HCP PUMPS America

2020

General Catalog

professionalism • innovation • service • commitment

HCP PUMPS America

2020

General Catalog

Pumps

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Other

Control Panels • Basins **18**

GRS • Accessories **19**

Product Nomenclature

F		2	1	U	F		2	1
Type		Discharge	Hp	Style	Float		230 V	1Ø

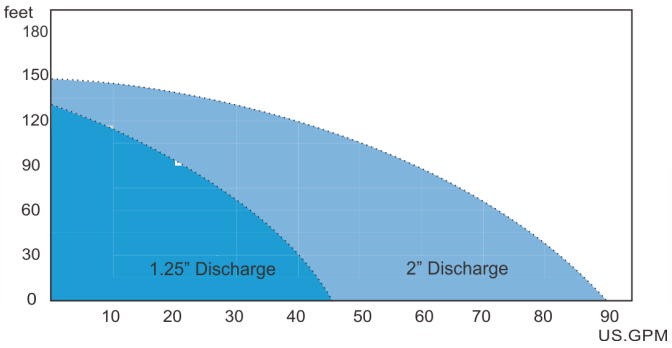
80	AF	U	2	3.7	L	A		4	3
Size	Series	Style	Pole	kW	Large Solid	—		460 V	3Ø

GF Series

Submersible Grinder Pumps

01

GF Series Curves



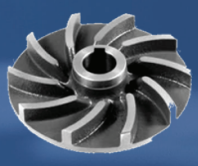
GF Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- Moisture and Thermal Overload protection on 5Hp and above (includes 50GF22.2)
- 50 ft cable standard on 5hHp and above
- Single and three-phase motors available
- Cast iron motor housing
- B class motor standard 2Hp and below
- H class motor standard 3Hp and above
- Optional attached float on select models
- Internal capacitors on select models
- External capacitors on select models
- Stainless steel cutting assembly 50-60 Rockwell Hardened
- Optional horizontal discharge on 32GF Series models

	Discharge	1.25" • 2"
MAX	Liquid Temp. Applications Submersion	32–180˚ F Wastewater 100 ft
TYPE	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Lip Seal Impeller	60 Hz 2P • Class B (≤3Hp) • Class H (≥5Hp) IP68 Auto-Cut • MTS & MS Ball Type, Double Lower Ball Bearing Double Mechanical Seals Silicon 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 Disharge • Seal leak and Overtemp

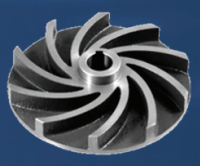
	Model	HP	Dis.	Ø	Head (MAX)	Flow (MAX)
	32GF21.0	1	1.25"	1/3	67	32
	32GF21.5	2	1.25"	1/3	85	44
	32GF21.5H	2	1.25"	1/3	102	34
	32GF22.2	3	1.25"	1/3	109	45
	32GF22.2H	3	1.25"	1/3	131	35
	32GFR22.2	3	1.25"	1	109	45
	32GFR22.2H	3	1.25"	1	131	35
	*50GF22.2	3	2"	1/3	81	85
	*50GF23.7	5	2"	1/3	120	86
	*50GF24.5	6	2"	1/3	145	89
COMING SOON	50GF25.5	7.5	2"	3	—	—
	50GF27.5	10	2"	3	—	—
	50GF211	15	2"	3	—	—

* Requires external capacitors



vortex impeller

radial cutter • cutter ring



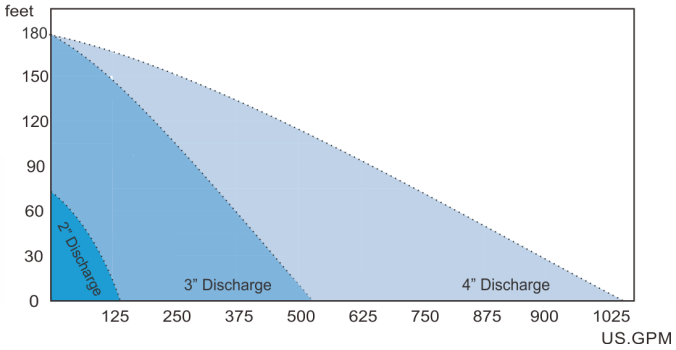
vortex impeller

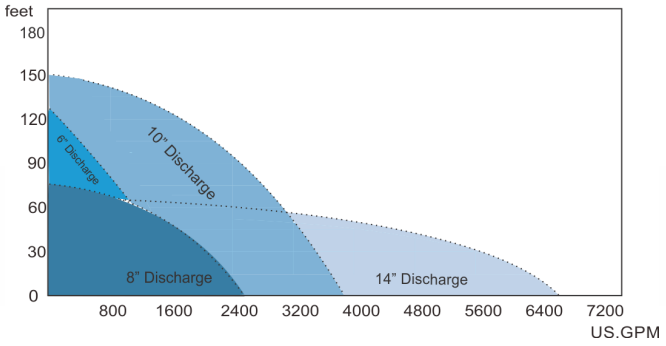
AF Series

Submersible Sewage/Wastewater Pumps

02

AF Series Curves





AF Series Features

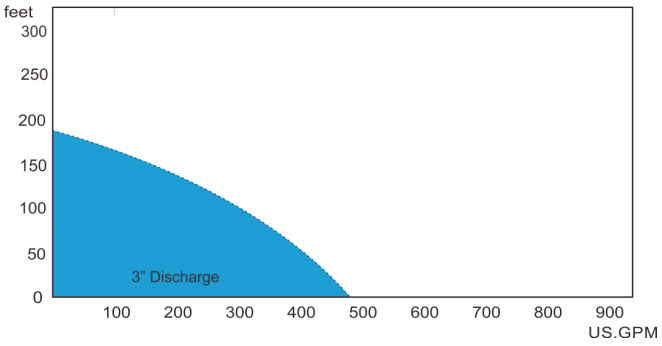
- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- Moisture and Thermal Overload protection on 5Hp and above (includes 80/100AFE42.2)
- 50 ft Cables on 5Hp and above
- Single and three-phase motors available
- 2, 4, and 6 Pole motors available
- Cast Iron motor housing
- B class motors available 2Hp and below
- H class motors available 3Hp and above
- Optional attached float on select models
- Internal capacitors on select models
- External capacitors on select models
- Anti air-locking device on select models

	Discharge	2" • 3" • 4" • 6" • 8" • 10" • 14"
MAX	Liquid Temp.	32–180˚ F
	Applications	Municipal & Industrial Wastewater
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P–6P • Air-Filled Motor
	Insulation	Class B (≤3Hp) • Class H (≥5Hp)
	Protection	IP68
	Protector	Minature Thermal Sensor (MTS) • Overtemp Moisture Sensor (MS) • Auto-Cut ≤3Hp
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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 & Lip Seals	Upper: Carbon/Ceramic Lower: Silicon/Silicon
	Casing	ASTM-48, Class 30
	Impeller	ASTM-48, Class 30
	Wear Ring	Brass
	Cable	SOW 30 ft & 50 ft • 10 Hp: VCT/SJOW/SOW • 10–30Hp: H07RN-F
	Optional	Seal Leak & Thermal Protection (Standard for ≥5Hp)

Model	HP	Dis.	Ø	Head (MAX)	Flow (MAX)	Solids (MAX)	
50AFU	0.5–3	2"	1/3	66	138	1.5–2"	
80AFP	2–15	3"	1/3	178	518	1.25–2"	
80AFU	2–15	3"	1/3	137	460	2–3"	
80AFE	3-5	3"	1/3	58	400	3"	
100AFE	1.5–40	4"	3	178	1190	3"	
100AFU	7.5–10	4"	3	64	656	4"	
AF-6"	10–20	6"	3	122	1570	3"	
150AFE	7.5–40	6"	3	—	—	—	COMING SOON
AF-8"	15–20	8"	3	75	2450	3"	
AF-10"	30–75	10"	3	150	3700	3"	
*AF-14"	30–60	14"	3	66	7850	4.75"	

*Optional 16" discharge

AFC Series Curves



AFC Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- Moisture and Thermal Overload Protection on 5Hp and above (includes 80/100AFC42.2)
- 50 ft Cables on 5Hp and above
- Single and three-phase motors available
- 2 and 4 Pole motors available
- Cast Iron Motor Housing
- Air-filled motors
- B class 2Hp and below
- H class 3Hp and above
- Optional attached float on select models
- Internal capacitors on select models
- External capacitors on select models
- Anti air-locking device on select models
- Tungsten Carbide cutting edge on impeller

	Discharge	3"
MAX	Liquid Temp.	32–180˚ F
	Applications	Sewage
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2 & 4P • Air-Filled Motor
	Insulation	Class B (≥5Hp: Class H)
	Protection	IP68
	Protector	Auto-cut (≥5Hp: MTS & MS)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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

MAX

Model	HP	Dis.	Ø	Head	Flow	Solids
80AFC21.5	2	3"	1/3	52	244	2.5"
80AFC22.2	3	3"	1/3	65	280	2.5"
*80AFC23.7A	5	3"	1/3	94	342	2.5"
80AFC25.5	7.5	3"	3	115	382	2.5"
80AFC27.5	10	3"	3	140	440	2.5"
80AFC211	15	3"	3	180	490	2.5"
80AFC41.5	2	3"	3	—	—	2.5"
80AFC42.2	3	3"	3	—	—	2.5"
80AFC43.7	5	3"	3	—	—	2.5"
100AFC45.5	7.5	4"	3	—	—	2.5"
100AFC47.5	10	4"	3	—	—	2.5"

COMING SOON

* Requires external capacitors

Tungsten Carbide Impeller

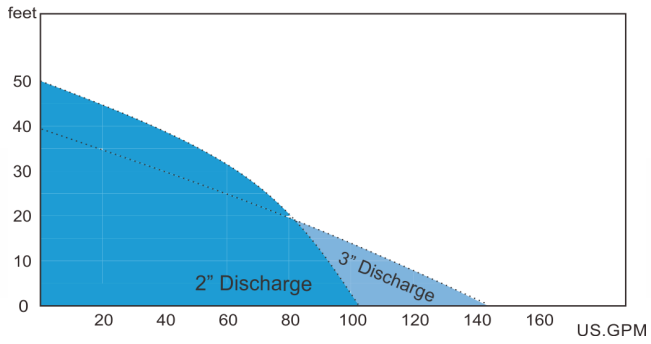
Cutter Casing Cover

F Series

Submersible Effluent Pumps

04

F Series Curves

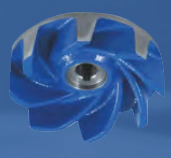


F Series Features

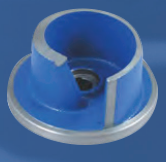
- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut
- Single and three-phase motors available
- Stainless steel motor housing
- Air filled-motors (F-05A Oil-Filled)
- Optional attached float
- Internal Capacitors standard

	Discharge	2" • 3"
MAX	Liquid Temp.	32–104˚ F
	Applications	Effluent/drainage
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor (F-05A: Oil motor)
	Insulation	Class B
	Protection	IP68
	Protector	Auto-Cut (0.5Hp 1Ø: Thermal)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals (F-05A: Single Seal)
	Lip Seal	Silicon
	Impeller	Vortex, 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

				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	33	95	2"
F-21U	1	2"	1/3	45	93	1.5"
F-21UL	1	2"	1/3	33	95	2"
F-21P	1	2"	1/3	50	103	1"
F-31U	1	3"	1/3	38	143	1.25"



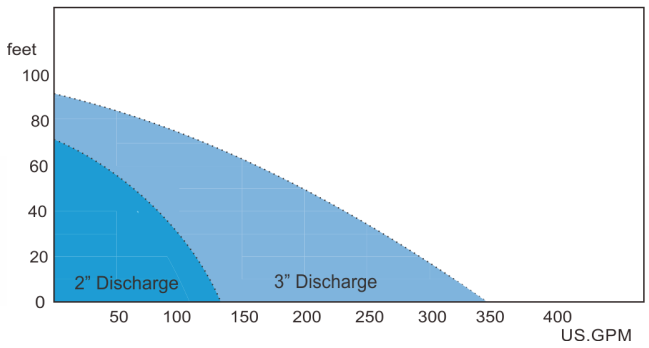
U-Type Impeller



P-Type Impeller

Guide Rail System for F Series

FN Series Curves



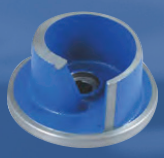
FN Series Features

- Triple seal design
- Cable entry with Anti-wicking epoxy and compression grommet
- Thermal Auto-Cut
- Single and three-phase motors available
- Stainless steel motor housing
- Air-filled motors
- B Class motor option available on 2Hp and below
- H Class Motor motor option available on 3Hp and above
- Optional attached float
- Internal capacitors
- Anti air-locking device on select models

	Discharge	**2" • 3"**
MAX	Liquid Temp.	32–180˚ F
	Applications	Wastewater/effluent
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor
	Insulation	Class B (5Hp: Class H)
	Protection	IP68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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

				MAX			
Model	**HP**	**Dis.**	**Ø**	**Head**	**Flow**	**Solids**	
FN-22U	2	2"	1/3	67	112	1.5"	
FN-22UL	2	2"	1/3	53	122	2"	
FN-23U	3	2"	1/3	—	—	1.5"	COMING SOON
FN-23UL	3	2"	1/3	63	138	2"	
FN-32U	2	3"	1/3	51	174	2"	
FN-32P	2	3"	1/3	51	250	1.5"	
FN-33U	3	3"	1/3	64	208	2"	
FN-33P	3	3"	1/3	68	292	1.5"	
FN-35U	5	3"	3	85	262	2"	
FN-35P	5	3"	3	90	345	1.5"	
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	285	3"	

U-Type Impeller


P-Type Impeller

Suction Lift Series

Self-Priming Pumps

06

Series Features

- Capable of priming without flap valve
- Non-clog design capable of handling large solids
- Lubrication of mechanical seal cavity makes performance more reliable
- Multiple rotary speeds, reliable operation, easy maintenance, and long product life
- Equipped with pressure relief valve
- Removable cover plate with easy grip handle
- Removable rotating assembly
- Replacable wear plate
- Multiple skid confirgurations available

	Discharge	**2" • 3" • 4" • 6" • 8" • 10"**
Conditions	Density of Medium PH Solid Max Diameter Max Suction Lift Volume Ratio of Solids	1.0–1.38*103Kg/m³ Within 5–9 >3" 25 ft 2%
TYPE	**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

				MAX	
Model	**HP**	**Dis.**	**Ø**	**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

rotating assembly

semi-open impeller

flap valve assembly

DBP Series

Diesel Bypass Packages

07

Series Highlights

- **Mobility** Our trailer-mounted units 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.

Specifications

- **Discharge** 4, 6, 8, 10, 12”
- **Horsepower** 30–225
- **Max Head** 350 ft
- **Max Flow** 4500 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

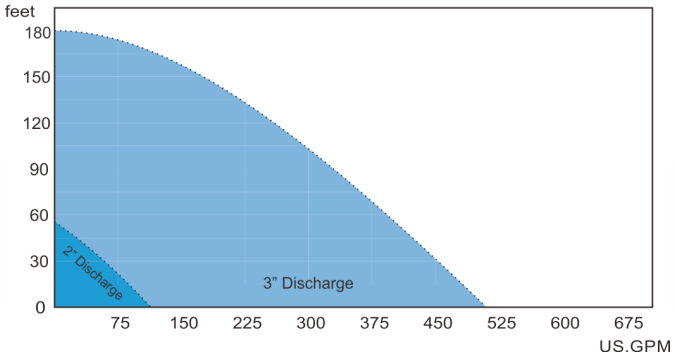
Various configurations of trailer-mounted, skid, and permament-mounted DBP units.

SA/SF Series

Submersible Stainless Steel Pumps

08

SA/SF Series Curves



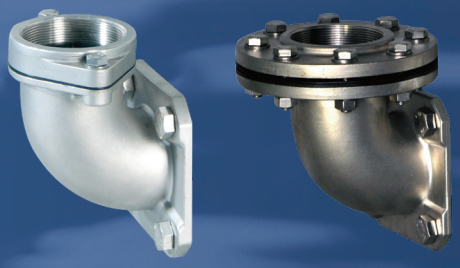
SA/SF Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3hp and below
- Moisture and thermal overload protection on 5Hp and above
- 50 ft cables standard on 5Hp and above
- Single and three-phase motors available
- Complete 316 or 304 stainless steel construction
- Air-filled motors
- B Class motor option available on 2Hp and below
- H Class Motor motor option available on 3Hp and above
- Optional attached float on select models
- Internal capacitors on select models
- Anti air-locking device on select models
- Standard with Viton O-Rings

	Discharge	2" • 3"
MAX	Liquid Temp.	32–180° F
	Applications	Corrosive fluids
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor
	Insulation	Class B (≤3Hp) • Class H (≥5Hp)
	Protection	IP68
	Protector	Auto-cut • MTS & MS (≥5Hp)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	Impeller	Semi-Open, Vortex
MATERIAL	Upper Cover	SCS13 (0.5 Hp) • SCS140
	Motor Frame	SUS316
	Main Shaft	SUS316
	Mechanical Seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
	O-Ring	Viton
	Casing	SCS13 (0.5 Hp) • SCS140
	Impeller	SCS14
	Casing Cover	SCS13 (0.5 Hp) • SCS140
	Cable	VCT or H07RN-F or SJOW/SOW

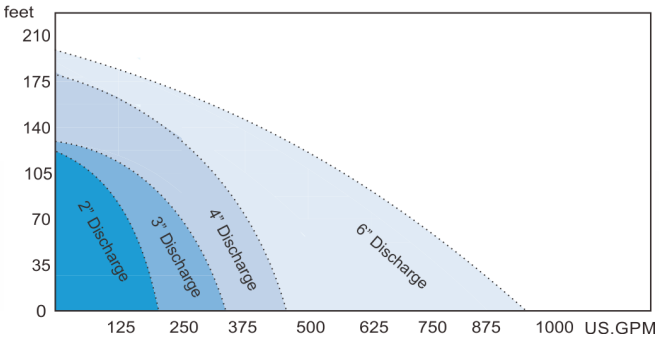
MAX

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



stainless steel elbows

HD/BD Series Curves



HD Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- 50 ft Cables on 5Hp and above
- Single and three-phase motors available
- Stainless steel outer jacket
- Cast Iron Motor Housing
- Air-filled motors
- B class motor option available on 2Hp and below
- H class motor option available on 3Hp and above
- Internal Capacitors on select models
- Multiple discharge options
- High Chrome alloy steel impeller and wear ring with 55-60 Rockwell Hardened

	Discharge	2" • 3" • 4" • 6"
MAX	Liquid Temp.	32–180˚ F
	Applications	Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor
	Insulation	Class B (≤3Hp) • Class H (≥5Hp)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Impeller	Semi-Open • Enclosed Channel
	Lip Seal	Silicon
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

				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	
100BD222	30	4"	3	—	—	COMING SOON
150HD215	20	6"	3	190	608	
150BD222	30	6"	3	170	950	

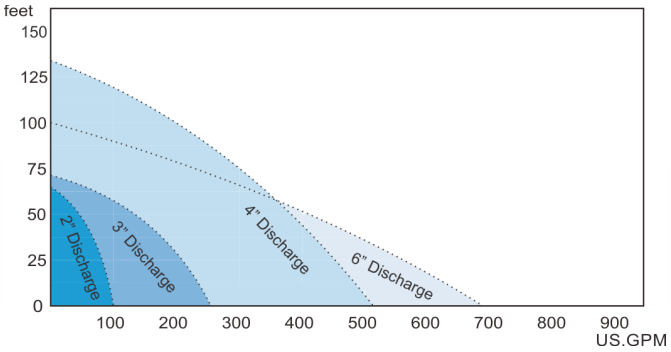
LOH LOT LKF2 LKF3

IC Series

Submersible Dewatering Pumps

10

IC Series Curves



IC Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- 50 ft cables on 5Hp and above
- Single and three-phase motors available
- Stainless steel outer jacket
- Cast iron motor housing
- Air-filled motors
- B class motor option available on 2Hp and below
- H class motor option available on 3Hp and above
- Internal capacitors on select models
- Multiple discharge options

	Discharge	2" • 3" • 4" • 6"
MAX	Liquid Temp. Applications Submersion	32–180˚ F Irrigation & Dewatering 100 ft
TYPE	Frequency Motor Insulation Protection Protector Bearing Mechanical Seal Lip Seal Impeller	60 Hz 2P • Dry Motor Class B • Class H (≥5Hp) IP68 Auto-cut Ball Type Double Mechanical Seals Silicon 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

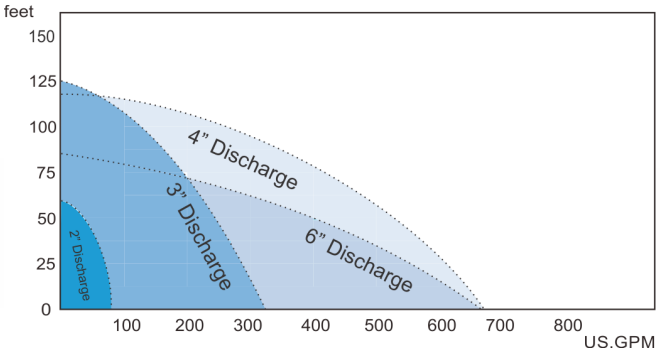
MAX

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

* 2–4" discharge connection included on pump

LOH LOT LKF2 LKF3

HDG Series Curves



HDG Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- 50 ft cables on 5Hp and above
- Single and three-phase motors available
- Stainless steel outer jacket
- Cast iron motor housing
- Air-Filled motors
- B class motor option available on 2Hp and below
- H class motor option available on 3Hp and above
- Internal capacitors on select models
- Multiple discharge options
- High chrome alloy steel impeller & wear ring w/ 55-60 Rockwell Hardened
- Hardened agitator

	Discharge	3" • 4" • 6"
MAX	Liquid Temp.	32–180° F
	Applications	Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor
	Insulation	Class B • Class H (≥5Hp)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Impeller	Semi-Open • Enclosed Channel
	Lip Seal	Silicon
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

MAX

Model	HP	Dis.	Ø	Head	Flow
50HDG2.4	0.5	2"	1	40	62
50HDG2.8	1	2"	1	60	85
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

LOH LOT LKF2 LKF3

L Series

Submersible Large Volume Pumps

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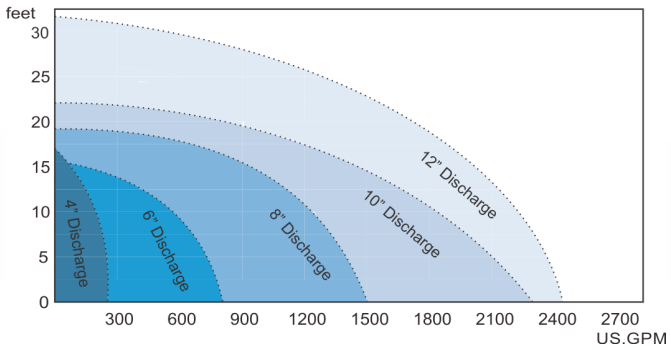
L Series Curves



L Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut 3Hp and below
- 50 ft Cables on 5Hp and above
- Single and three-phase motors available
- Stainless steel outer jacket
- Cast iron motor housing
- Air-filled motors
- B class motor option available on 2Hp and below
- H class motor option available on 3Hp and above
- Internal capacitors on select models
- Axial flow and mixed flow impeller designs

	Discharge	**4" • 6"• 8" • 10" • 12"**
MAX	Liquid Temp.	32–180˚ F
	Applications	Irrigation/Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor (0.5–1Hp) 4P • Air-Filled Motor (2–20Hp)
	Insulation	Class B (≤3Hp) • Class H (≥7.5Hp)
	Protection	IP68
	Protector	Auto-cut (≤3Hp) • None (≥7.5Hp)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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

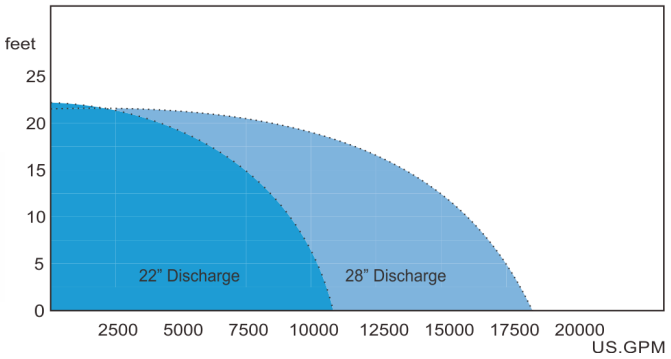
MAX

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	2475

Mix Flow Impeller

Axial Flow Impeller

LA Series Curves



LA Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Standard 50 Ft power cables
- Cast Iron Motor Housing
- Air-filled motors
- H class motor option available
- Stand type or well type pump versions available
- Axial Flow Impeller

	Discharge	22" • 28"
MAX	Liquid Temp.	32–180˚ F
	Applications	Irrigation/Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	10P • Air-Filled Motor (50–60Hp) 12P • Air-Filled Motor (75–100Hp)
	Insulation	Class H
	Protection	IP68
	Protector	MTS & MS • Sacrificial Anode
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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

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

Stand Type Well Type

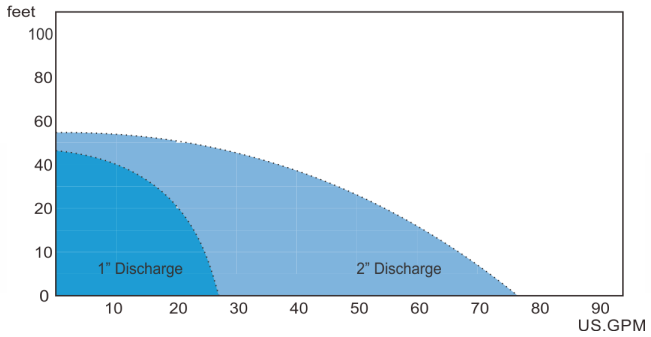
Sacrificial Anode

Axial Flow Impeller

GDR • GDS Series

Submersible Portable Dewatering Pumps

GDR • GDS Curves



				MAX	
Model	HP	Dis.	Ø	Head	Flow
GDR-400	0.5	1/2"	1	46	26
GDS-400	0.5	1/2"	1	40	60
GDS-750	1	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 • Air-Filled 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	Aluminum alloy Aluminum alloy SUS410 SUS304 Upper: Carbon/Ceramic Lower: Silicon/Silicon Synthetic rubber Urethane Rubber + SPCC VCT or H07RN-7 or SJOW/SOW

GDS Features

- Designed for the construction industry
- Lightweight, portable, and durable
- Motor frame & mechanical seal bracket are made of aluminum alloy
- 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

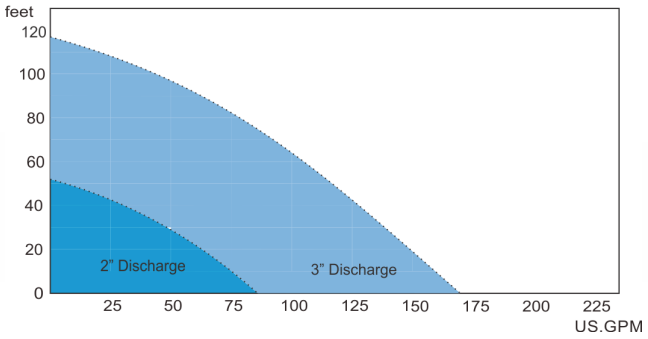
GDR Features

- Air-filled 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

GDS Model

GDR Model

A Series Curves



A Series Features

- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut standard
- Single and three-phase motors available
- Stainless steel motor housing standard
- Anti air-locking device on select models
- Air-filled motors
- Internal capacitors standard

	Discharge	**2" • 3"**
MAX	Liquid Temp.	32–104˚ F
	Applications	Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor (A-05A: Oil Motor)
	Insulation	Class B
	Protection	IP68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals (A-05A: Single Seal)
	Lip Seal	Silicon
	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
	Cable	VCT or H07RN-7 or SJOW/SOW

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	0.25"
A-21	1	2"	1/3	52	88	0.25"
A-31	1	3"	1/3	38	143	0.25"
A-33H	3	3"	1	119	165	1"

A Series Impeller

A Series Impeller

AN Series

Submersible Dewatering/Sump Pumps

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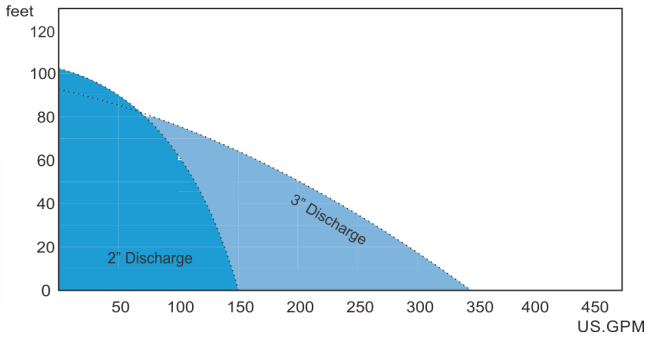
AN Series Curves



AN Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut standard
- Single and three-phase motors available
- Stainless steel motor housing standard
- Anti air-locking device on select models
- Air-filled motors
- Internal capacitors standard

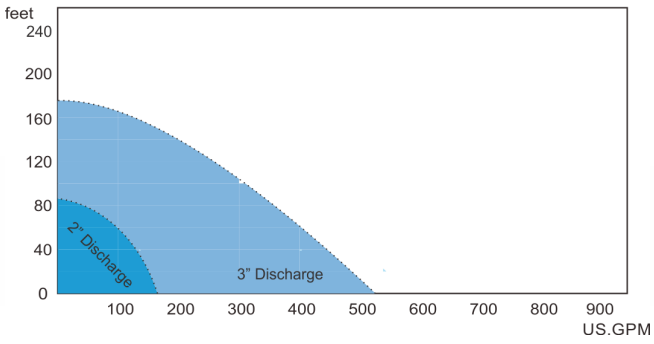
	Discharge	2" • 3"
MAX	Liquid Temp.	32–180˚ F
	Applications	Dewatering/water features
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P • Air-Filled Motor
	Insulation	Class B (≤2Hp) • Class H (≥5Hp)
	Protection	IP68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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

			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	0.5”

Vortex Impeller

Semi-Open Impeller

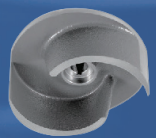
AL Series Curves



AL Series Features

- Triple seal design
- Cable entry with anti-wicking epoxy and compression grommet
- Thermal Auto-Cut standard
- Single and three-phase motors available
- Cast iron motor housing
- Anti air-locking device on select models
- Air-filled motors standard
- B Class motor option available on 2Hp and below
- H Class motor option available on 3Hp and above
- Moisture and thermal overload standard for 5HP and above
- Internal capacitors standard

	Discharge	**2" • 3"**
MAX	Liquid Temp.	32–180˚ F
	Applications	Dewatering
	Submersion	100 ft
TYPE	Frequency	60 Hz
	Motor	2P (3600 RPM) • Air-Filled Motor
	Insulation	Class B (≤2Hp) • Class H (≥5Hp)
	Protection	IP68
	Protector	Auto-Cut (5–15Hp: MTS & MS)
	Bearing	Ball Type
	Mechanical Seal	Double Mechanical Seals
	Lip Seal	Silicon
	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



Semi-Open Impeller

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	295	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"

Control Panels & Basins

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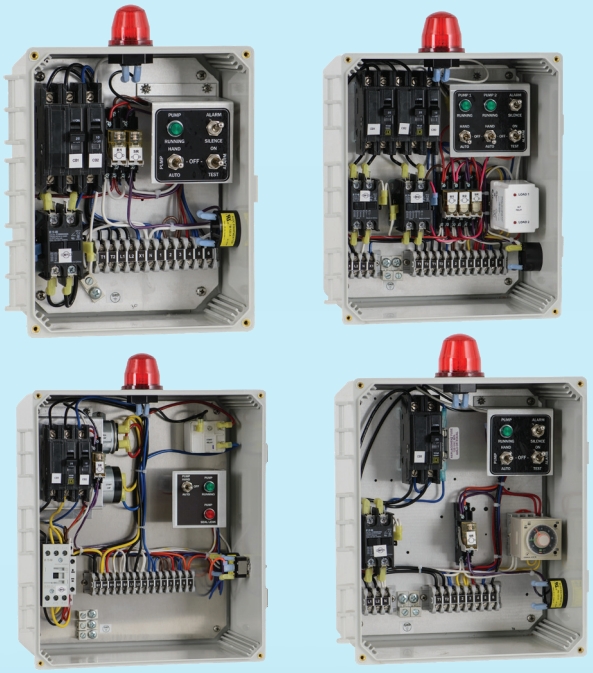
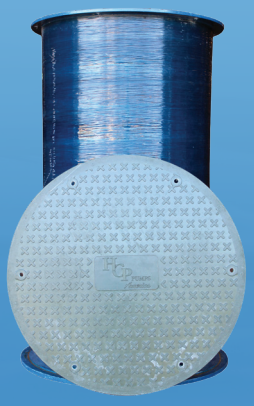
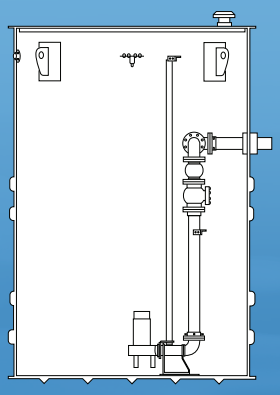






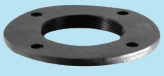
a sectional of our basins

Control Panel 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

Basin Features

- Manufactured to ASTM D3753 specifications
- Designed to withstand hydrostatic loading of 62.4 lbs/ft³
- Produced to withstand saturated soil loadings of 120 lbs/ft³
- Available in various widths from 18–120 inches and lengths from 24–300 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

PROTECTION & ACCESSORIES	DESCRIPTIONS
	Submersible Pump Guide Rail Systems Automatic coupling system designed for submersible pump applications. The HCP GRS provides an easier and safer way to perform routine maintenance and repairs on equipment without the need for personnel to enter the wet well area. The HCP GRS adapter is mounted to the pump dishcharge, then lowered down by stainless steel chains and fasteners to align to the base elbow. Available in 2–16."
	Guide Rail Adapters **Adapter (ADT)** Flange conforms to JIS 10K/ANSI 125/DIN 2633. Cast iron contruction and available in 2–6" flange construction. **Flygt Guide Rail Adapters** Cast iron; available in 3, 4, 6, and 8" flange construction.
	Auto-Cut Protector 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 overheating or a power surge. The switch automatically restarts the motor once the temperature drops to about 60–70°C.
	Overheat Protector The overheat protector is an automatic cut-off switch built into the single-phase motor to monitor the temperature of the inner motor. The switch automatically cuts off power if the temperature exceeds the maximum allowable operating temperature (insulator class max. temperature). The switch automatically restarts the motor once the temperature drops to about 60–70°C.
	Moisture Sensor (MS) 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 control panel. The control panel will then set off a warning signal and/or power off to protect the pump motor. If this occurs, schedule pump maintenance to replace the mechanical seal.
 Flange (F) Double Flange Set (L2F) Flange (EF) w/ bolt kit	**Flange & Flange Sets** Cast iron construction. Flange fittings for 1.25–8" discharge. Threads available: PT, PF, and NPT.

Notes

Notes

HCP PUMPS America

Agent

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