

HCP
PUMPS
America



2019

General Catalog

professionalism • innovation • service • commitment



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Submersible Portable Dewatering Pumps

01

The graph illustrates the relationship between discharge rate (US GPM) on the x-axis and height (feet) on the y-axis. The x-axis ranges from 0 to 90 US GPM, and the y-axis ranges from 0 to 100 feet. Two curves are shown: a 1" Discharge curve and a 2" Discharge curve. The 1" Discharge curve starts at approximately 55 feet and 5 GPM, while the 2" Discharge curve starts at approximately 55 feet and 15 GPM. Both curves show a decrease in height as the discharge rate increases.



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. 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 Casing Impeller Cable	ADC12 ADC12 SUS410 SUS304 Upper: Carbon/Ceramic Lower: Silicon/Silicon Synthetic rubber Urethane Rubber + SPCC VCT or H07RN-7 or SJOW/SOW

- 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

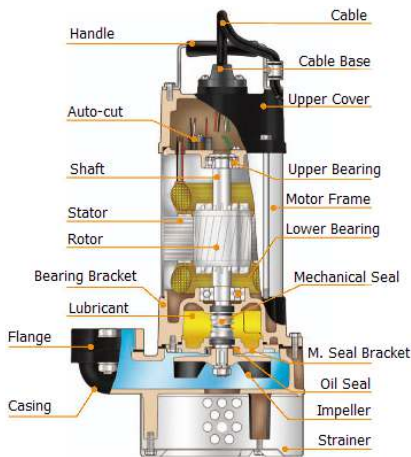
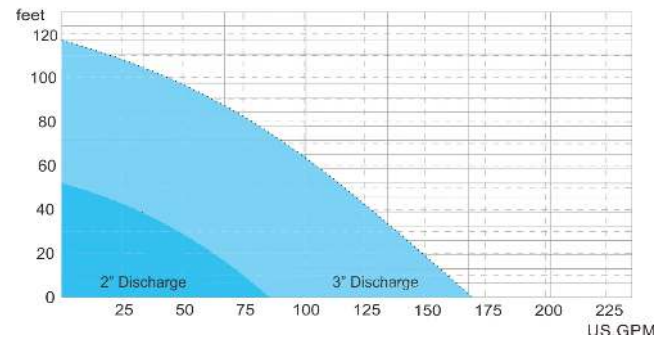
- Water cooling motor with rubber suction pads for residential removal as low as 1 mm (0.39"). Starts up at levels of 5mm.
- Designed to remove water from flat surfaces
- Equipped with an auto-cut motor protector and water-cooling motor
- Impeller & hydraulic components made of durable urethane rubber
- Standard discharge: Outlet Discharge 1" LOT1-74 (Optional 2" LOT2-74)

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

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



A Series Curves



A-05A/B

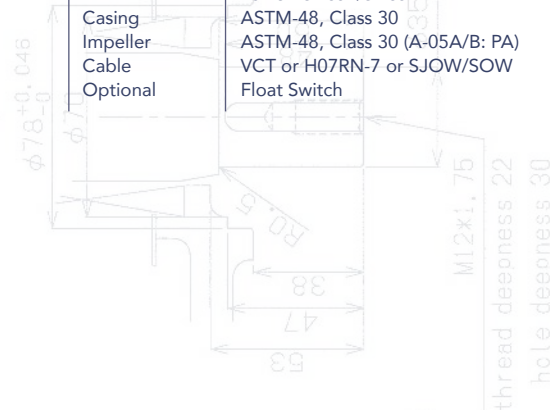


A-21/31

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	1	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 Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor (3600 RPM) (A-05A: Oil Motor) Class B IP68 Auto-Cut (0.5Hp 1Ø: Thermal) Ball Type Double Mechanical Seals (A-05A: Single Seal) 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	



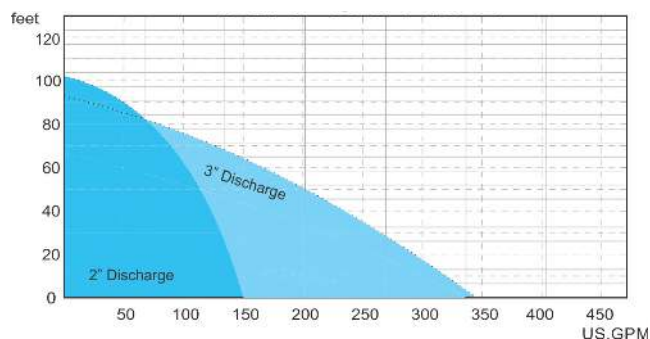
A Series Features

- 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

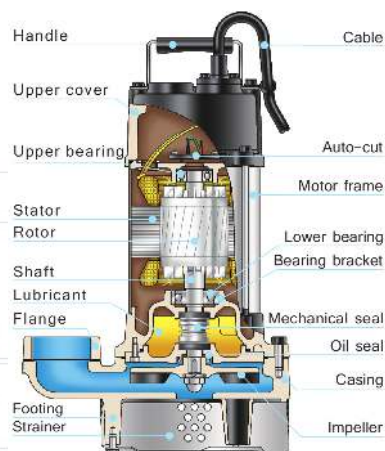
	Discharge	2" • 3"
Max	Liquid Temp. Applications Submersion	32–108° F Dewatering/water features 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor Class B (5Hp: Class F) IP68 Auto-Cut Ball Type Double Mechanical Seals Semi-Open, Vortex
Material	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 ASTM-48, Class 30 VCT or H07RN-7 or SJOW/SOW Float Switch

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

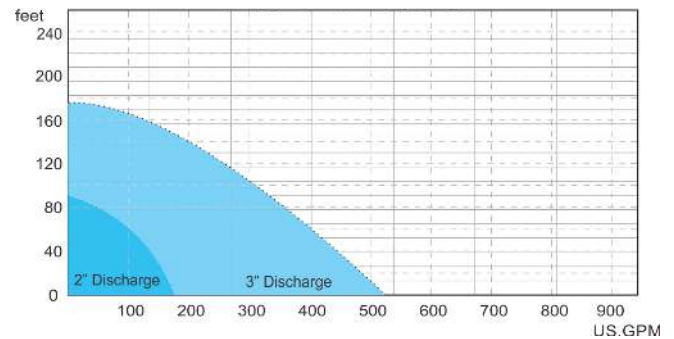
Applications

- Water features
- Flood control
- Sump drainage
- Dewatering





AL Series Curves



Model	HP	Dis.	Ø	MAX		
				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"

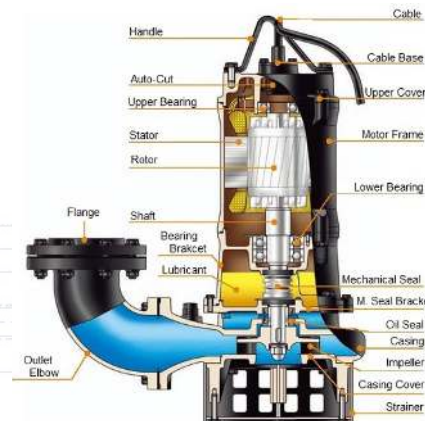
AL Series Features

- 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 VCT or H07RN-7 or SJOW/SOW Float Switch



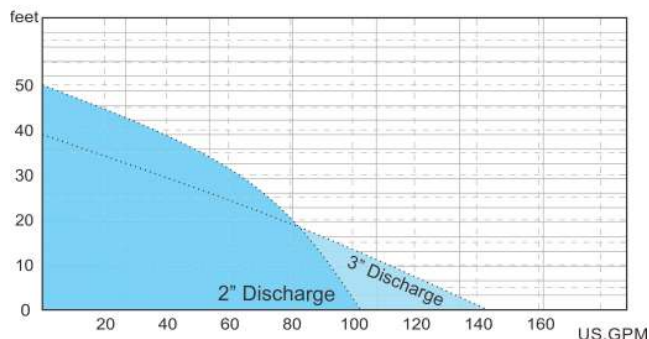
All dimensions in mm

F Series

Effluent Submersible Pumps

05

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-21U	1	2"	1/3	45	93	1.5"
F-21P	1	2"	1/3	50	103	0.75"
F-31U	1	3"	1/3	38	143	1.25"

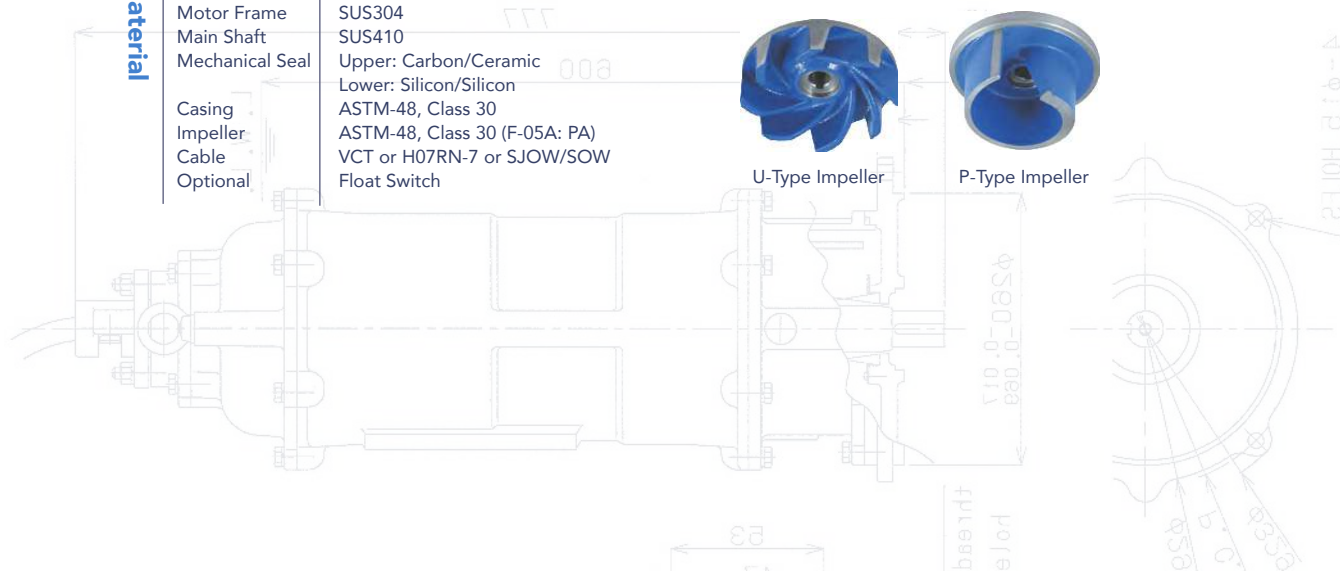
	Discharge	1.25" • 2" • 3"
Max	Liquid Temp. Applications Submersion	32–104° F Effluent/drainage 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor (F-05A: Oil motor) Class B IP68 Auto-Cut (0.5Hp 1Ø: Thermal) Ball Type Double Mechanical Seals (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 ASTM-48, Class 30 (F-05A: PA) VCT or H07RN-7 or SJOW/SOW Float Switch

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

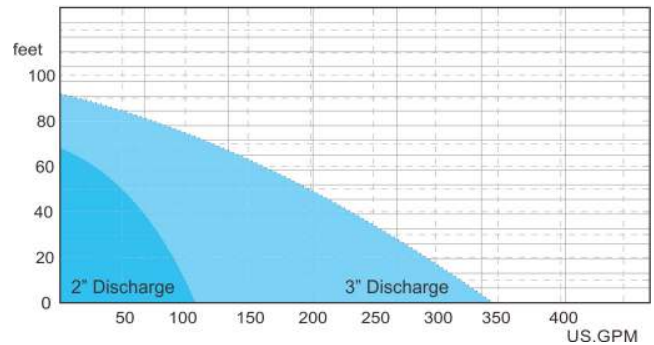
Applications

- 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





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"	1/3	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
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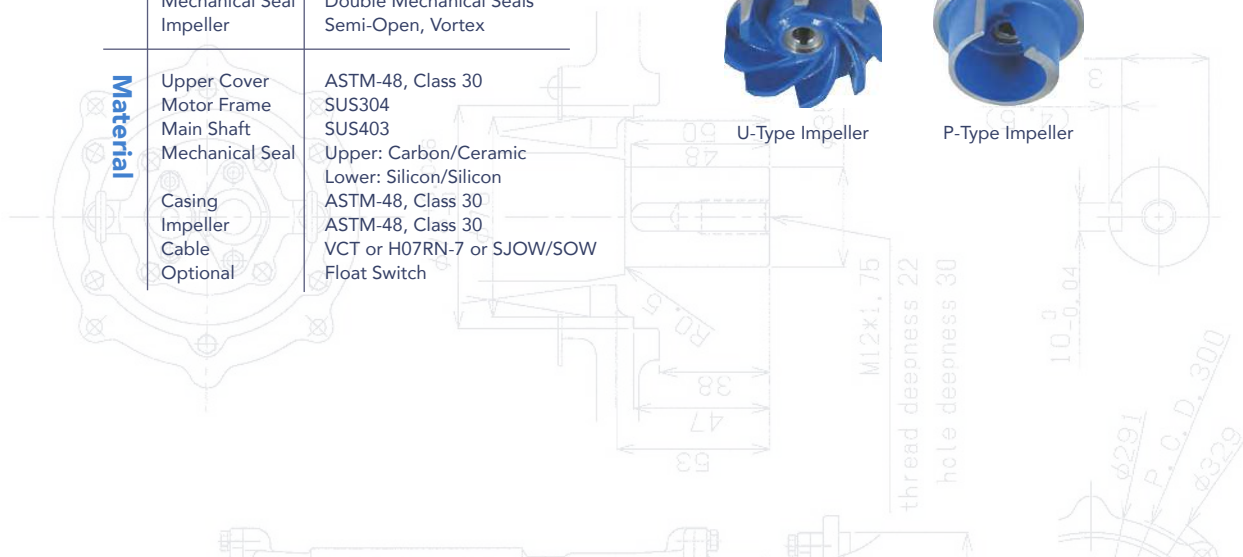


U-Type Impeller

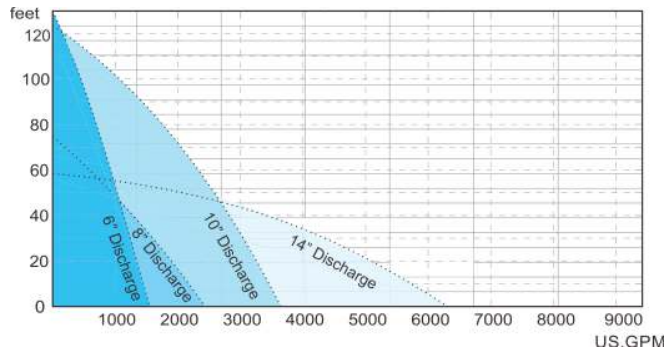
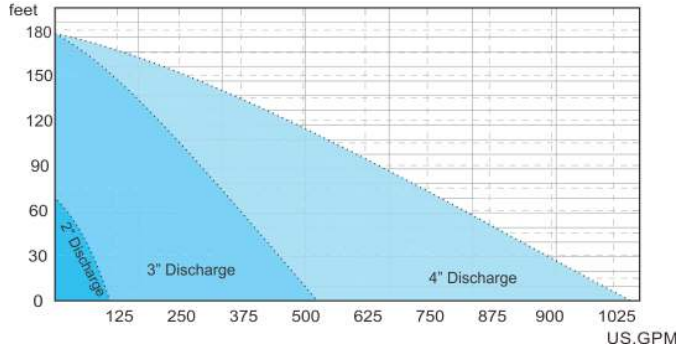


P-Type Impeller

ALL dimensions in mm



AF Series Curves



— MAX —						
Model	HP	Dis.	Ø	Head	Flow	Solids
50AFP/U/E	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"	7.5–30	6"	3	155	1570	3"
AF-8"	15–20	8"	3	75	2420	3"
AF-10"	30–60	10"	3	138	3700	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.	32–104° F
	Applications	Municipal & Industrial Wastewater
Type	Submersion	100 ft
	Frequency	60 Hz
Type	Motor	2P–6P • Dry Motor
	Insulation	Class B (≤3Hp) • Class F (≥5Hp)
Type	Protection	IP68
	Protector	Minature Thermal Sensor (MTS) • Overtemp
Type	Bearing	Moisture Sensor (MS) • Auto-Cut ≤3Hp
	Mechanical Seal	Ball Type
Type	Impeller	Double Mechanical Seals
		Enclosed-channel • Semi-Open • Vortex
Material	Upper Cover	ATSM-48, Class 30
	Motor Frame	ATSM-48, Class 30
Material	Main Shaft	SUS420J2 • SUS403 • SUS410
	Mechanical Seal	Upper: Carbon/Ceramic
Material	Casing	Lower: Silicon/Silicon
	Impeller	ASTM-48, Class 30
Material	Wear Ring	ASTM-48, Class 30
	Cable	ASTM-48, Class 30
Material	Optional	PNCT 30 ft & 50 ft • 10 Hp: VCT/SJOW/SOW
		• 10–30Hp: H07RN-F
Material		Seal Leak & Thermal Protection
		(Standard for ≥5Hp)

AF Series Features

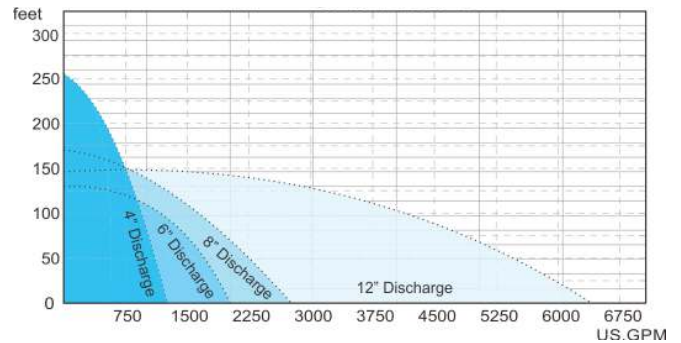
- International standard design: industrial grade cable, air-cooled motor, silicon carbide seals, and highest grade cast iron construction
- P/U/E impellers capable of performing in sewage applications with solids and fibrous materials
- Full range of pumps capable of meeting high head and/or high flow 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



IF Series Curves



IF Series Features

- International standard design: industrial grade cable, oil cooled motor, carbon ceramic seals, and highest grade cast iron construction
- E impeller capable of performing in sewage applications with solids and debris
- 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
- All IFs come standard with seal leak protection, thermal protection, and 50-ft cable

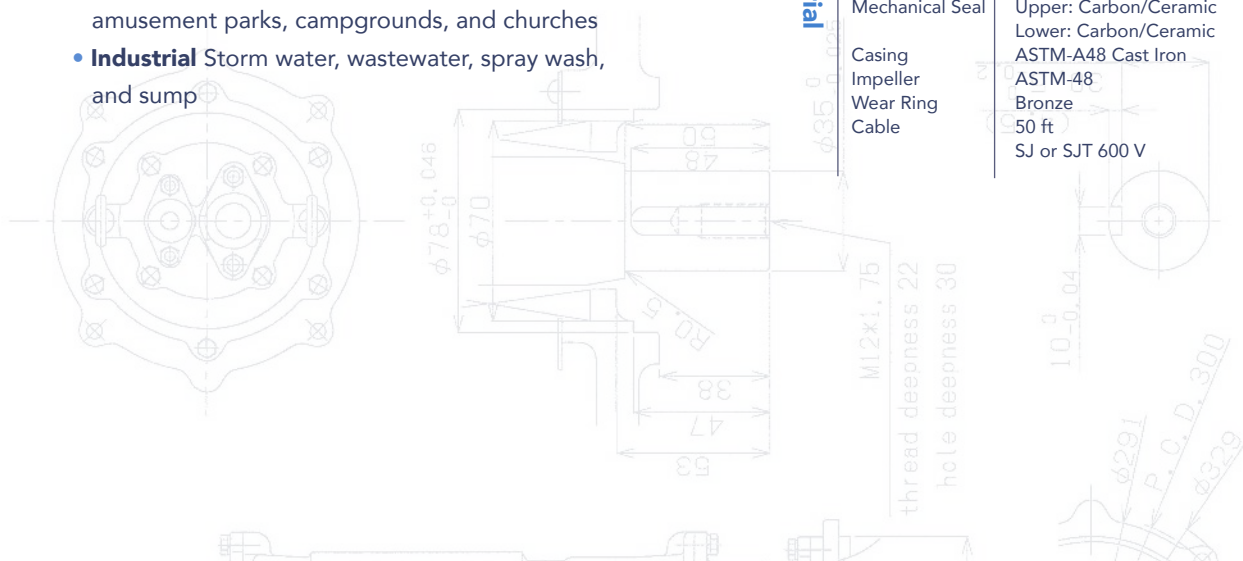
Applications

- **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

MAX						
Model	HP	Dis.	Ø	Head	Flow	Solids
IF-4"	10-60	4"	3	255	1300	3"
IF-6"	10-60	6"	3	130	2060	3"
IF-8"	30-125	8"	3	170	2695	3"
IF-12"	50-250	12"	3	148	6340	4"

	Discharge	4" • 6" • 8" • 12"
Max	Liquid Temp. Applications	32-104° F Sewage Systems, Commercial, & Industrial Wastewater
	Submersion	100 ft
Type	Frequency Motor Insulation Protection Protector	60 Hz 4P-6P • Squirrel Cage Induction Class F Thermal, Moisture Moisture Sensor (MS) Thermal Sensor (TS)
	Bearing Mechanical Seal Impeller	Ball Type Double Mechanical Seals ASTM-A48
Material	Upper Cover Motor Frame Main Shaft Mechanical Seal	ASTM-A48 Cast Iron ASTM-A48 Cast Iron 304 Stainless Steel Upper: Carbon/Ceramic Lower: Carbon/Ceramic
	Casing Impeller Wear Ring Cable	ASTM-A48 Cast Iron ASTM-A48 Bronze 50 ft SJ or SJT 600 V

All dimensions in mm

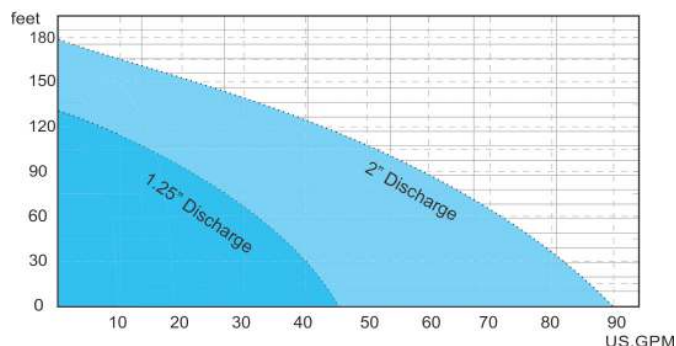


GF Series

Submersible Grinder Pumps

09

GF Series Curves



MAX					
Model	HP	Dis.	Ø	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	—	—
50GF25.5H	7.5	2"	3	145	90
50GF27.5H	10	2"	3	178	90

COMING SOON
COMING SOON

* External capacitors on single phase



	Discharge	1.25" • 2" • 3"
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

GF Series Features

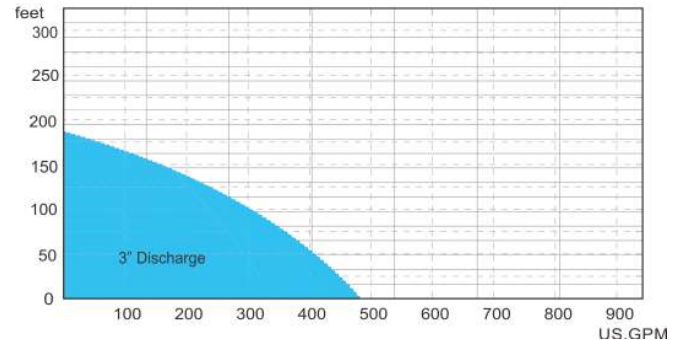
- Vortex impeller design prevents clogging
- Radial cutter/cutter ring are corrosion resistant and hardened to 55-60 Rockwell C
- Single phase grinder pump equipped with centrifugal switch & internal capacitor motor design provides 5x higher torque than average capacitor starting motor
- Assembled professionally 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



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-hardened casing cover designed to withstand abrasions

Applications

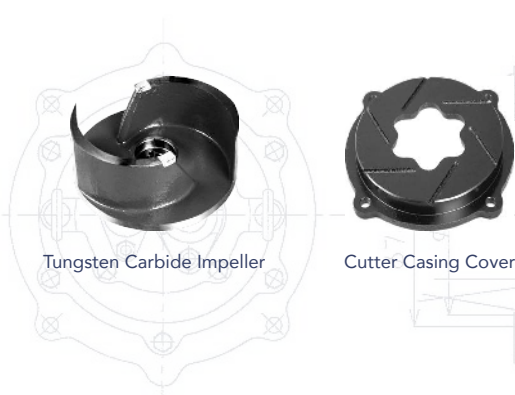
- Drainage of effluent containing debris from factories
- Effluent management, water accumulation, and/or farms

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"

* External capacitors on single phase

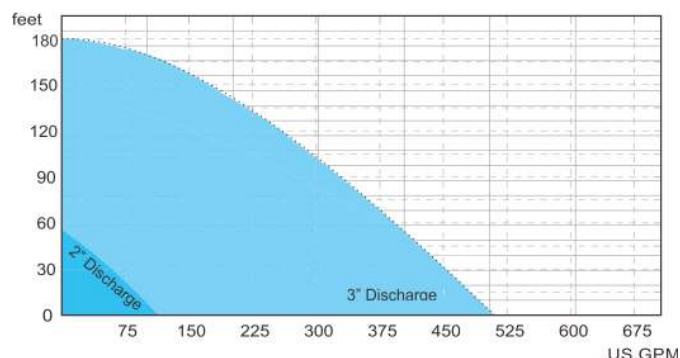
COMING
SOON

Discharge		3"
Max	Liquid Temp.	32-104° F
	Applications	Effluent
Type	Submersion	100 ft
	Frequency	60 Hz
Material	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
	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



All dimensions in mm

SA/SF Series Curves



SA/SF Series Features

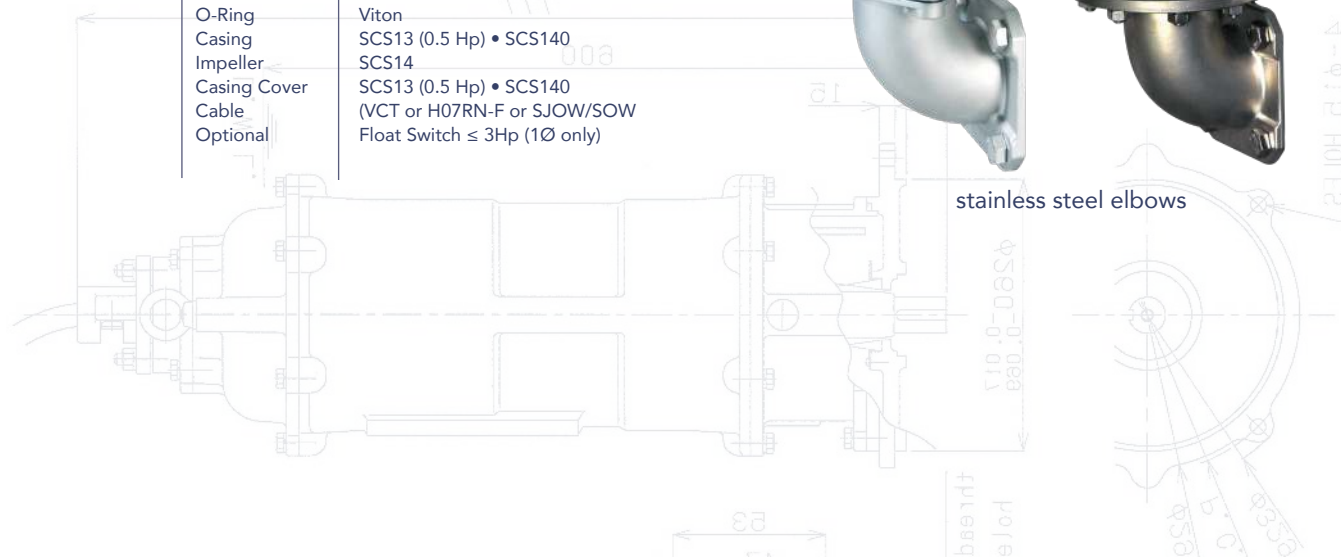
- Exceeds industrial design standard with cooled motor, double mechanical seals, HCP auto-cut feature (internal temperature & amperage protection), chemically protected Viton O-rings/elastomers, and 316 stainless steel material of construction
- Stainless steel submersible pump line is suitable for harsh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

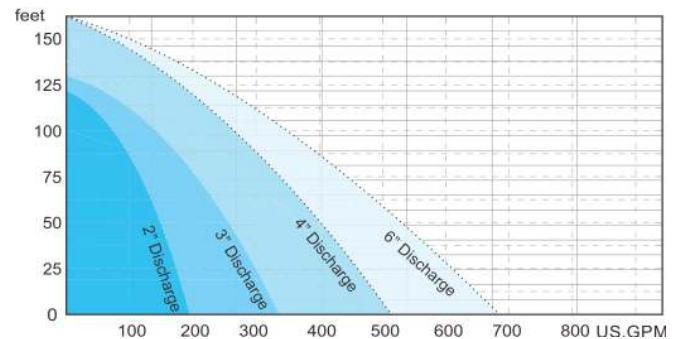
— MAX —					
Model	HP	Dis.	Ø	Head	Flow
50SA	0.5–1	2"	1/3	53	96
80SA	2–15	3"	1/3	182	512
50SFU	0.5–1	2"	1/3	49	97
80SFU/P	2–15	3"	1/3	180	515

	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/SOV) Float Switch ≤ 3Hp (1Ø only)





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 reset 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

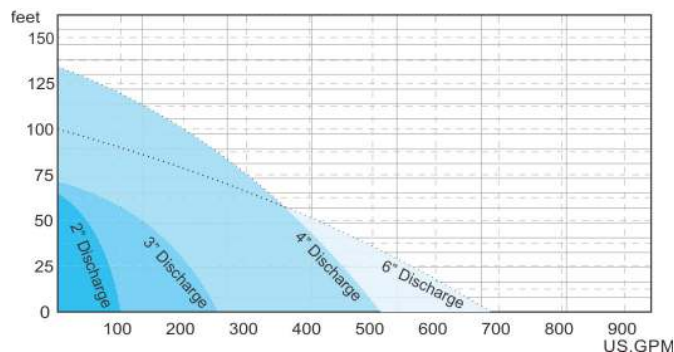
- Dewatering fishponds, basements, and/or cellars
- Flood control

	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	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



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

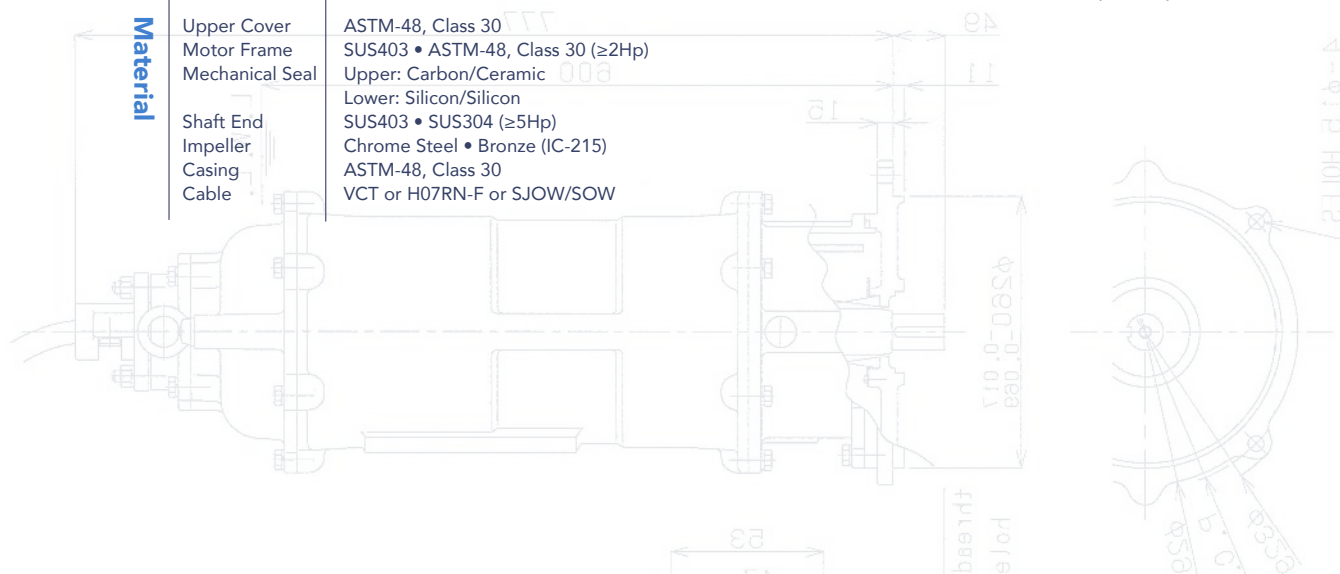
	Discharge	2" • 3" • 4" • 6"
Max	Liquid Temp. Applications Submersion	32–104° F Irrigation & Dewatering 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor Class B • Class F (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Enclosed Channel, Semi-Open
Material	Upper Cover Motor Frame Mechanical Seal Shaft End Impeller Casing Cable	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

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

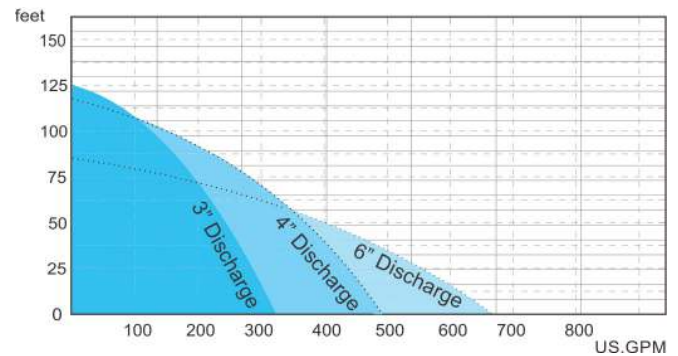
Applications

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





HDG Series Curves

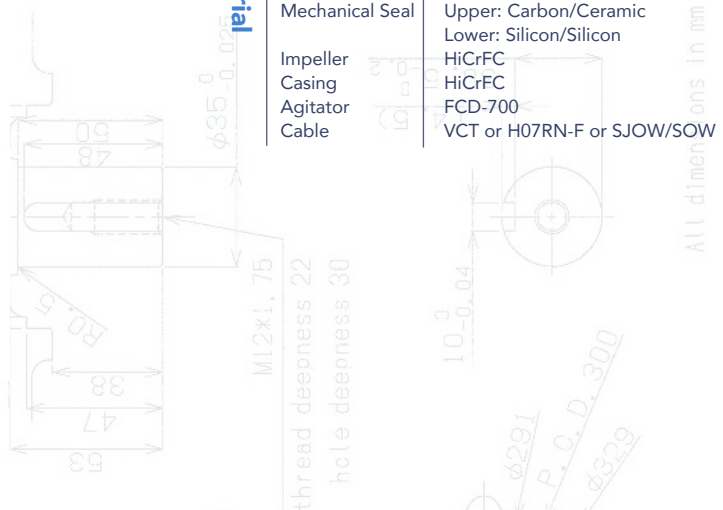
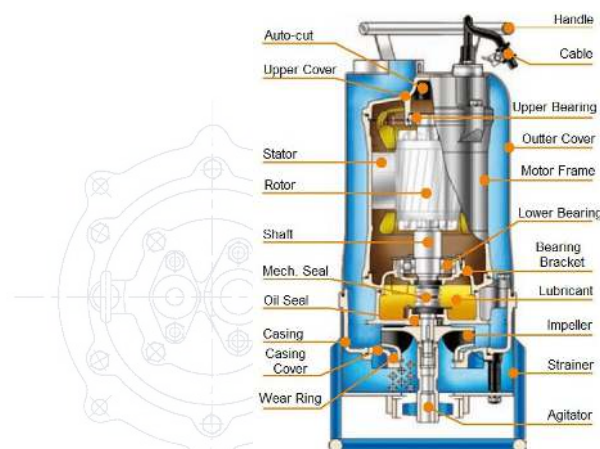


HDG Series Features

- 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



All dimensions in mm

— 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

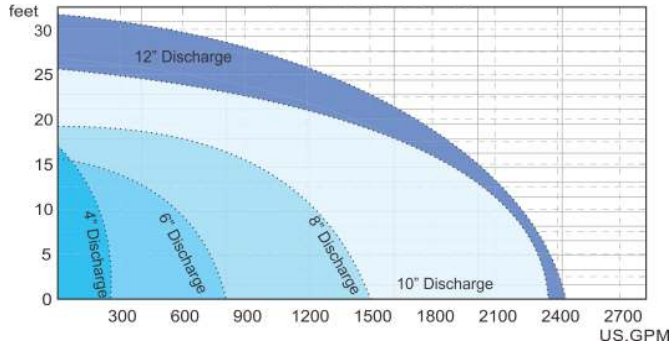
	Discharge	3" • 4" • 6"
Max	Liquid Temp. Applications Submersion	32–104° F Dewatering 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 2P • Dry Motor Class B • Class F (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Semi-Open • Enclosed Channel
Material	Upper Cover Motor Frame Main Shaft Mechanical Seal Impeller Casing Agitator Cable	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

L Series

Large Volume Submersible Pumps

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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	10"	3	27	2270
L-1220	20	12"	3	32	2480



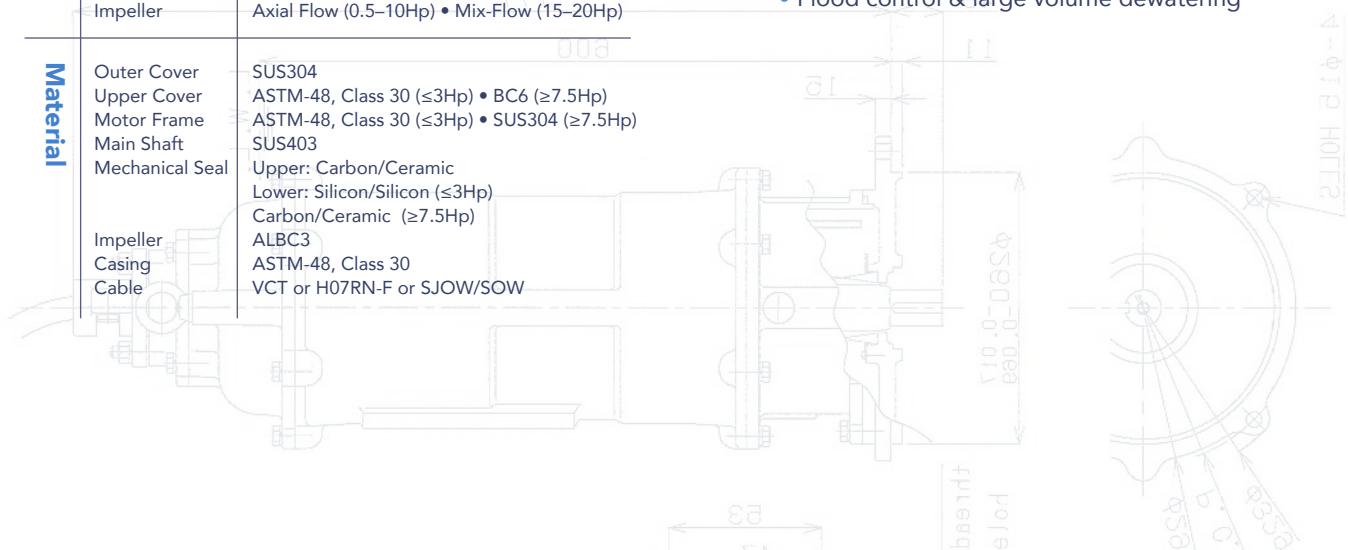
L Series Features

- 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

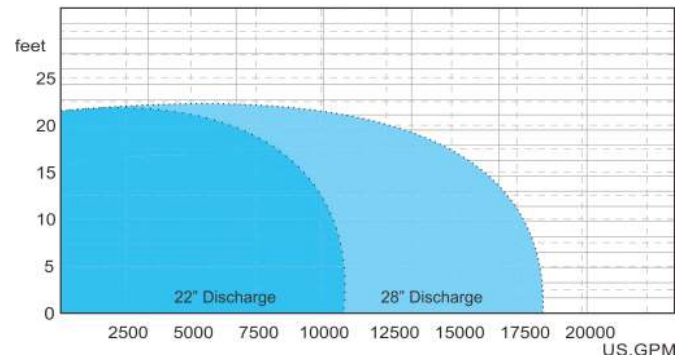
- Pumping/drainage for large volume applications
- Water supply for landscapes, water features, cooling in power plants, or drainage for industries
- Water extraction from rivers & lake
- Flood control & large volume dewatering

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 (0.5–3Hp) 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	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





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

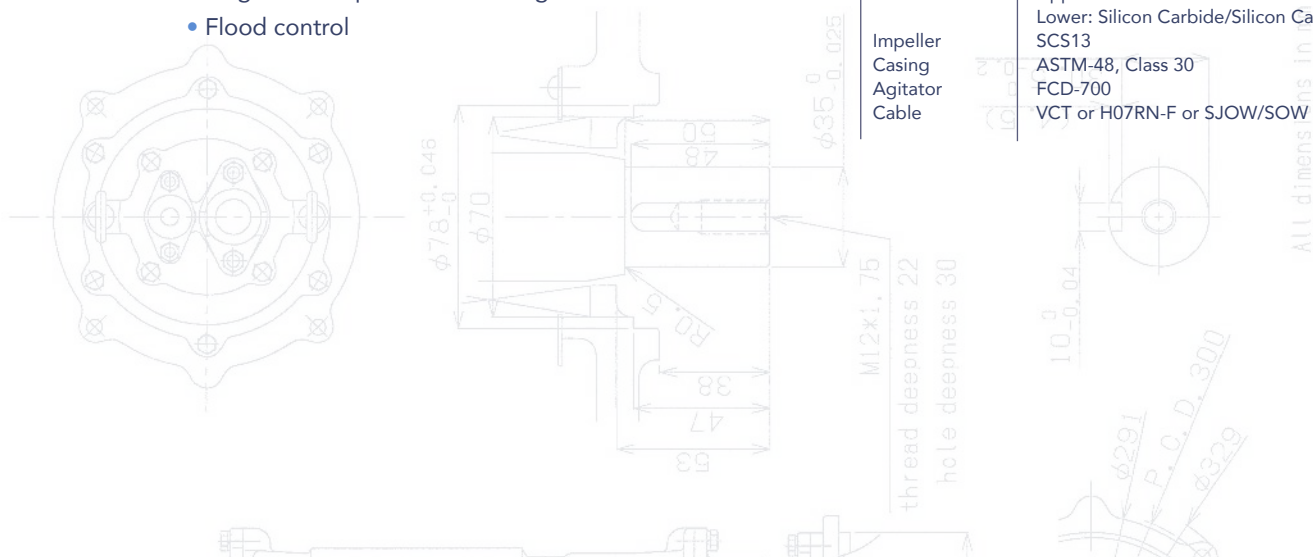
Applications

- 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

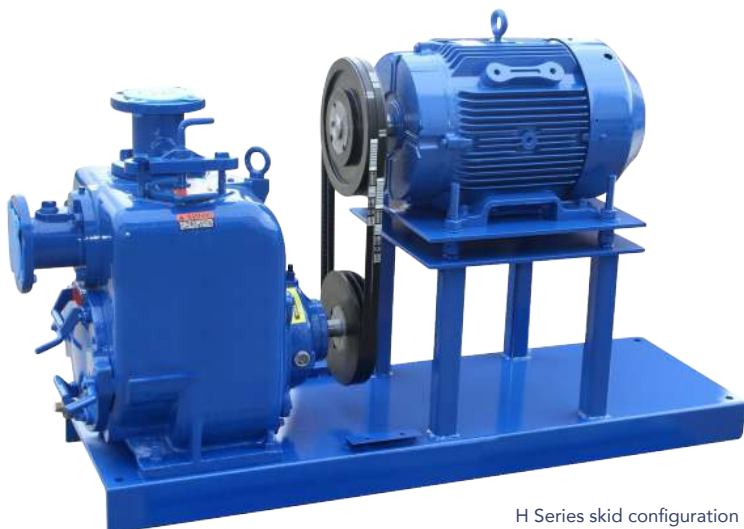
	Discharge	22" • 28"
Max	Liquid Temp. Applications Submersion	32–180° F Irrigation/Dewatering 100 ft
Type	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Impeller	60 Hz 10P • Dry Motor (50–60Hp) 12P • Dry Motor (75–100Hp) Class F IP68 MTS & MS • Sacrificial Anode Ball Type Double Mechanical Seals Axial Flow
Material	Wear Ring Upper Cover Motor Frame Main Shaft Mechanical Seal Impeller Casing Agitator Cable	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



Suction Lift Series

Self-Priming Pumps

17



H Series skid configuration

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" 100 ft 2%
Specifications	Impeller Diameter Rotary Speed	6–18" P Series: 550 RPM–2150 RPM H Series: 850 RPM–2150 RPM
	Flow Rates	P Series: 20 GPM–5500 RPM H Series: 25 GPM–1500 RPM
	Head	P Series: 550 RPM–2150 RPM H Series: 850 RPM–2150 RPM
	Horsepower	P Series: 1Hp–125Hp H Series: 1Hp–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

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



rotating assembly



semi-open impeller





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

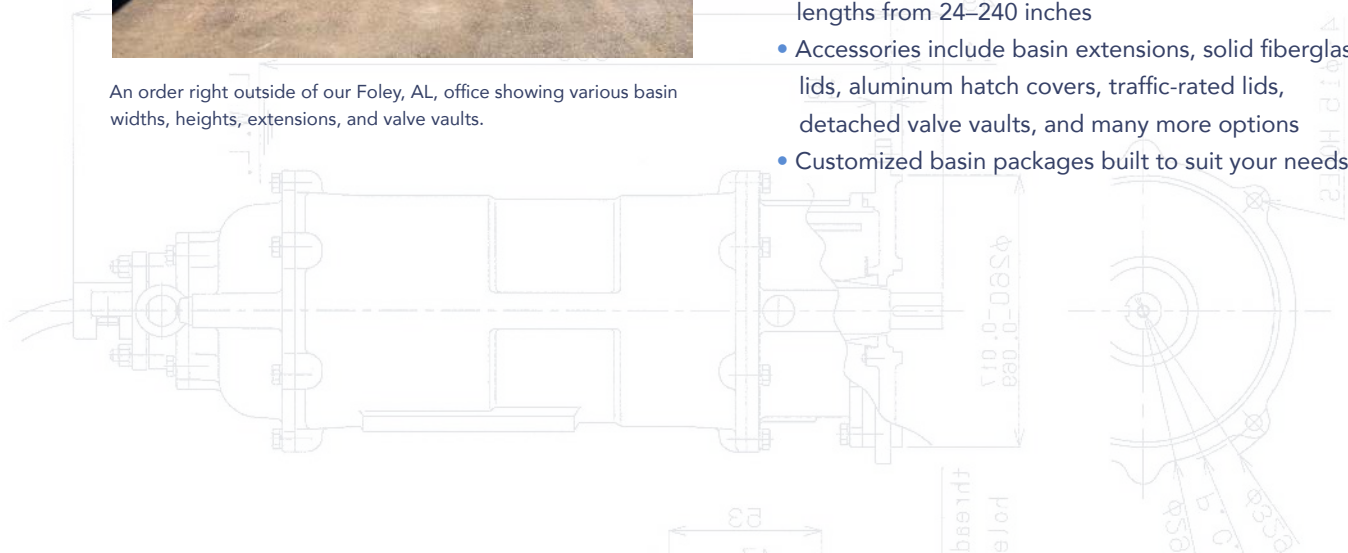
- Plug-In Pedestal/Post A
- Indoor/Outdoor High Water Alarms w/ Battery Backup
- Plug-in/Standard Junction Boxes
- Custom Junction/Connection Boxes
- Mechanical Control Duty Switches
- Standard & Heavy Duty Switches
- Narrow & Wide-Angle Float Switches
- Pump Up & Pump Down Float Switches
- Aerobic Control 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



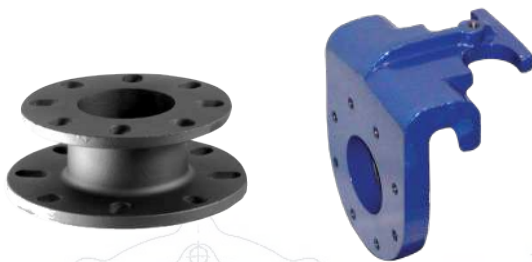
Mercury & Mechanical Floats

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

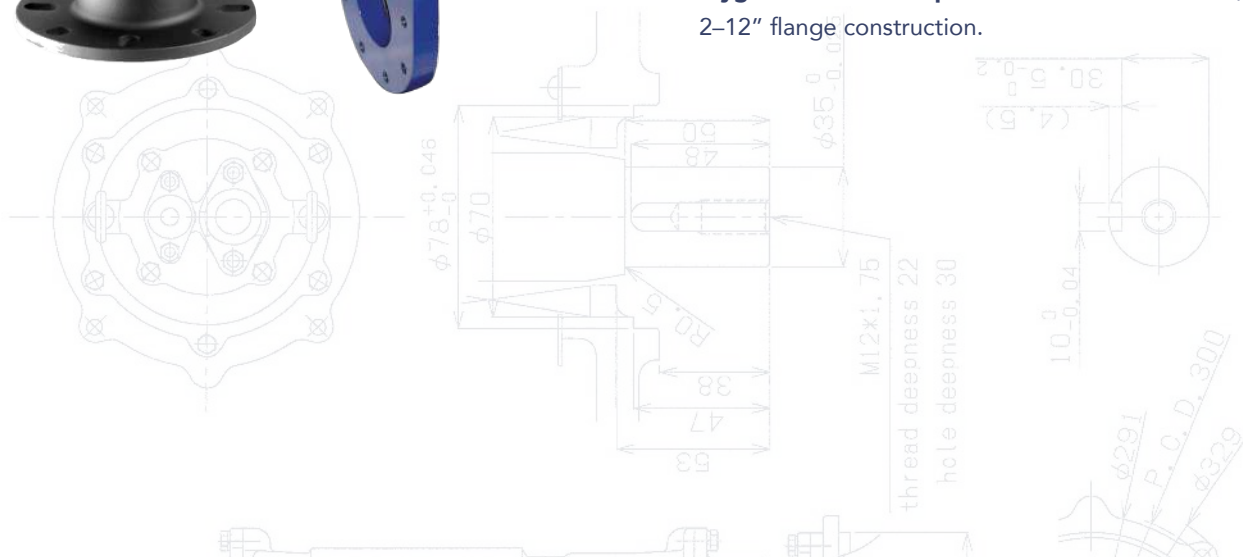
3-hook & 4-hook U-type stainless steel brackets and mounting bracket for pump lift stations.



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 2–12" flange construction.





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.



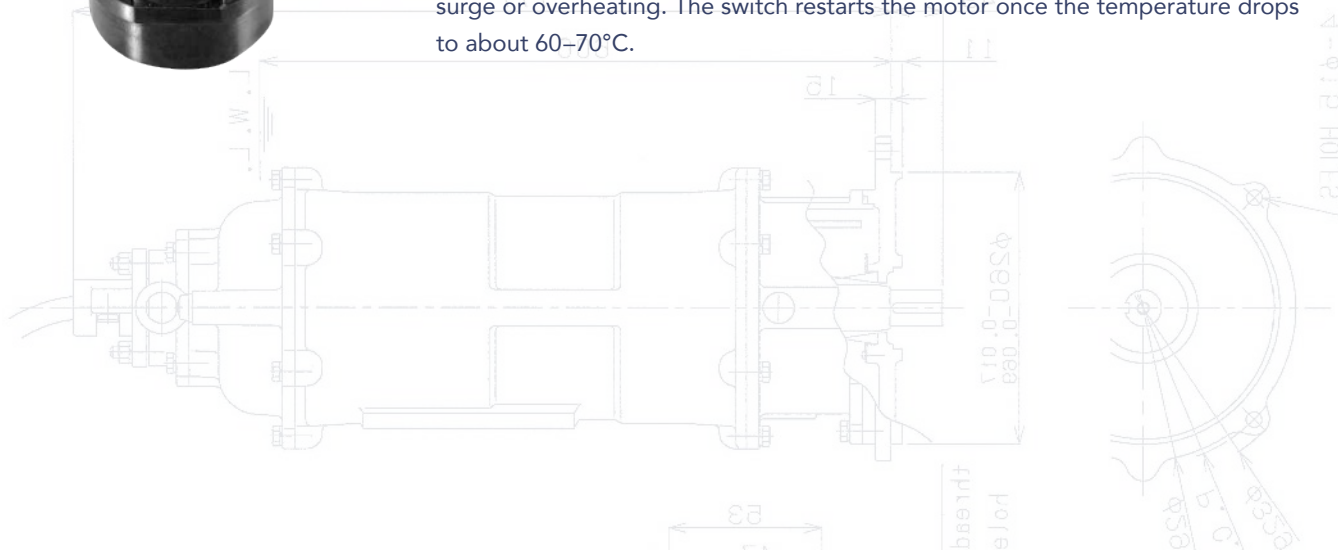
Miniature Thermal Sensor

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.



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.



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.



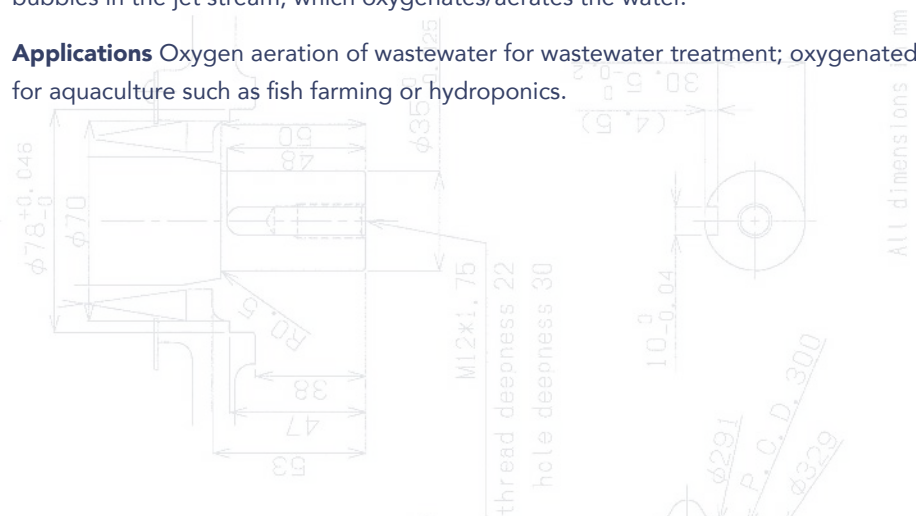
High quality corrosion resistance with pressures up to 300 PSI. Bubble tight shut off. True union design allows easy installation into existing piping. Full rated back pressure. PVC SCH 80.



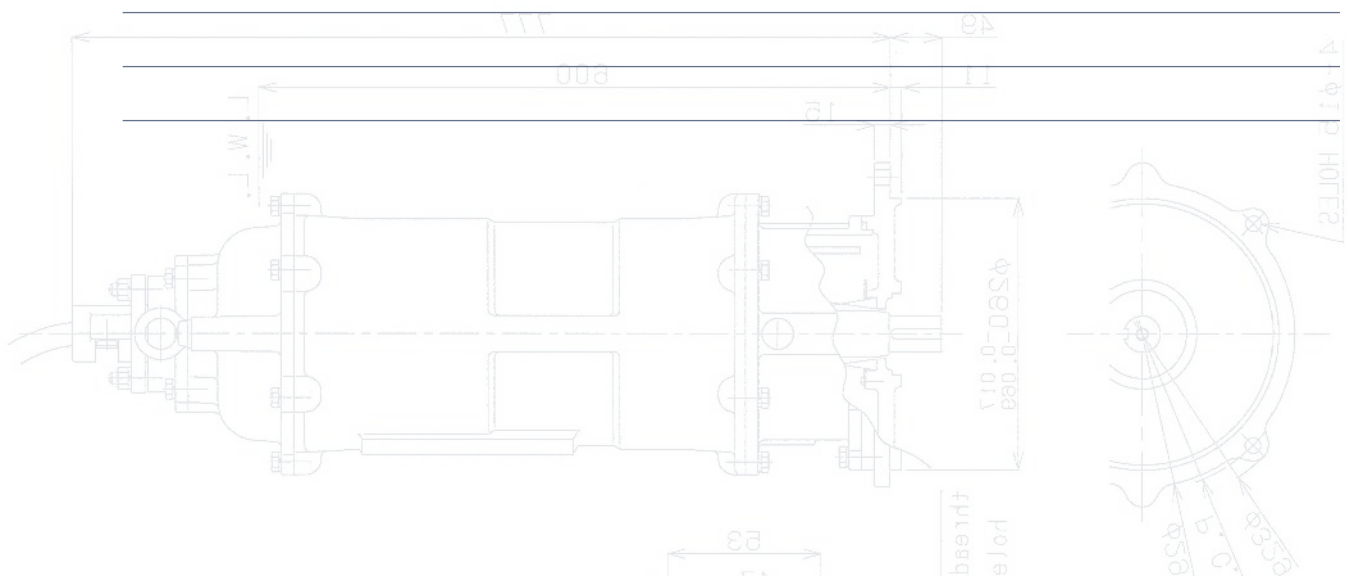
Max Air Volume: 27,738 GPH

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.



This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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Agent

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