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Det Norske Veritas
MANAGEMENT SYSTEM
CERTIFICATE



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KOSHA18001



고효율기장비
High Efficiency
Equipment

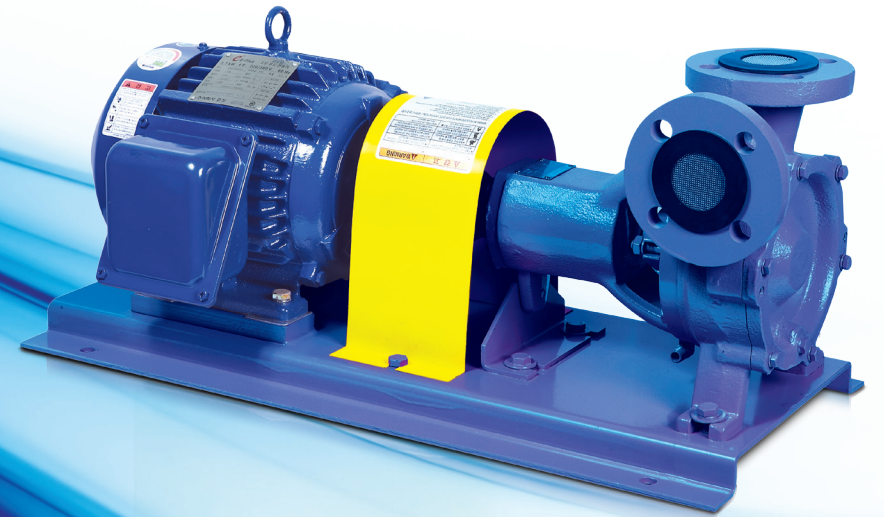
HYOSUNG GOODSPRINGS

PUMPS
& WATER

웨스코 펌프

HWE

Horizontal Westco Pump



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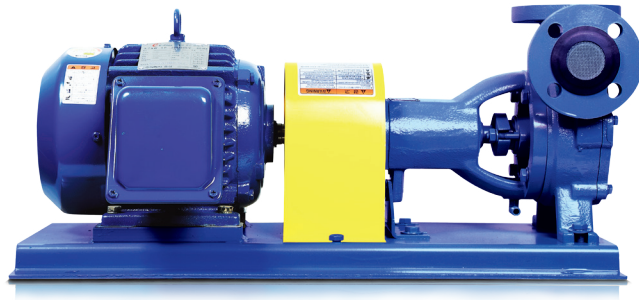
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본 카탈로그에 기재된 제품은 예고없이 단종, 사양변동이 있을 수 있으므로 구입시 반드시 확인바랍니다. (2014.03)

This brochure does not contain all information and any warranty or guarantee of any kind. Also, all information herein is subject to change without notice.

용도 Application



특징 Features

- 흡입과 토출이 일체형으로 되어있고 케이싱, 케이싱카바, 브라켓, 회전차 및 주축으로 구성됨
- 구조가 간단하고 배관 및 전동기를 분해하지 않고 펌프내부 점검가능, 유지관리가 용이함
- 다수의 깃으로 설계된 Turbine 회전차는 수온이 90℃에서 1m까지 흡상이 가능하므로 보일러 급수용으로 적합함
- 원심형에 비해 소형, 고압정 펌프로서 설치가 용이하며 타 펌프에 비해 운전범위가 넓고 내구성이 탁월함
- 마모부품(주축, 베어링, 패킹 및 카플링 등)의 표준화(기종별로 동일)로 호환성이 있으므로 펌프의 유지보수가 용이함
- 일반 볼류트형 펌프에 비해 정밀하게 제작되므로 소유량 고압정에 적합함

- Suction/discharge in the single body and consisting of the casing, casing cover, bracket, impeller and main shaft.
- Simple structure and inspection of pump inside without disassembling pipes and motor for easy maintenance.
- As the turbine impeller designed with a number of vanes can suck water up to 1m at 90℃, it is suitable for supplying water for the boiler.
- Compared to the centrifugal pump, as the compact, high Pressure pump, it is easy to install, has a wider operating range and is highly rugged.
- Thanks to standardized wearable parts (main shaft, bearing, packing and coupling) for models of the same type, it is easy to maintain the pump.
- Compared to the normal volute pump, it is manufactured precisely for low flow and high Pressure applications.

호칭 Model Designation

HWE 40 B

펌프 모델명

HWE

Model Name

토출구경

40

Discharge Diameter [mm]

전동기 동력표시

B

Motor Power Indication

표준 사양 Standard Specification

취급액	Applicable Liquid	청수 Clean Water (pH : 5.8 ~ 8.6) 0 ~ 90℃
유량 / 양정	Capacity / Head	1 ~ 13 m³/h / 10 ~ 180m
구경	Diameter	40 ~ 50 mm
회전방향	Rotation Direction	CW (구동기 측에서 펌프를 바라보았을 때) (From the Motor Side to the Pump)
구조 Structure	회전차 Impeller	터빈형 Turbine Type
	축봉타입 Shaft Seal	Packing (테프론 함침 탄화섬유) (Carbonized fibers impregnated with Teflon)
	베어링 Bearing	Ball Bearing
플랜지 Flange	Rating, Facing	KS B 1511 10K, FF
	Locating	
카플링	Coupling	몰림형 카플링 Jaw Coupling
재질 Material	케이싱 Casing	GC200
	회전차 Impeller	HBsC3 (Option : SSC13, etc)
	축 Shaft	SM45C (Option : STS304, etc)

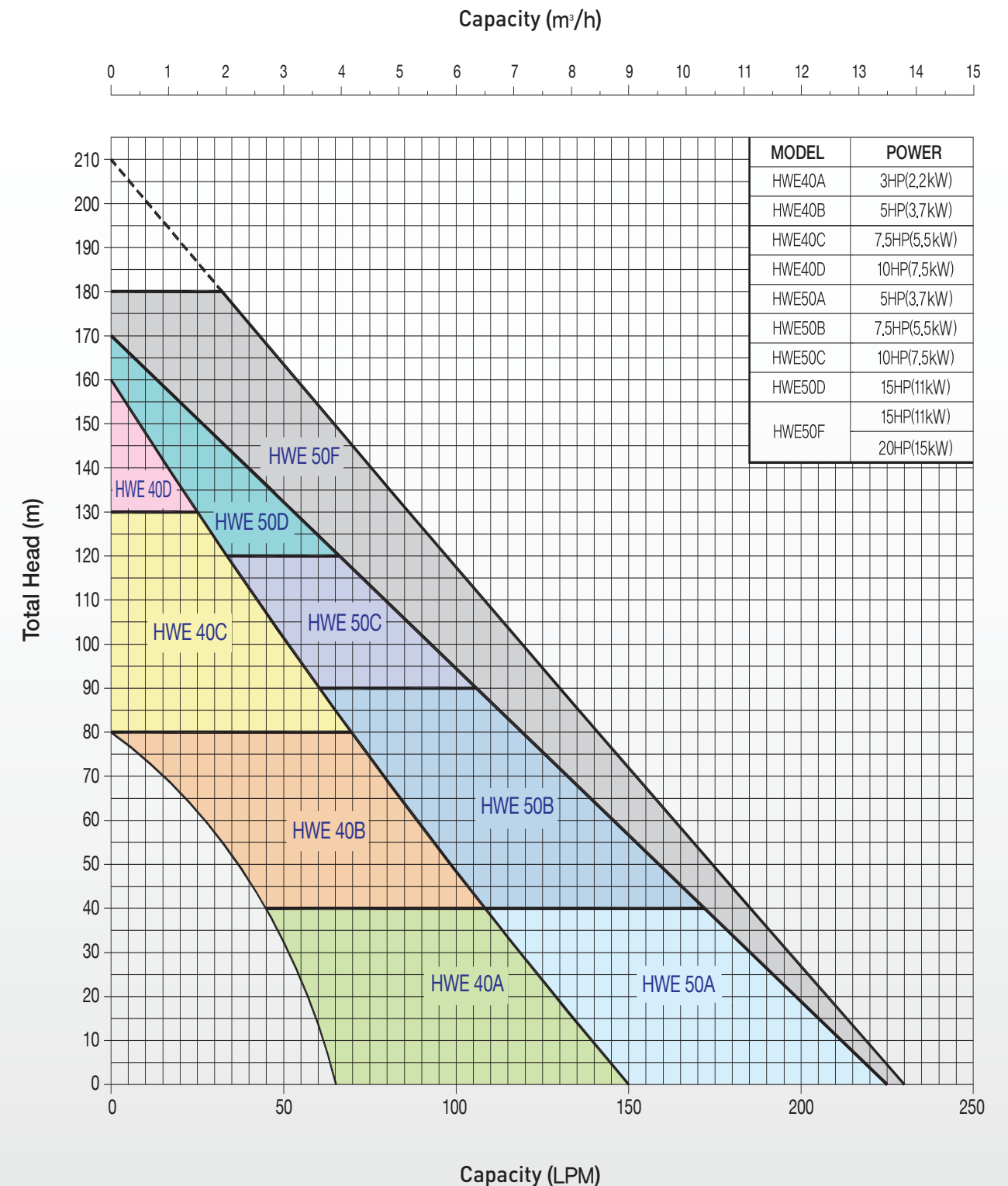
※ GC200 : Cast Iron / HBsC3 : Brass / SSC13 : Stainless Steel Casting
※ SM45C : Carbon Steel / STS304 : Stainless Steel

선택사양 Option

- 접액부 재질 (조립단면도 선택사양 참고)
- 전동기 형식 (요구사항)
- 축봉장치 (요구사항)
- 커플링 (요구사항)
- 각종 계기류, Drain/Vent 배관 구성
- 흡,토출 플랜지 방향 및 규격 (별도 문의요망)
- 도장사양 (요구사항)
- Material of the Liquid Contacting Part (Refer to the Specifications in the Sectional Drawing)
- Motor Type (Requirement)
- Shaft Seal (Requirement)
- Coupling (Requirement)
- Instrument, Drain/Vent Piping
- Suction/Discharge Flange Specification (Contact Us)
- Painting (Requirement)

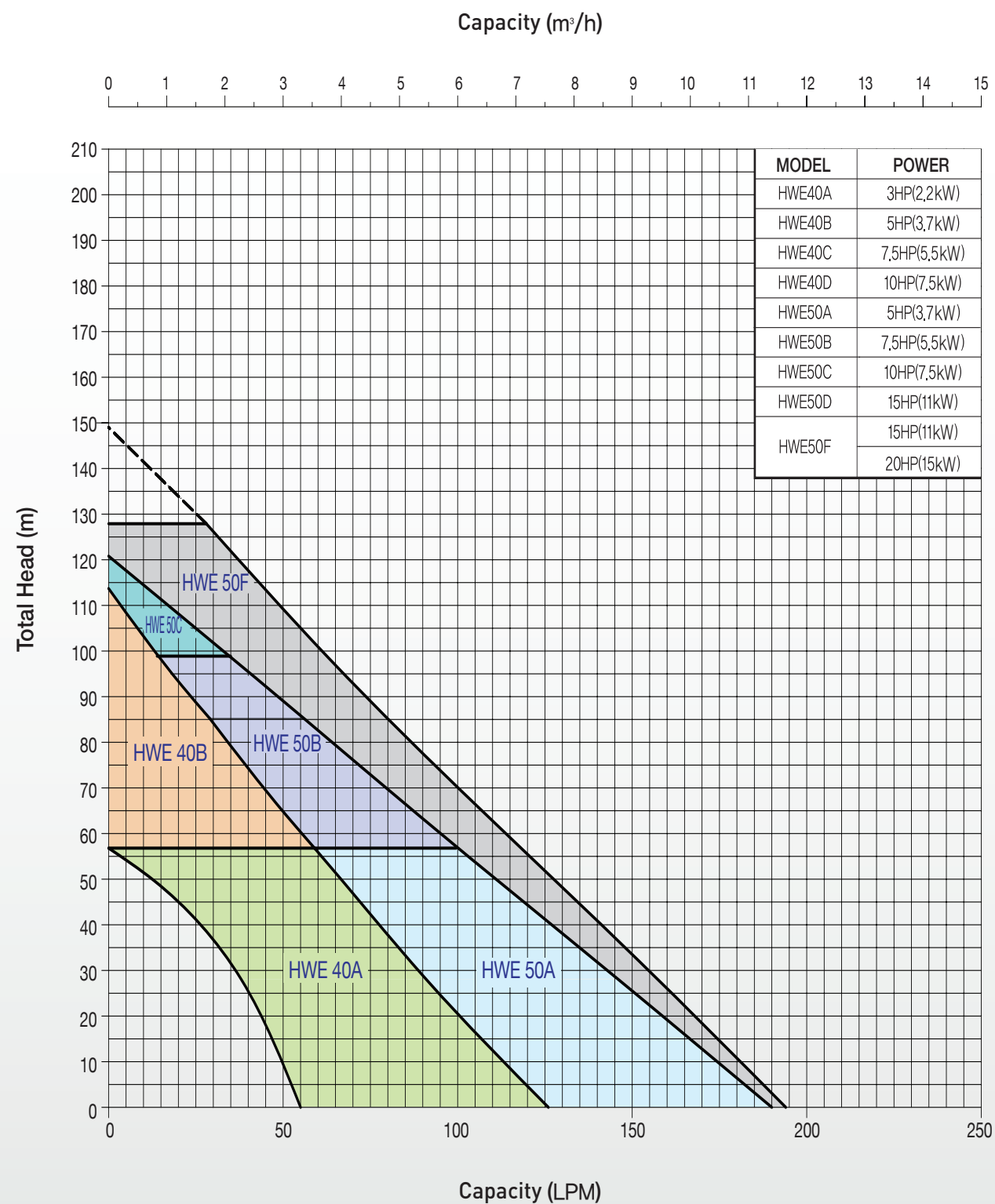
선정도 Selection Chart

60Hz (1750RPM)

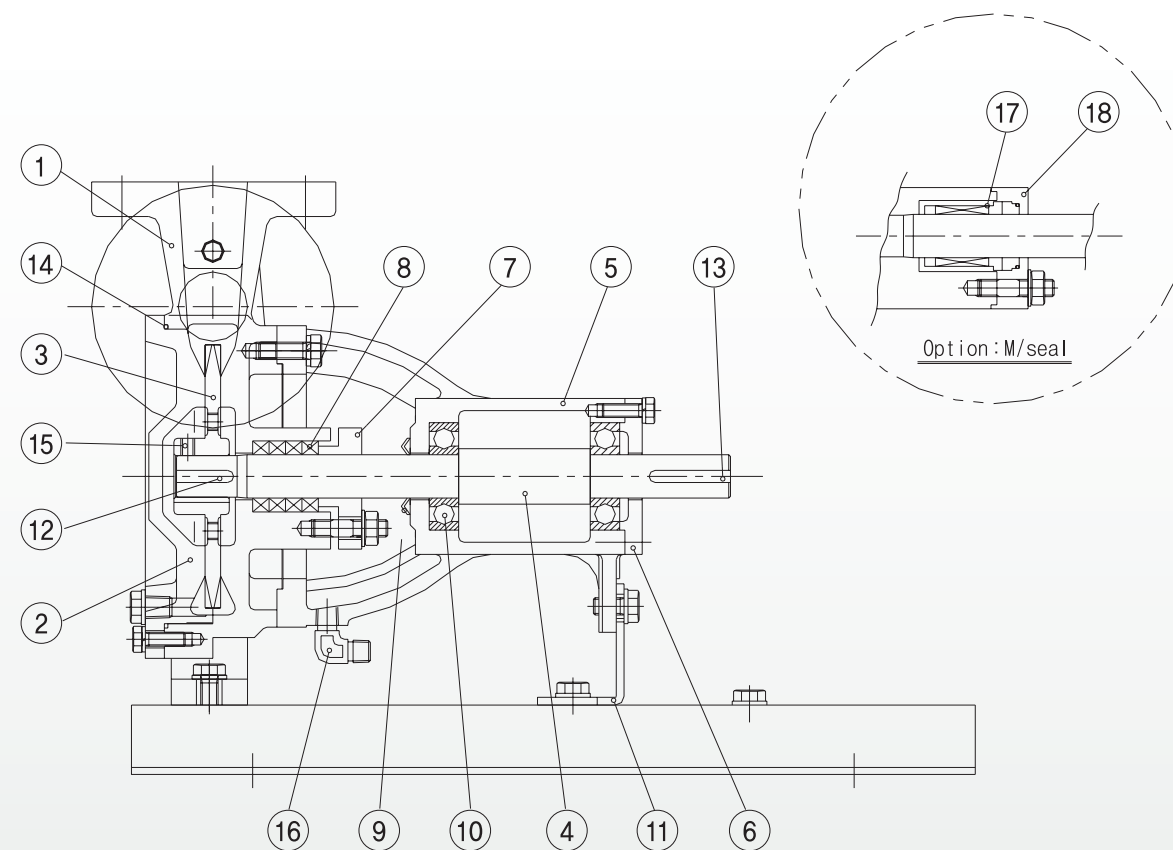


선택도 Selection Chart

50Hz (1450RPM)



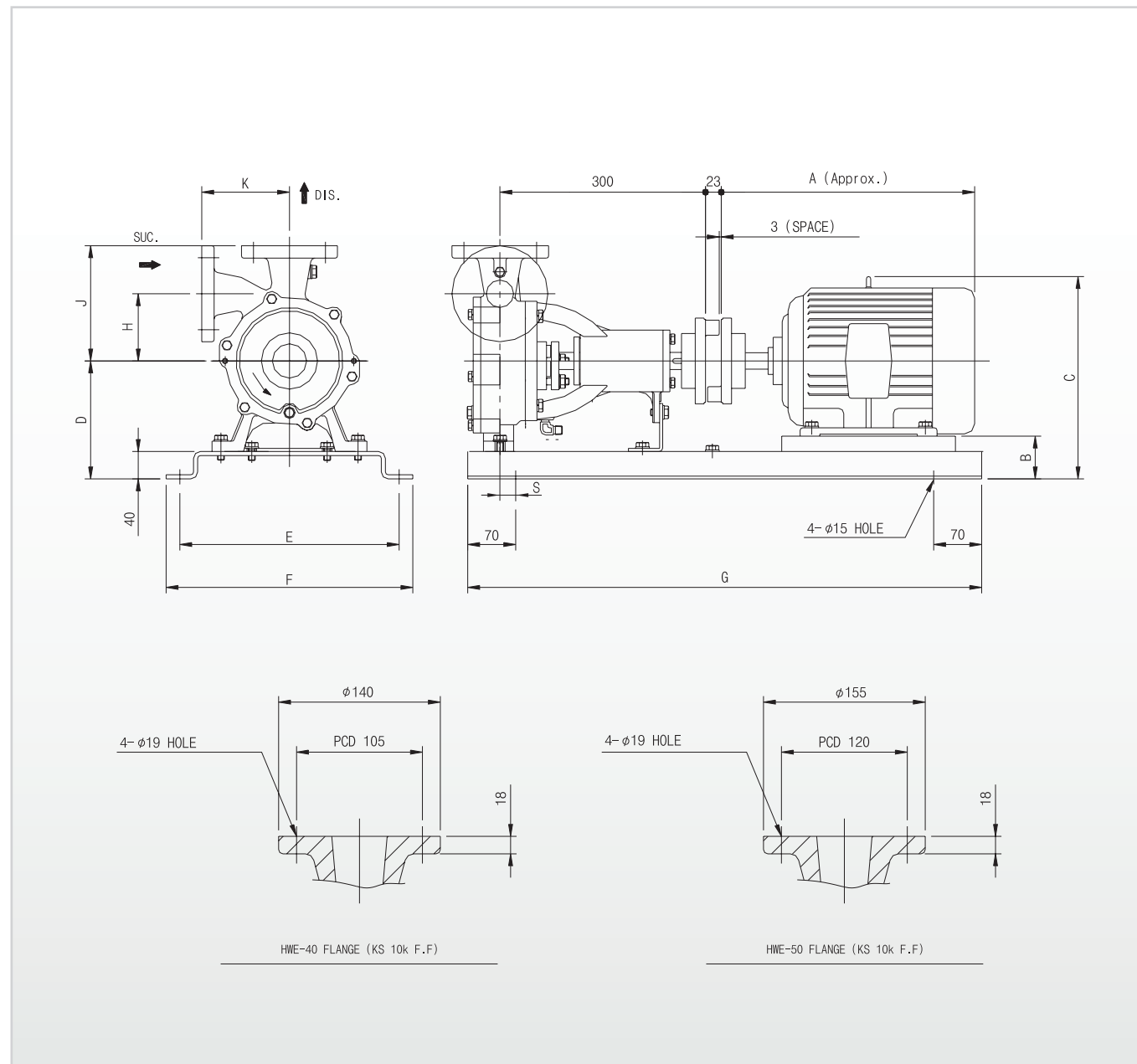
조립 단면도 Sectional Drawing



부품번호 Part No.	부품명 Part Name	표준재질 Standard Material	선택사양 Option	부품번호 Part No.	부품명 Part Name	표준재질 Standard Material	선택사양 Option
1	Casing	GC200	—	10	Bearing	Steel	—
2	Casing Cover	GC200	—	11	Support Foot	SS400	—
3	Impeller	HBsC3	SSC13	12	Impeller Key	SM50C	—
4	Shaft	SM45C	STS304	13	Coupling Key	SM50C	—
5	Bracket	GC200	—	14	O Ring	Rubber	—
6	Bearing Cover	GC200	—	15	Lock Bolt	STS304	—
7	Packing Gland	GC200	—	16	Drain Elbow	BC6	—
8	Packing	Carbonized Fiber	Teflon Impregnation	17	Mechanical Seal	SiC/Carbon	—
9	V Packing	Rubber	—	18	M/Seal Cover	GC200	—

※ Part No. 17, 18 are applicable for M/Seal Option

외형도 & 외형 치수표 Outline Drawing & Dimension



unit : mm

모델 Model	동력 Power (HP)	Pump & Motor Dimension											Bearing No	중량 Weight (kg)
		A	B	C	D	E	F	G	H	J	K	S		
HWE 40A	3	376	72	320	172	320	360	750	98	170	130	23	6305ZZ	78
HWE 40B	5	378	60	340										86
HWE 40C	7.5	442	40	360										102
HWE 40D	10	481	40	360										116
HWE 50A	5	378	60	340	172	320	360	750	100	180	140	25	6305ZZ	91
HWE 50B	7.5	442	40	360										106
HWE 50C	10	481	40	360										120
HWE 50D	15	588	40	424										163
HWE 50F	15	588	40	424	200	380	420	850						163
	20	632						850						163
								941						163



HWE

Horizontal Westco Pump

Springs of Living Water