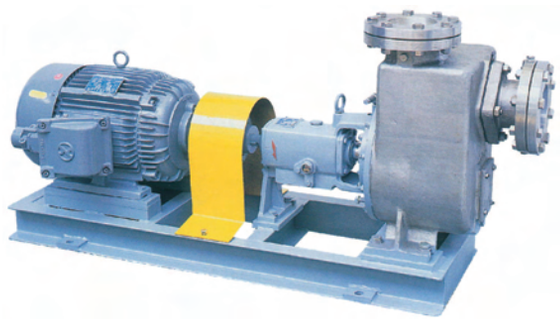
Model SP

Self-Priming Pumps

» Applications 용 도

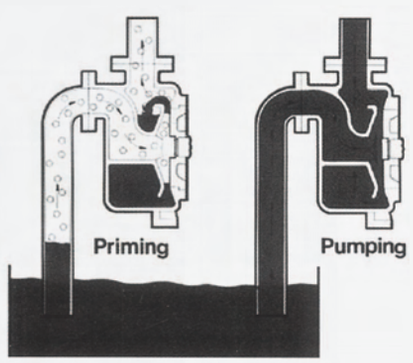
- Process (프로세스용)
- Sump drainage (배수)
- Chemical industry (화학용)
- Other Various industries(기타공업)



» Feature 특징

- Self priming (자흡식)
- Completely standardization for wide application (넓은 범위의 완전 표준화)
- Foot support and back pull-out design (발지지 및 뒤로 뽑는 설계)
- Good efficiency (최대의 효율)
- Heavy and sturdy construction (신뢰성 높고 견고한 구조)

Reliable Self-Priming Operation



Priming and Air Separation Accomplished Within Casing

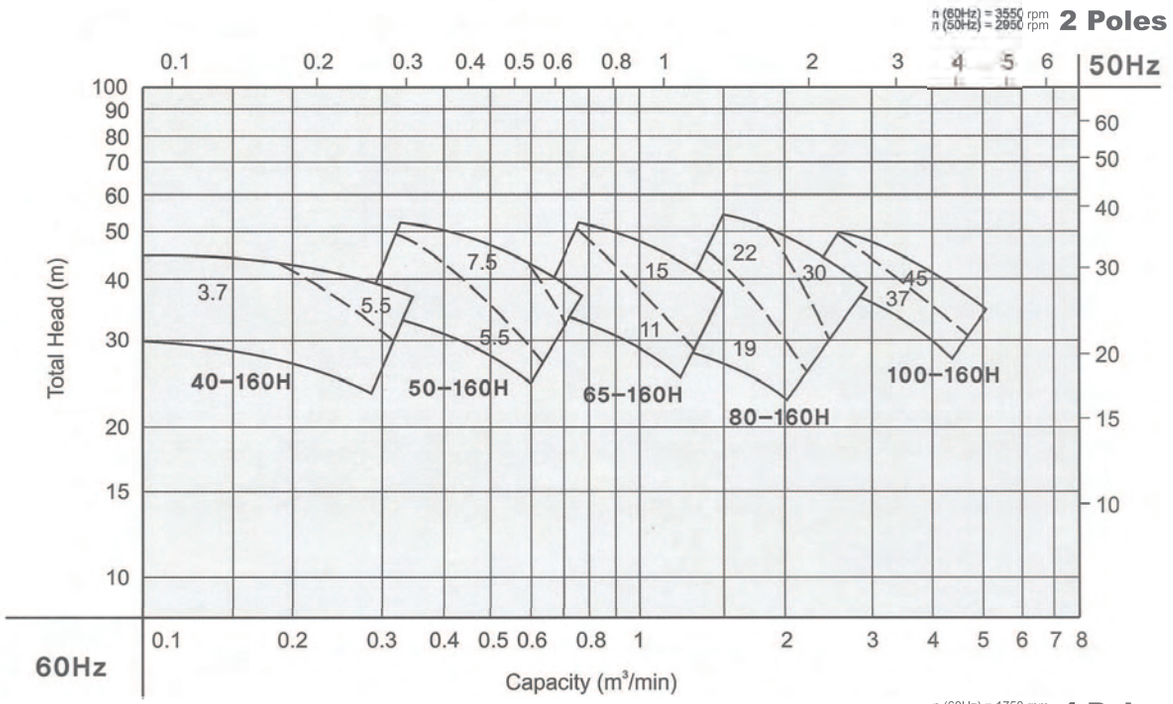
Twin volute design exhausts suction with only an initial priming charge of liquid in casing.
During priming cycle, lower volute functions as intake while upper volute discharge liquid and entrained air into separation chamber.
Air is separated and expelled through pump discharge while liquid recirculates into lower volute.
Once air is completely exhausted from suction and liquid fills impeller eye, pump is primed and functions as discharge.
Casing is designed so that an adequate volume of liquid for re-priming is always retained in pump even if liquid is allowed to drain back to source of supply from discharge and suction.

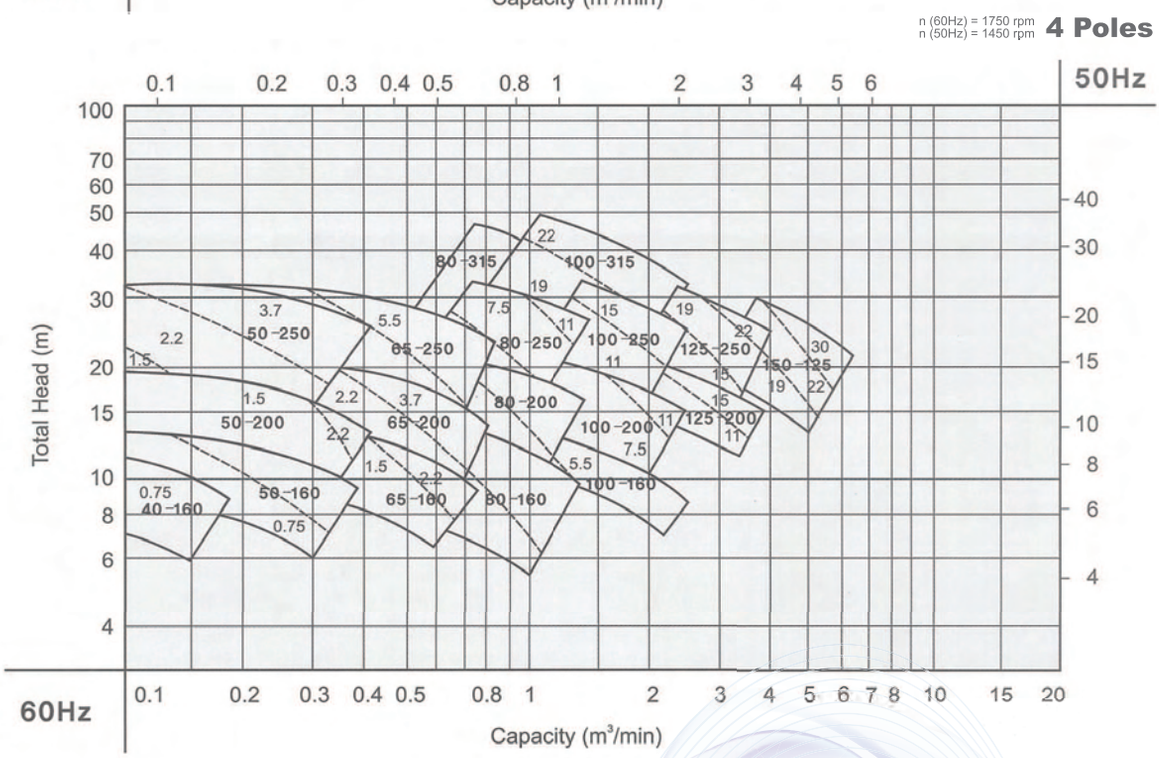
» Ratings 적용 기준

Capacity (토출량)	Up to 6 m^3/min
Head (총양정)	Up to 50m
Discharge Pressure (토출압력)	Up to 10kgf/cm^2
Allowable Suction Pressure (최대허용흡입압력)	Up to 5 kgf/cm^2
Revolution(회전수) 60 Hz (50Hz)	1750 or 3550 min^{-1}(1450 or 2950min^{-1})
Rotation (회전방향)	Clockwise viewed from coupling end
Temperature (온도)	-50℃~177℃
Nozzle — Rating	Steel : ANSI CLASS 150, Iron : ANSI CLASS 150
Nozzle — Facing	Steel : RF, Iron : FF
Nozzle — Location	End Suction : Top Discharge
Impeller Type	OPEN
Seals (축봉장치)	Conventional Packing or Mechanical Seal

CW-HYDRO,INC. is the respect for each member of organization

To realize this, **CW-HYDRO**, Inc. helps all members to develop their ability and gives a fair shake. design pumps for a affluent society. This is a technoligy for promoting human happiness and realizing the nurture of dreams through rendering services to the customer.The mind of **CW-HYDRO** is



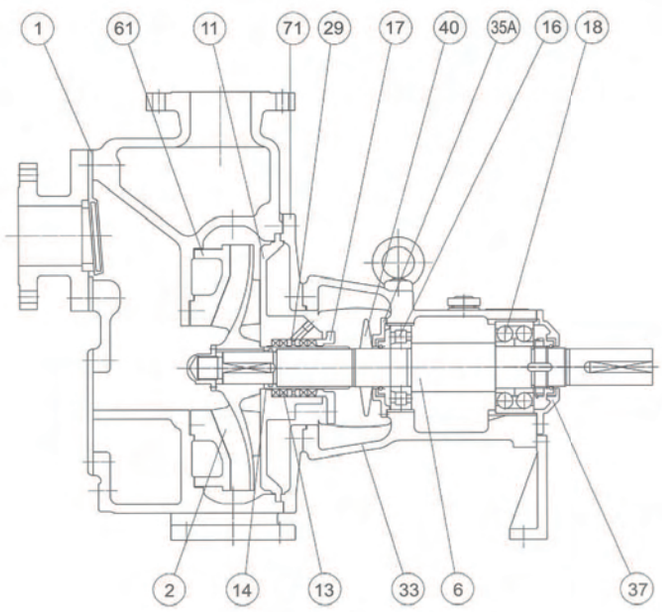


who is carrying out their mission faithfully and further, the respect for human beings.

Under this surroudings, the entire member of **CW-HYDRO** is devoting ourselvess to recearch and a prosperous life. The technology of **CW-HYDRO** is not limited to profit of the enterprise but it is

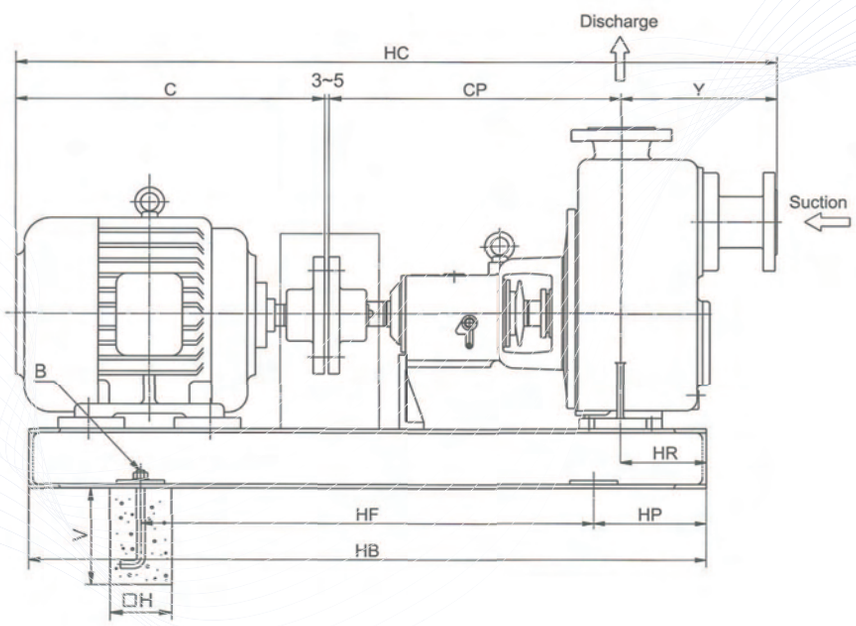
"THE FUTURE, WITH THE CUSTOMER."

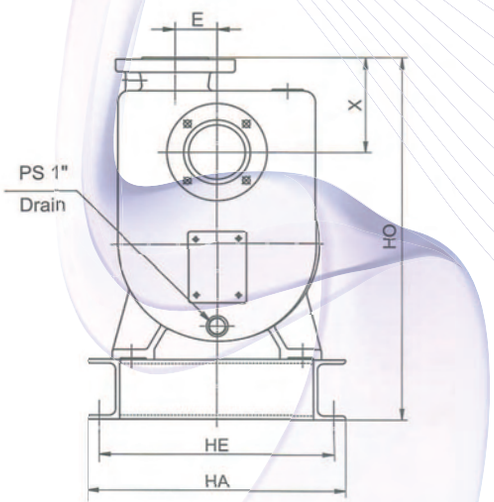
Parts List and Materials SP



No	Name of part	Material		
1	Casing	SSC13	SSC14	GC200
2	Impeller	SSC13	SSC14	SSC13
6	Shaft	STS304	STS316	SM45C
11	Stuffing Box	SSC13	SSC14	GC200
13	Packing	TEFLON	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS316	STS304
16	Inboard Bearing	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	SSC14	GC200
18	Outboard Bearing	STEEL	STEEL	STEEL
29	Lantern Ring	SSC13	SSC14	TEFLON
33	Frame	GC200	GC200	GC200
35A	Inboard Bearing Cover	GC200	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200	GC200
40	Deflector	NBR	NBR	NBR
61	Front Plate	SSC13	SSC14	SSC13
71	Adapter	NBR	GC200	GC200

Installaion Dimension





규격 / 구분	Pump and Motor											Baseplate						Anchor Bolt		
	Suc	Dis	Frame	kW	HC	C	CP	Y	E	X	HR	HF	HP	HB	HE	HA	HO	B	H	V
50-200	50	50	112S	2.2	1121	356	510	250	57	160	110	590	155	900	290	320	540	4-M16x250L	150	250
50-250	50	50	132M	7.5	1222	482	510	225	100	155	95	660	170	1000	350	380	585	4-M16x250L	150	250
65-200	65	65	112M	3.7	1147	382	510	250	57	160	110	630	160	950	290	320	540	4-M16x250L	150	250
80-315	80	80	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
100-250	100	100	112M	3.7	1172	382	515	270	80	175	110	630	160	950	400	430	640	4-M16x250L	150	250
100-315	100	100	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
125-250	125	125	180L	22	1520	685	565	265	75	195	110	830	210	1250	390	430	715	4-M16x250L	150	250

Note : Dimensions are in mm. (Approximate), The content of this catalogue is to change without notice.