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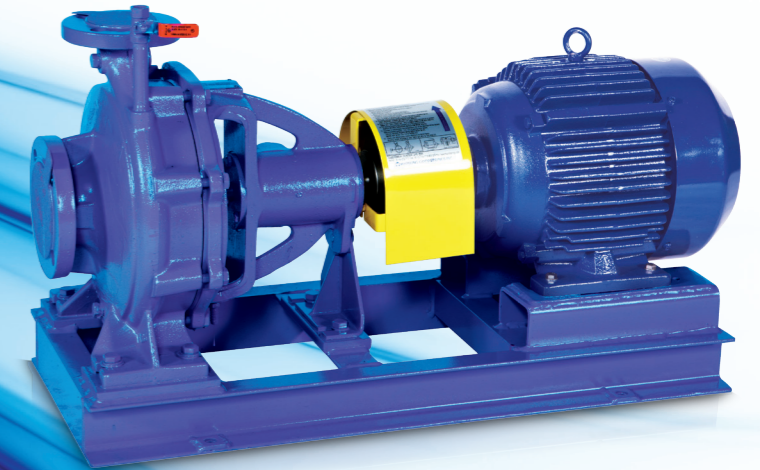


HYOSUNG GOODSPRINGS  
PUMPS  
& WATER

편흡입 볼류트 펌프

# HES

Hyosung End Suction  
Standard Pump



## 효성 굿스프링스(주)

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 Direct Contact C&I 영업팀 TEL : 82-2-3279-8253  
 A/S CENTER TEL : 82-1544-5580

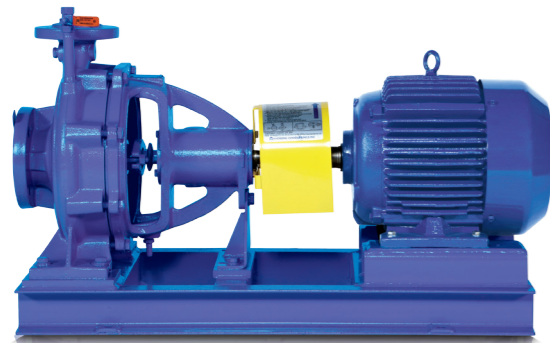
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 Customer Service Center TEL : 82-1544-5580

www.hsgoodsprings.com



## 용도 Application



## 특징 Features

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>01. 한국산업규격(KS B 7501) 제품으로 용량 및 치수를 표준화함</li> <li>02. 고객의 다양한 요구사항에 대응하는 경제적인 펌프 선택 가능</li> <li>03. 3차원 수력학적 회전차 설계 및 전산유체역학(CFD)해석으로 넓은 사용범위에서도 효율을 극대화</li> <li>04. 회전체의 동적해석(Rotor Dynamics) 및 구조물의 유한요소법(FEM) 해석을 통한 저진동, 저소음 구현</li> <li>05. 흡입, 토출 배관을 분리하지 않고 분해, 점검이 가능한 Back-Pull-Out구조 채용</li> <li>06. GT(Group Technology)기법을 도입, 부품의 호환성을 극대화시킨 구조</li> <li>07. 오랜 경험과 충분한 연구 및 최첨단 기술을 적용하여 설계되어 사용범위가 넓고, 우수한 운전특성을 지님</li> <li>08. 국내 최대 납품실적으로 다양한 산업용으로 사용중인 고신뢰성, 경제적인 제품</li> </ol> | <ol style="list-style-type: none"> <li>01. Capacity and dimension standardized to the Korean Industrial Standard (KS B 7501)</li> <li>02. A wide range of economic pump for customer's various requirements</li> <li>03. Maximized operational efficiency using 3D hydraulic impeller design and CFD analysis</li> <li>04. Low vibration and noise through Rotor Dynamic and FEM analysis</li> <li>05. Back-Pull-Out Type for disassemble and maintenance without suction and discharge pipe separated</li> <li>06. GT (Group Technology) technique for maximizing component compatibility</li> <li>07. Wide range of application coverage and outstanding operating performance through state-of-the-art technology, R&amp;D Work and sufficient experience</li> <li>08. Highly reliable and economic product for industrial use based on major reference around the world</li> </ol> |
|---|--|

## 호칭 Model Designation

# HES 50-200

펌프 모델명 <b>HES</b> Model Name	토출구경 <b>50</b> Discharge Diameter [mm]	회전차 공칭외경 <b>200</b> Impeller Nominal Diameter [mm]
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## 표준 사양 Standard Specification

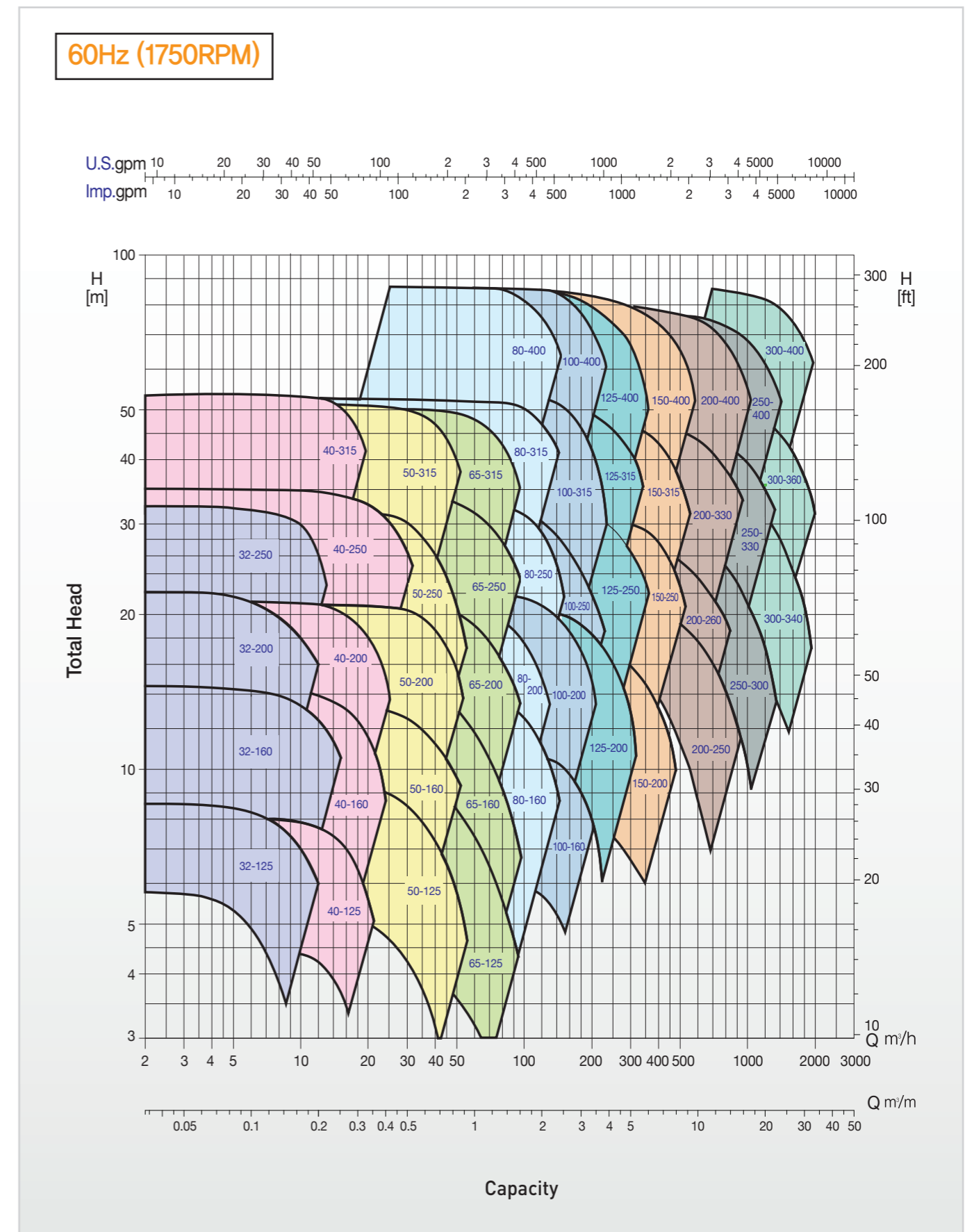
취급액	Applicable Liquid	청수 Clean Water (pH 5.8 ~ 8.6) 0 ~ 90°C
유량 / 양정	Capacity / Head	2 ~ 1,800 m³/h / 3 ~ 85 m
구경	Diameter	32 ~ 500 mm
회전방향	Rotation Direction	CW (구동기측에서 펌프를 바라 보았을 때) (From the Motor Side to the Pump)
구조 Structure	회전차 Impeller	클로즈형 Closed Type
	축봉 Shaft Seal	Packing (테프론 함침 탄화섬유) (Carbonized fibers impregnated with Teflon)
	베어링 Bearing	Ball Bearing
플랜지	Flange	KS B 1511 10K, RF
카플링 Coupling	45kW 이하 Below 45kW	몰림형 카플링 Jaw Coupling
	55kW 이상 Above 55kW	플랜지 카플링 Flange Coupling
재질 Material	케이싱 Casing	GC200 (Option : GCD450, SSC13/14/16, etc)
	회전차 Impeller	GC200 (Option : CAC406, SSC13/14/16, etc)
	축 Shaft	SM45C (Option : STS304/316/316L, etc)

### 선택사양 Option

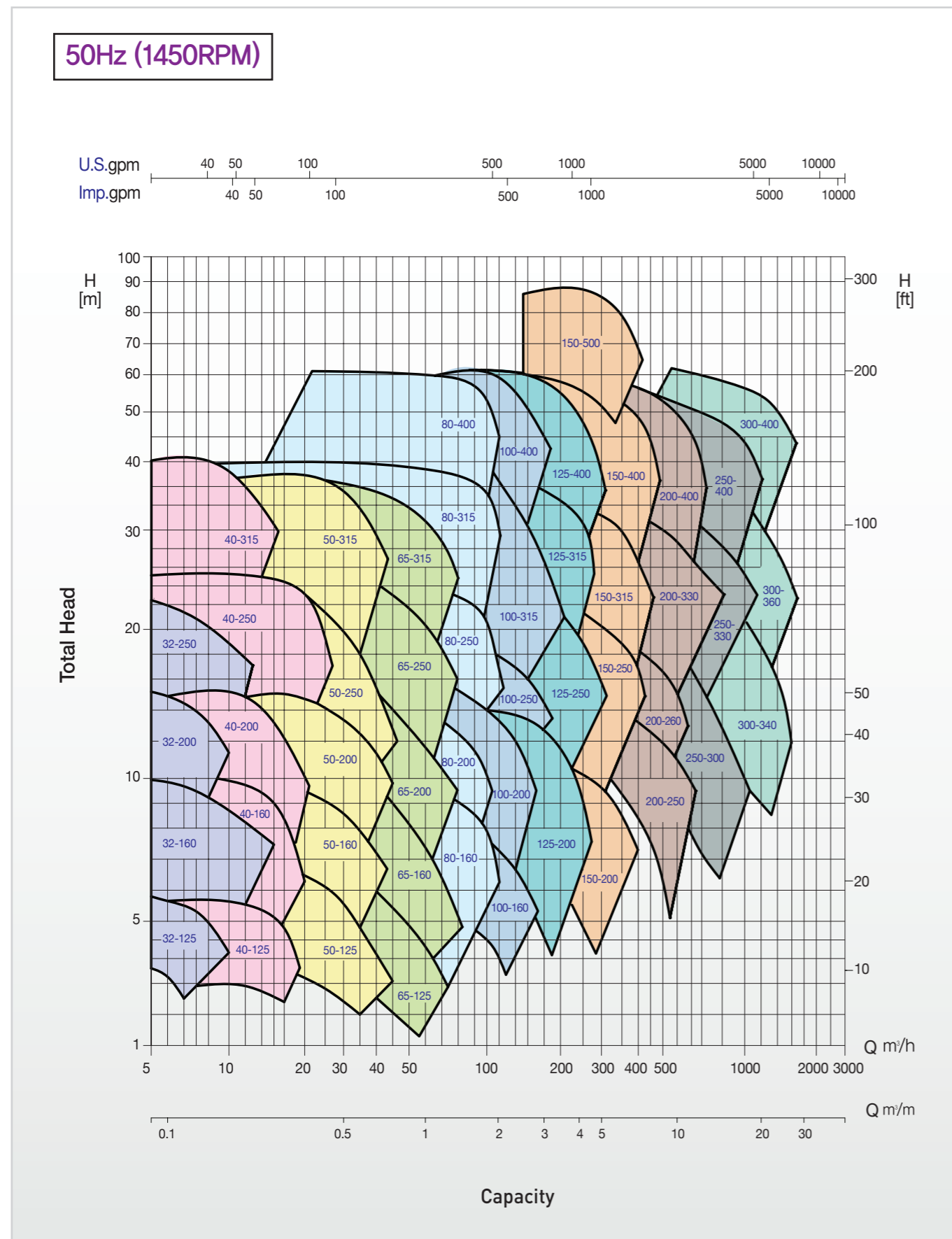
- 접액부 재질 (조립단면도 선택사양 참고)
- 축봉장치 (요구사항)
- 카플링 (요구사항)
- 전동기 형식 (요구사항)
- 각종 계기류, Drain/Vent 배관 구성
- 흡토출 플랜지 규격 (별도 문의 요망)
- 도장사항 (요구사항)
- Material of the Liquid Contacting Part (Refer to the Specifications in the Sectional Drawing)
- Shaft Seal (Requirement)
- Coupling (Requirement)
- Motor Type (Requirement)
- Instrument, Drain/Vent Piping
- Suction, Discharge Flange Specification (Contact us)
- Painting (Requirement)

※ GC200 : Cast Iron / CAC406 : Cast Bronze / GCD450 : Ductile / SSC13, SSC14, SSC16 : Stainless Steel Casting  
 ※ SM45C : Carbon Steel / STS304, STS316, STS316L : Stainless Steel

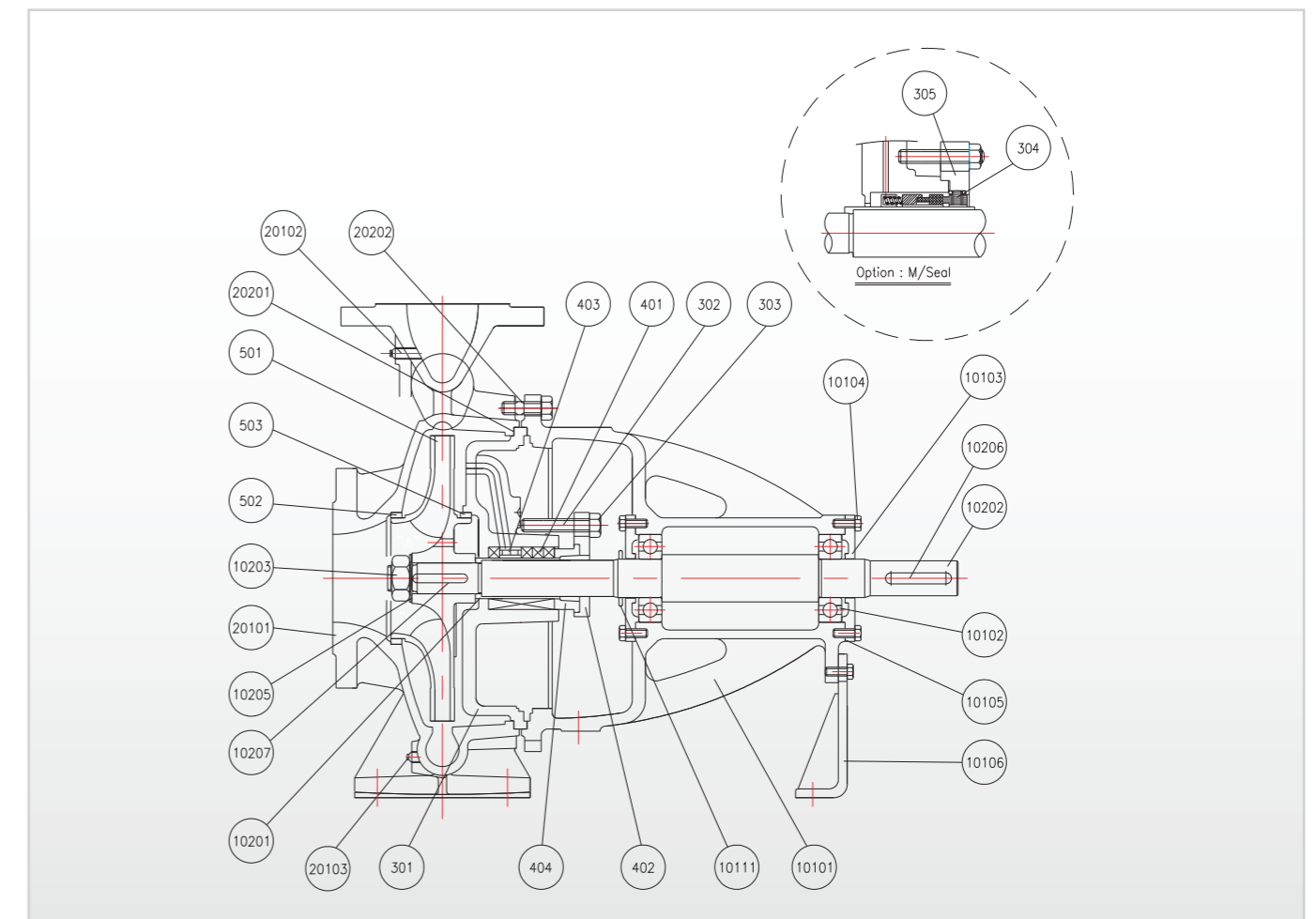
## 선정도 Selection Chart



## 선정도 Selection Chart



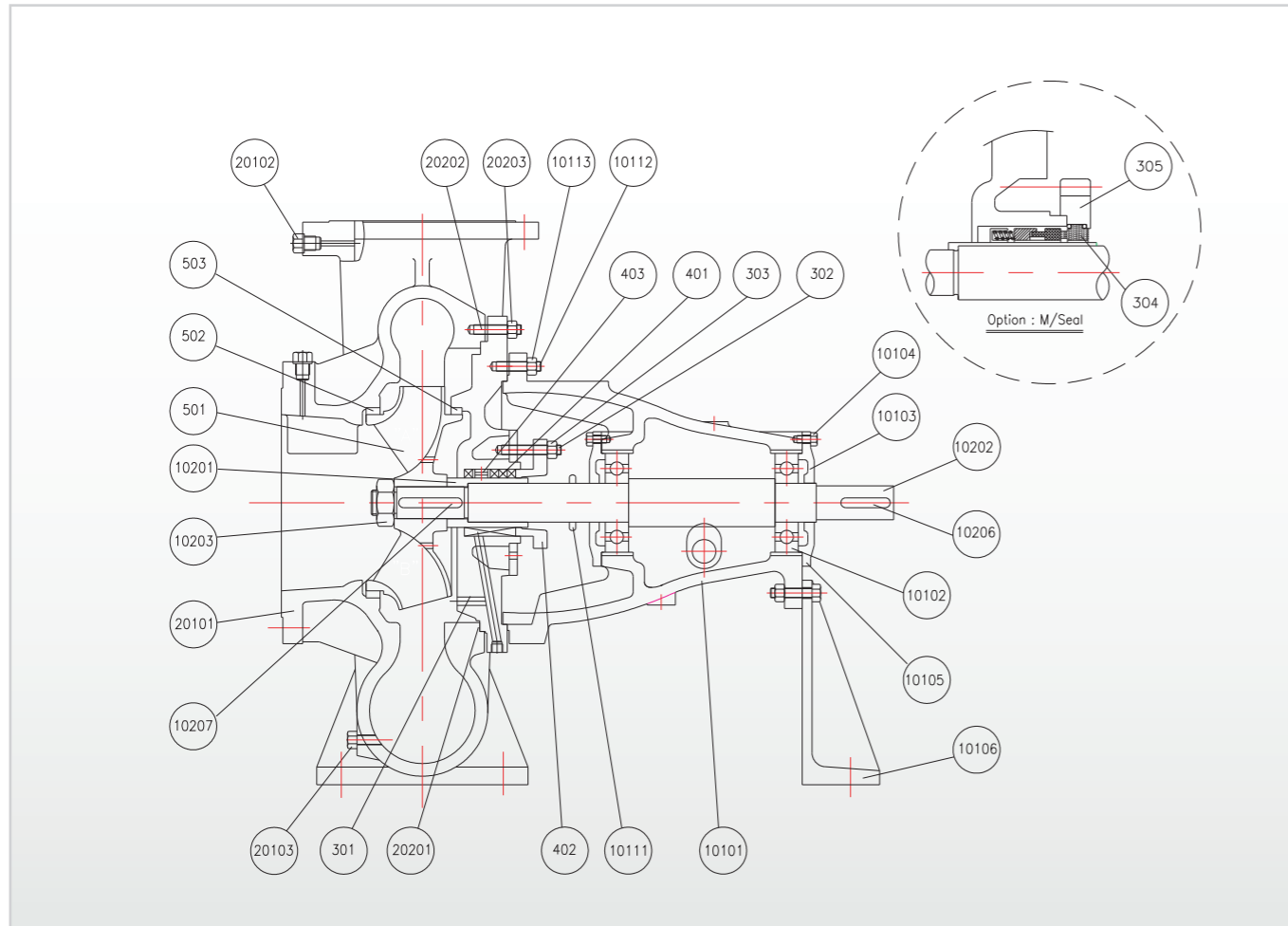
## 조립 단면도 Sectional Drawing



부품번호 Part No.	부품명 Part Name	표준재질 Material	선택사항 Option	부품번호 Part No.	부품명 Part Name	표준재질 Material	선택사항 Option
10101	Bearing Bracket	GC200	-	20103	Plug	CAC406	STS304
10102	Ball Bearing	Steel	-	20201	Gasket	Oil Paper	Teflon
10103	Bearing Cover	GC200	-	20202	Hexagon Bolt	SM45C	STS304
10104	Hexagon Bolt	SM25C	-	301	Stuffing Housing	GC200	SSC13/GCD450
10105	Gasket	Oil Paper	-	302	Stud Bolt	SM45C	STS304
10106	Support Foot	SS400	-	303	Hexagon Nut	SM45C	STS304
10111	Thrower	Rubber	-	304	Mechanical Seal	SiC/Carbon	Requirement
10201	Shaft Sleeve	SM45C	STS304	305	M/Seal Cover	GC 200	SSC13
10202	Shaft	SM45C	STS304	401	Packing	P.T.F.E	Requirement
10203	Impeller Nut	SM25C	STS304	402	Packing Gland	GC200	M/Seal
10205	Lock Washer	SS400	STS304	403	Lantern Ring	Acetal	STS304
10206	Coupling Key	SM55C	STS304	404	Packing Ring	Acetal	STS304
10207	Impeller Key	SM55C	STS304	501	Impeller	GC200	CAC406/SSC13
20101	Volute Casing	GC200	SSC13/GCD450	502	Casing Ring	GC200	SSC13
20102	Plug	CAC406	STS304	503	Casing Ring	GC200	SSC13

※ Part No. 304, 305 are applicable for M/Seal Option  
 ※ P.T.F.E : Carbonized fibers impregnated with Teflon

## 조립 단면도 Sectional Drawing

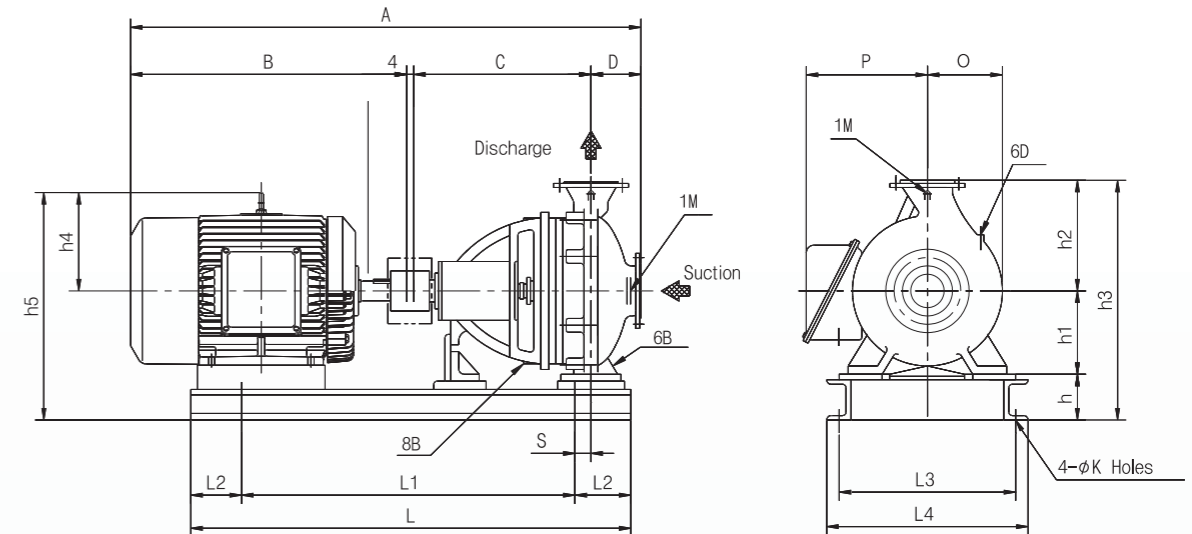


부품번호 Part No.	부품명 Part Name	표준재질 Material	선택사양 Option	부품번호 Part No.	부품명 Part Name	표준재질 Material	선택사양 Option
10101	Bearing Bracket	GC200	-	20103	Plug	CAC406	STS304
10102	Ball Bearing	Steel	-	20201	Gasket	Oil Paper	Teflon
10103	Bearing Cover	GC200	-	20202	Hexagon Bolt	SM45C	STS304
10104	Hexagon Bolt	SM25C	-	301	Stuffing Housing	GC200	SSC13/GCD450
10105	Gasket	Oil Paper	-	302	Stud Bolt	SM45C	STS304
10106	Support Foot	SS400	-	303	Hexagon Nut	SM45C	STS304
10111	Thrower	Rubber	-	304	Mechanical Seal	SiC/Carbon	Requirement
10201	Shaft Sleeve	SM45C	STS304	305	M/Seal Cover	GC 200	SSC13
10202	Shaft	SM45C	STS304	401	Packing	P.T.F.E	Requirement
10203	Impeller Nut	SM25C	STS304	402	Packing Gland	GC200	SSC13
10206	Coupling Key	SM55C	STS304	403	Lantern Ring	Acelal	-
10207	Impeller Key	SM55C	STS304	501	Impeller	GC200	CAC406/SSC13
20101	Volute Casing	GC200	SSC13/GCD450	502	Casing Ring	GC200	CAC406/SSC13
20102	Plug	CAC406	STS304	503	Casing Ring	GC200	CAC406/SSC13
20102	Plug	CAC406	STS304	503	Casing Ring	GC200	SSC13

※ Part No. 304, 305 are applicable for M/Seal Option  
 ※ P.T.F.E : Carbonized fibers impregnated with Teflon

## 외형도 Outline Drawing

[ FIGURE I ]



[ FIGURE II ]

