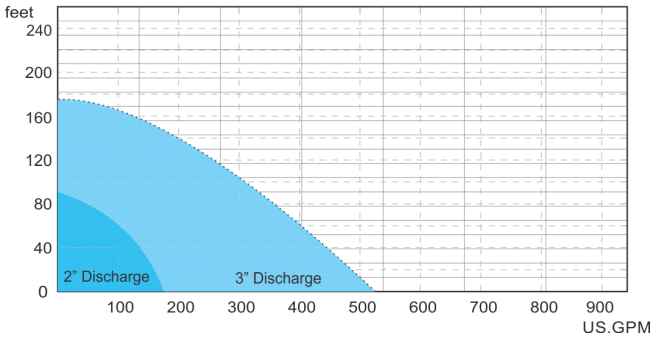
	Discharge	2" • 3"
Max	Liquid Temp.	32–108° F
	Applications	Dewatering/water features
	Submersion	100 ft
Type	Frequency	60 Hz
	Motor	2P • Dry Motor
	Insulation	Class B (5Hp: Class F)
	Protection	IP68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Impeller	Semi-Open, Vortex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

Applications

- Water features
- Flood control
- Sump drainage
- Dewatering



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"

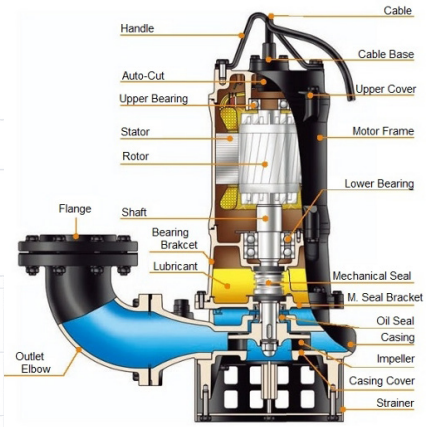
	Discharge	2" • 3"
Max	Liquid Temp.	32–104˚ F
	Applications	Dewatering
	Submersion	100 ft
Type	Frequency	60 Hz
	Motor	2P (3600 RPM) • Dry Motor
	Insulation	Class B • Class F (≥5Hp)
	Protection	IP68
	Protector	Auto-Cut (15Hp: MTS & MS)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Impeller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

AL Series Features

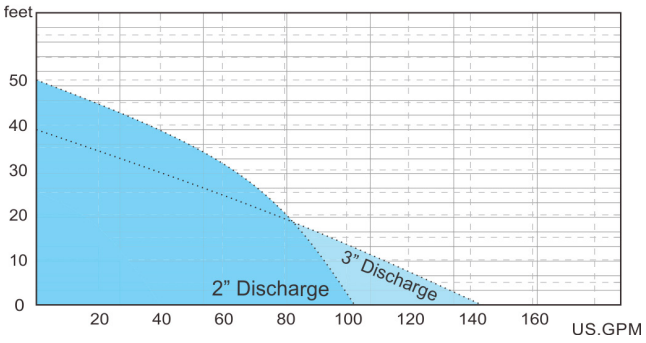
- Equipped with thermal motor protector and epoxy cable base treatment
- Water resistant and IP68 compliant
- Entire cast iron construction
- Compact design, high head, and high efficiency for wide range of use
- Pressure-reducing design
- 7.5Hp–15Hp triangular handle design for easy handling on guide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

Applications

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



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"	

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

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


U-Type Impeller

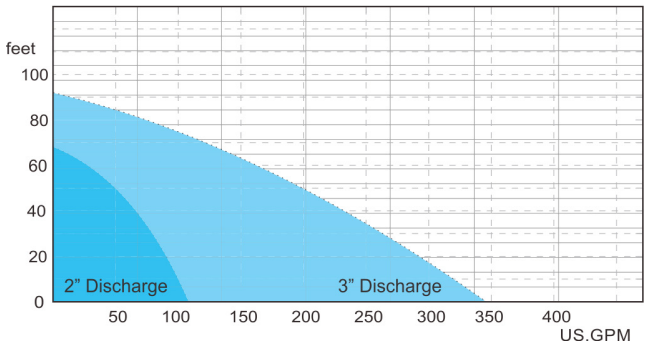

P-Type Impeller

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"

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

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

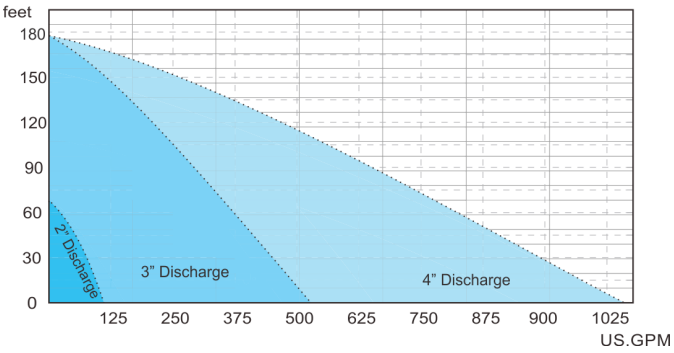
Applications

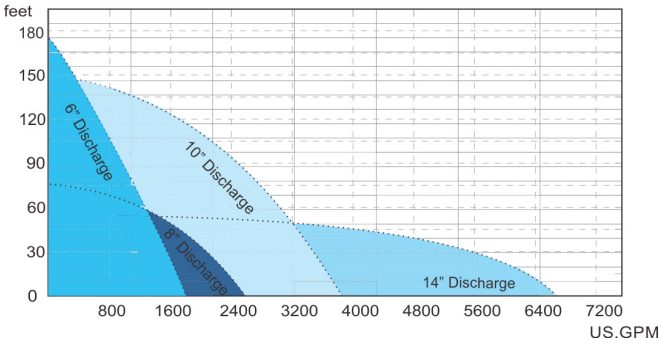
- Draining from basements, hotels, and factories
- Draining sewage from industrial process factories
- Emptying septic tanks, cesspits, and sewage pump stations
- Pumping surface and drainage water from garages and sprinkler systems

U-Type Impeller

P-Type Impeller

AF Series Curves





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

	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"
150AF/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

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

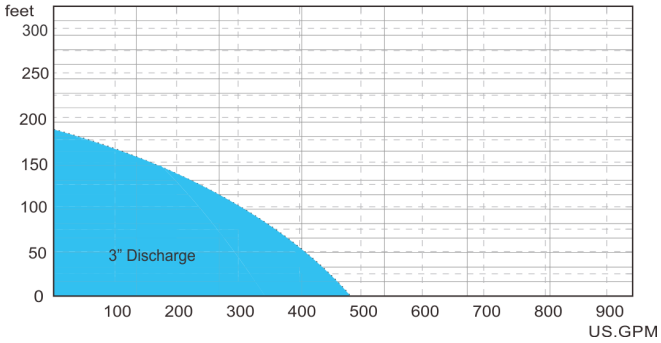
Applications

- **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

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

		MAX				
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"

+ COMING SOON

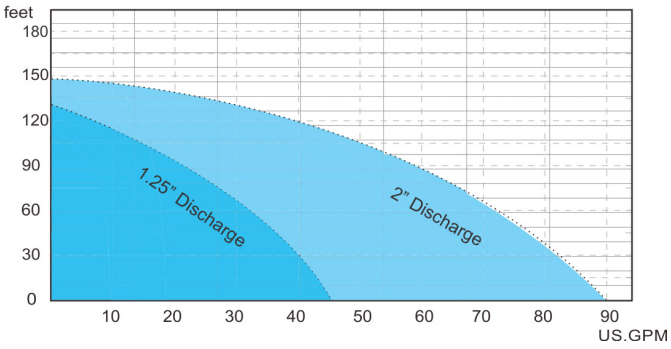
* External capacitors on single phase

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

Tungsten Carbide Impeller

Cutter Casing Cover

GF Series Curves



Model	HP	Dis.	Ø	MAX Head	MAX 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	—	—	COMING SOON
50GF27.5	10	2"	3	—	—	COMING SOON

* External capacitors on single phase

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

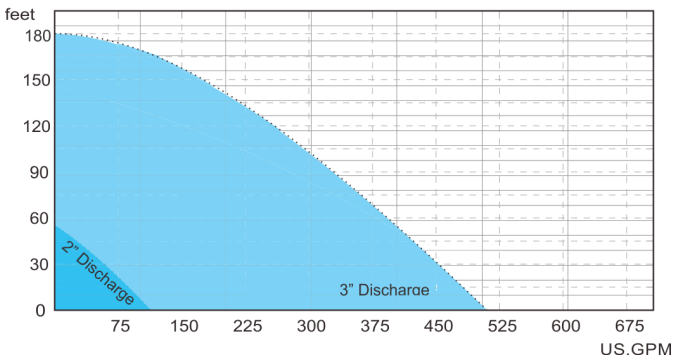
GF Series Features

- 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 wasterwater 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 Curves



				MAX	
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

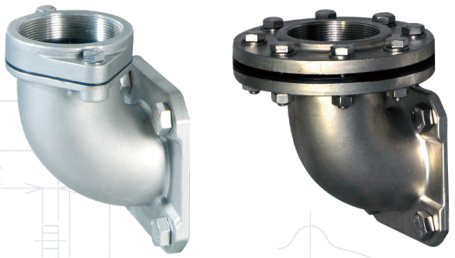
	Discharge	**2" • 3"**
Max	Liquid Temp. Applications Submersion	32–104˚ F Corrosive fluids 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor Class B (≤3Hp) • Class F (≥5Hp) IP68 Auto-cut • MTS & MS (≥5Hp) Ball Type Double Mechanical Seals 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/ elastometers, 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

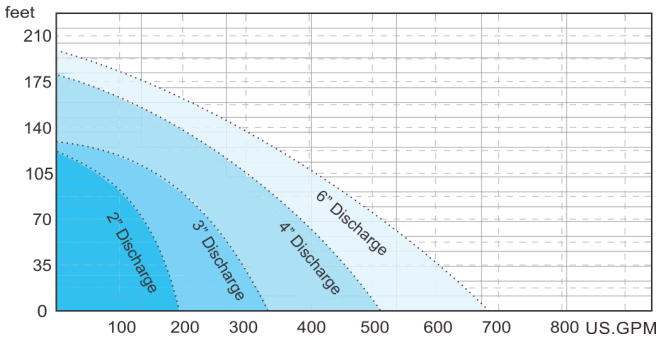
Applications

- 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

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

HD Series Features

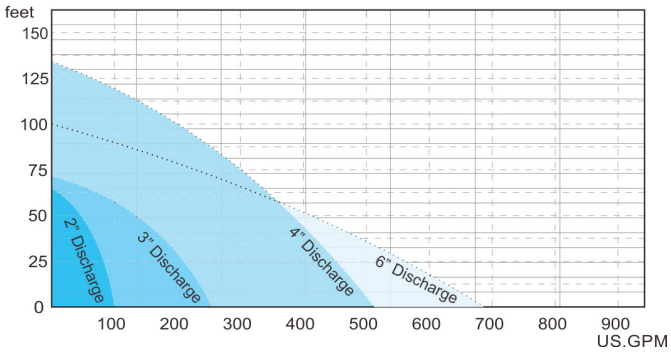
- Designed for civil engineering applications: its portability, double outer casing, and water cooling motor make it possible to run the pump in low water levels
- IP68 standard epoxy resin cable, automatic rest motor protector, and silicon carbide double mechanical seal make it durable and leakproof
- 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

HD flange & thread connections

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

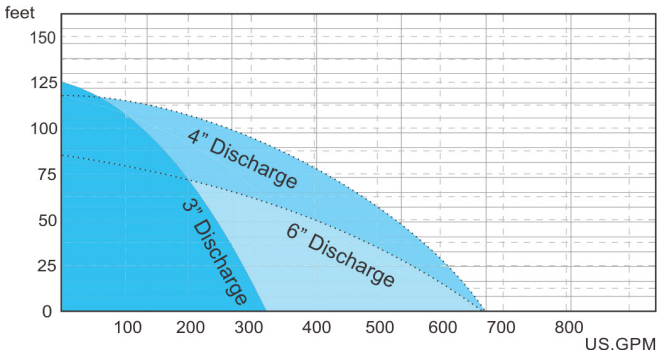
IC Series Features

- 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-resistent 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 resevoirs

HDG Series Curves

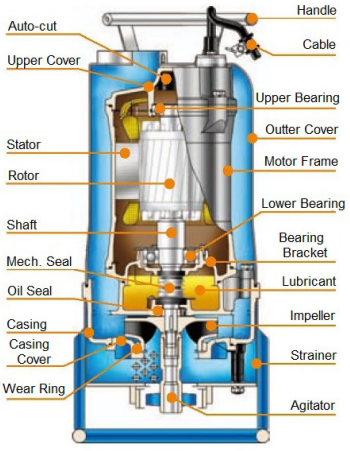


HDG Series Features

- 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

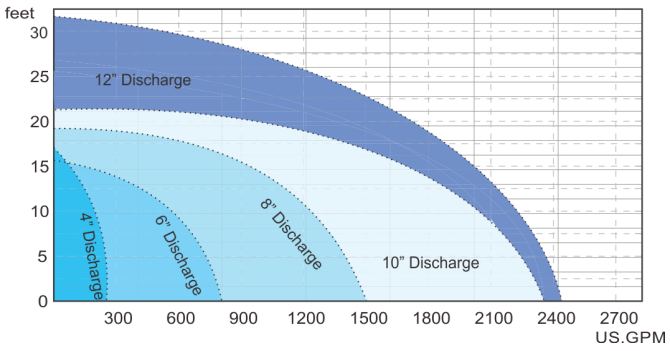


MAX

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

L Series Curves



MAX

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

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

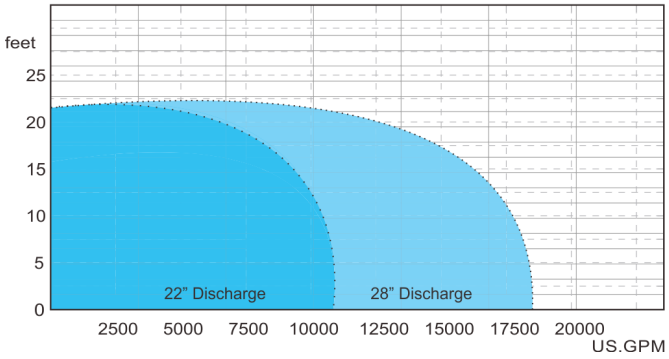
L Series Features

- 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

LA Series Curves



LA Series Features

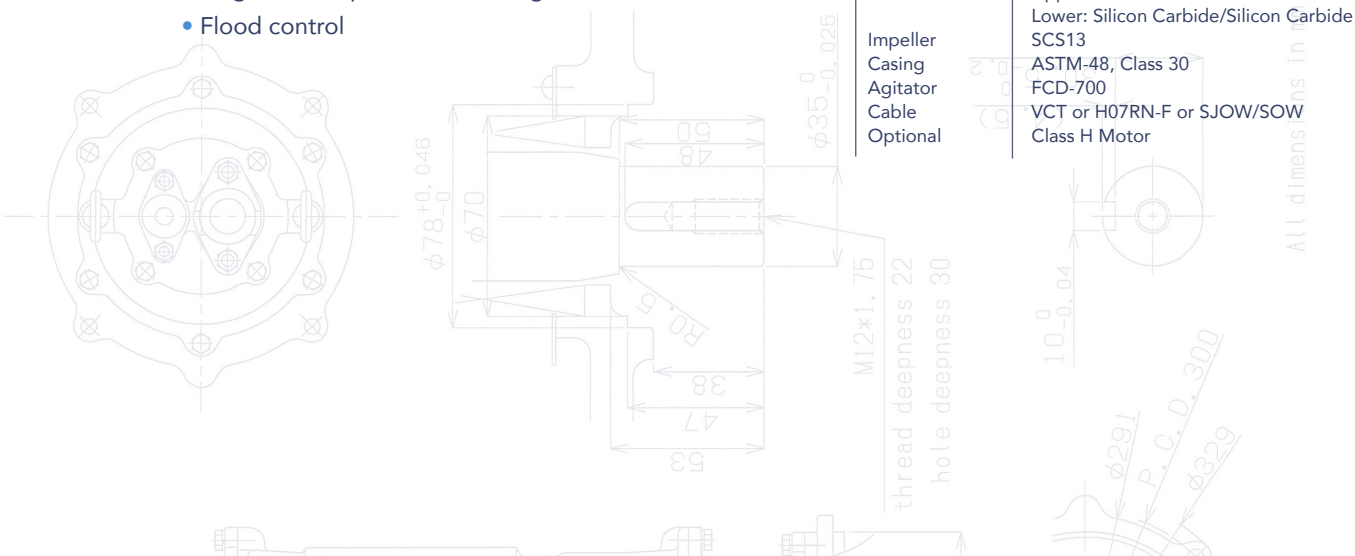
- Motor connects directly to impeller for highest efficiency
- Shaft and impeller precisely balanced to reduce noise and extend product life
- Standard protection: thermal protector & mechanical leakage detector; other protection devices available
- Design of impeller and vanes produces higher pump efficiency
- 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

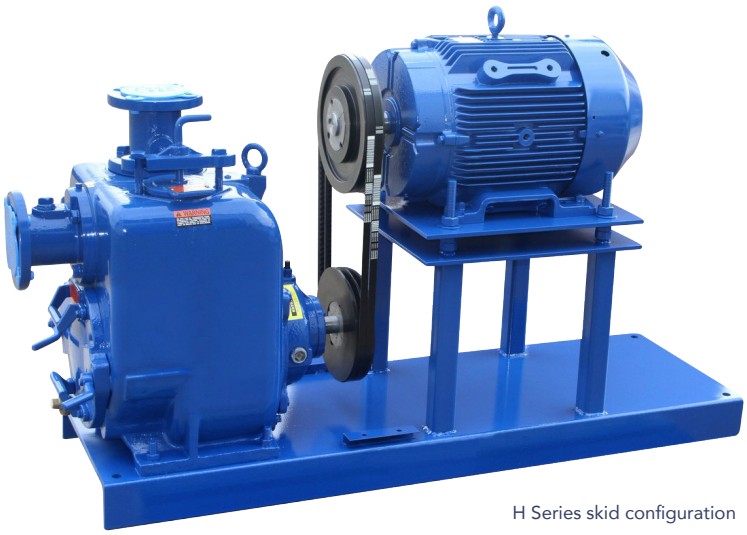
	Discharge	22" • 28"
Max	Liquid Temp.	32–180° F
	Applications	Irrigation/Dewatering
	Submersion	100 ft
Type	Frequency	60 Hz
	Motor	10P • Dry Motor (50–60Hp)
		12P • Dry Motor (75–100Hp)
	Insulation	Class F
	Protection	IP68
	Protector	MTS & MS • Sacrificial Anode
	Bearing	Ball Type
	Mechanical Seal	Double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



Suction Lift Series

Self-Priming Pumps

16



H Series skid configuration

Model	HP	Dis.	Ø	MAX Head	MAX 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

Operation Conditions	**Discharge**	**2" • 3" • 4" • 6" • 8" • 10"**
	Density of Medium	1.0–1.38*103Kg/m³
	PH	Within 5–9
	Solid Max Diameter	>3"
	Max Suction Lift	25 ft
	Volume Ratio of Solids	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, Alumnium, Bronze H Series: Cast Iron, ADI, CD4MCU, 316 Stainless Steel, Alloy 20, C276

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, replacable wear plate, and removable rotating assembly

Applications

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

rotating assembly

semi-open impeller

vortex impeller

DBP Series Highlights

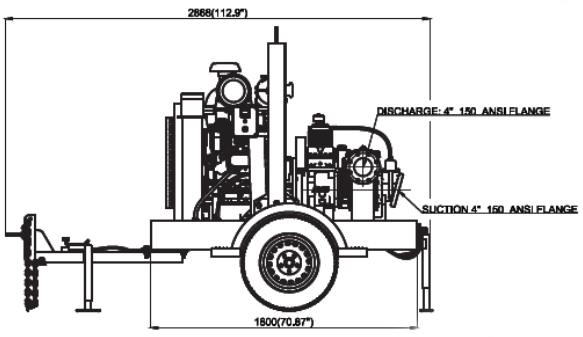
Mobility Our units, with features that make it easy to transport, are made to go where you go.

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

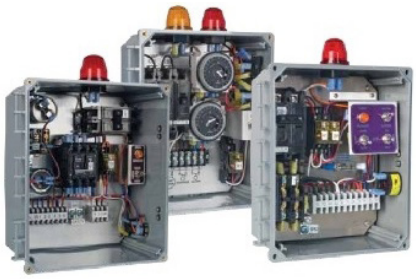
Features

- **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



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.

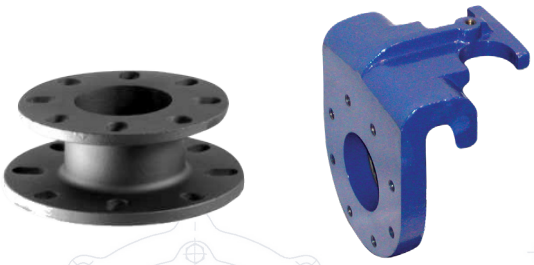
Applications Sewage, wastewater pumping, and drainage where pumps must be regularly maintained and serviced, such as wastewater treatment and sewage plants

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

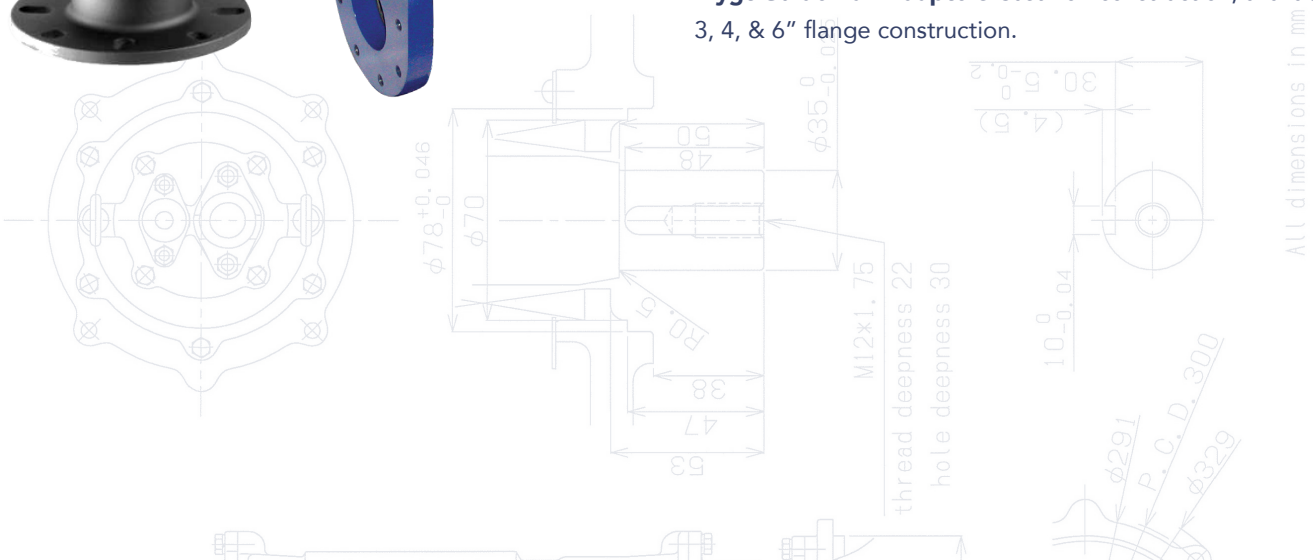
3-hook & 4-hook U-type stainless steel brackets and mounting bracket for pump lift stations.



Adapters

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

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



Flange (F)

Flange (EF) w/ bolt kit

Double Flange Set (L2F)

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

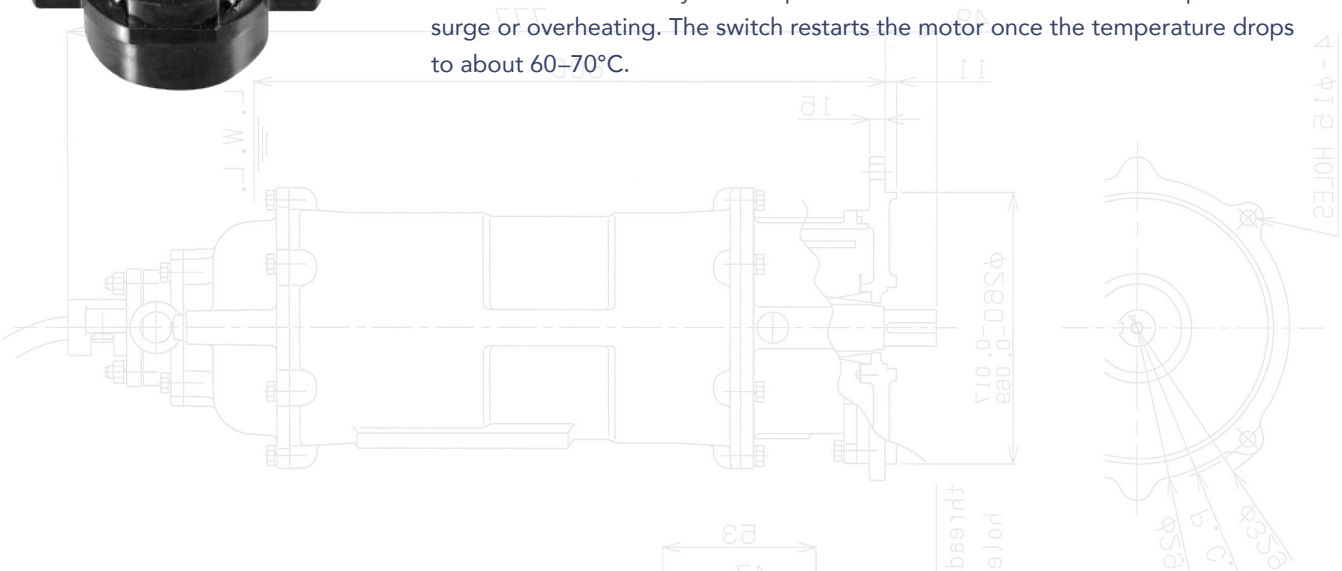
The moisture sensor is used to detect moisture leakage through the mechanical seals. This occurs when the seal has been worn down or damaged; if moisture is found, the sensor will then trigger and transmit a signal to the control panel. The control panel will then set off warning signals and/or power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

HCP PUMPS America

Agent

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