



VD

Vertical Double Suction Pump



Springs of Living Water



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용도 Application



특징 Features

01. 설치면적의 최소화로 높은 공간 활용, 대유량 운전이 가능하도록 설계
 02. 전동기 취부가 끼워 맞춤 공차로 취부되므로 축심 일치가 간단해지며 설치, 유지보수 작업 용이
 03. 고객의 다양한 Needs에 적용가능한 넓은 사용범위와 고효율 구현
 04. 회전체의 동적해석 및 구조물의 유한요소법 해석을 통한 저진동, 저소음 구현
 05. 수평분할구조로 분해점점이 용이하고 유지보수가 편리
 06. 짧은 베어링 스패ن(Span) 배열로 스터핑 박스에서 축 처짐을 방지
 07. 주축은 축 슬리브로 보호되므로 수명이 반영구적이며, 유지비용 절감
01. Minimum installation area for efficient space use and designed for operation at Large Capacity
 02. The motor is attached according to customized tolerance for simple shaft alignment, installation and maintenance
 03. Wide range of application and outstanding performance in operation
 04. Low vibration and noise through Rotor Dynamic and FEM analysis
 05. The casing is horizontally separated from the shaft center line for easy disassembly, repair, inspection and maintenance
 06. Minimized shaft deflection clearance by optimized short bearing span arrangement
 07. The main shaft is protected by the shaft sleeve for semi-permanent life and low maintenance cost

호칭 Model Designation

VD 250-340A

펌프 모델명

VD

Model Name

토출구경

250

Discharge Diameter [mm]

회전차 공칭외경

340

Impeller Nominal Diameter [mm]

회전차 형식 구분

A/B

Impeller Type

표준 사양 Standard Specification

취급액	Applicable Liquid	청수 Clean Water (pH: 5.8 ~ 8.6) 0 ~ 90°C
유량 / 양정	Capacity / Head	350 ~ 3,300 m³/h / 15 ~ 90m
구경	Diameter	200 ~ 300 mm
회전방향	Rotation Direction	CW (구동기 측에서 펌프를 바라보았을 때) (From the Motor Side to the Pump)
구조 Structure	회전차 Impeller	클로즈형 Closed Type
	축봉타입 Shaft Seal	Mechanical Seal
	베어링 Bearing	Ball Bearing
플랜지	Flange	KS B 1511 10K, RF
카플링	Coupling	플랜지 카플링 Flange Coupling
재질 Material	케이싱 Casing	GC200 (Option: GCD450, SC410, SSC13/14/16, etc)
	회전차 Impeller	GC200 (Option: CAC406, SSC13/14/16, etc)
	축 Shaft	SM45C (Option: SCM440, STS304/316/316L, etc)

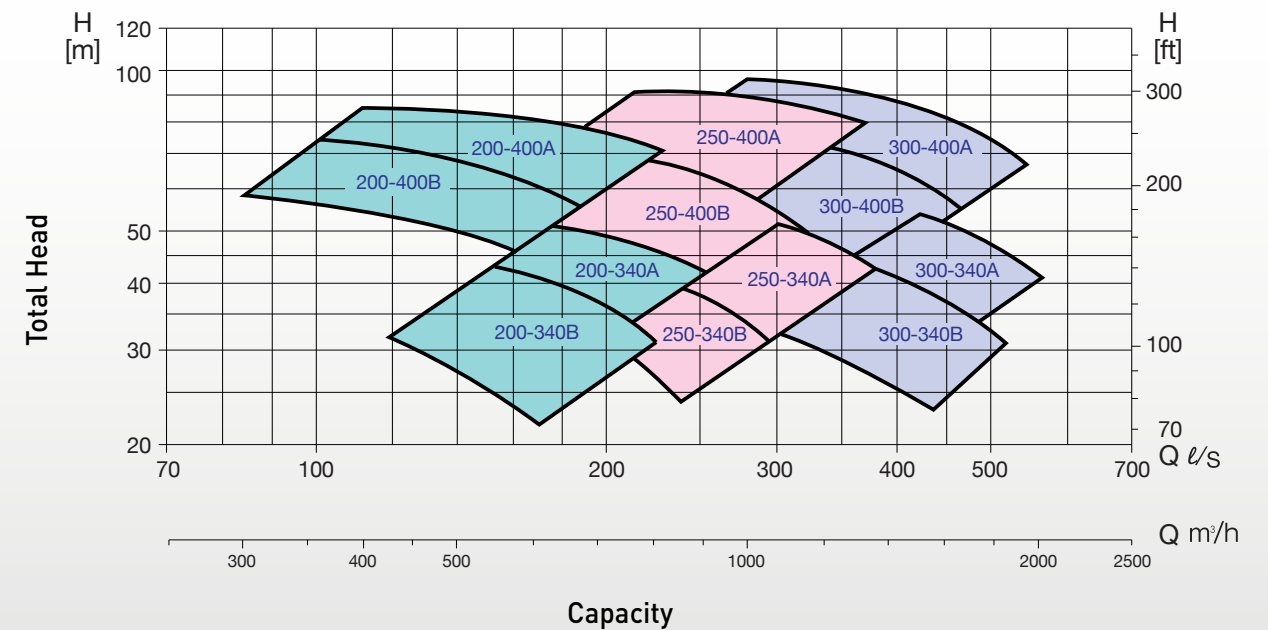
선택사양 Option

- 접액부 재질 (조립단면도 선택사항 참고)
- 고온, 고압용 Cartridge Type M/Seal
- 카플링 (요구사항)
- 전동기 형식 (요구사항)
- 각종 계기류, Drain/Vent 배관 구성
- 흡토출 플랜지 규격 (별도 문의 요망)
- 도장사양 (요구사항)
- 회전방향 (CCW)
- Material of the Liquid Contacting Part (Refer to the Specifications in the Sectional Drawing)
- Cartridge Type M/Seal for high-temperature and high-pressure
- Coupling (Requirement)
- Motor Type (Requirement)
- Instrument, Drain/Vent Piping
- Suction and Discharge Flange Specification (Contact us)
- Painting (Requirement)
- Rotation Direction (CCW)

※ GC200 : Cast Iron / CAC406 : Cast Bronze / GCD450 : Ductile / SC410 : Carbon Steel / SSC13, SSC14, SSC16 : Stainless Steel Casting
※ SM45C : Carbon Steel / SCM440 : Cr-Mo Steel / STS304, STS316, STS316L : Stainless Steel

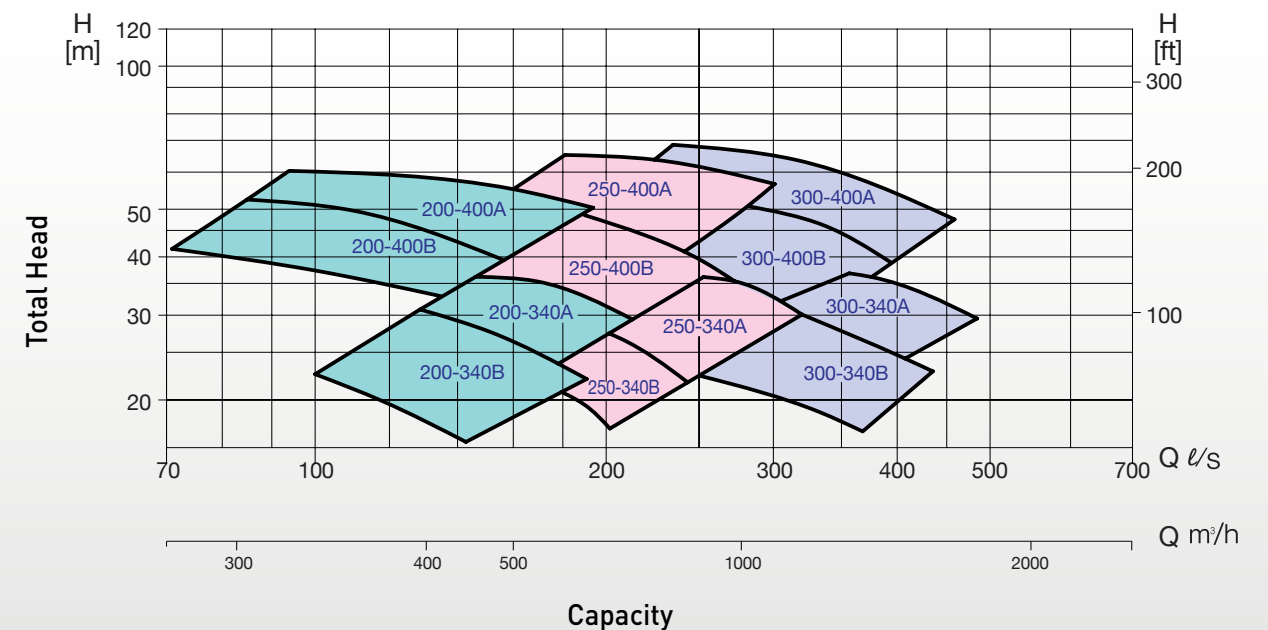
선정도 Selection Chart

60Hz (1750RPM)



※ 구경 300mm이상은 별도 문의바랍니다.
※ For a diameter of 300mm or bigger, contact to head office.

50Hz (1450RPM)



구조 특징 Structural Features

펌프 스러스트 베어링 적용
Pump Thrust Bearing

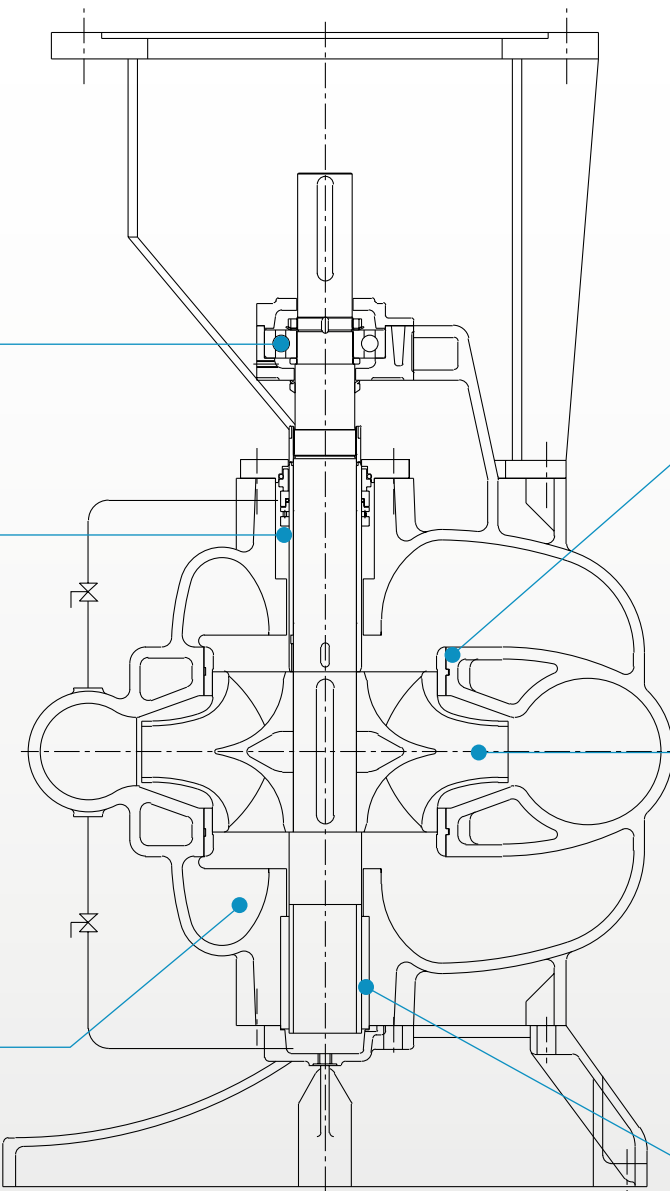
베어링은 그리스 윤활이며
운전 및 정비가 간단함
Designed for grease
lubrication, simple operation
and repair, and enough life

축 보호 슬리브
Shaft Protecting Sleeve

슬리브 적용으로 축 마모 방지
Sleeve to prevent the shaft
from wearing

케이싱 구조
Casing Structure

수평분할구조로 분해점검
및 유지보수가 편리
Easy to disassemble, inspect,
repair and maintain due
to horizontally separated
structure



케이싱링
Casing Ring

케이싱의 마모 방지
Prevention of casing wearing

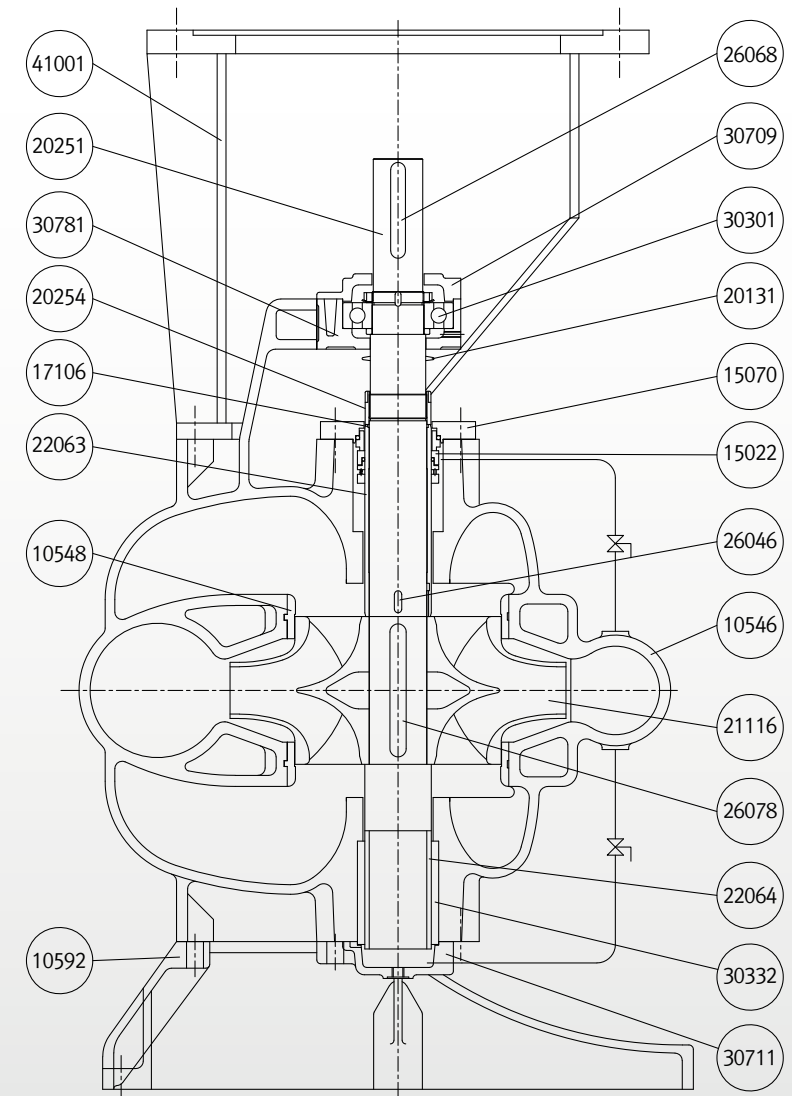
양흡입 회전차 적용
Double suction Impeller

펌프의 축추력을 상쇄하는 구조
완벽한 동바란싱 구현
Structure to offset the
pump's axial thrust
Perfect dynamic balancing

저널 베어링 적용
Journal Bearing

축의 흔들림을 방지
Prevention of shaft shaking

조립 단면도 Sectional Drawing

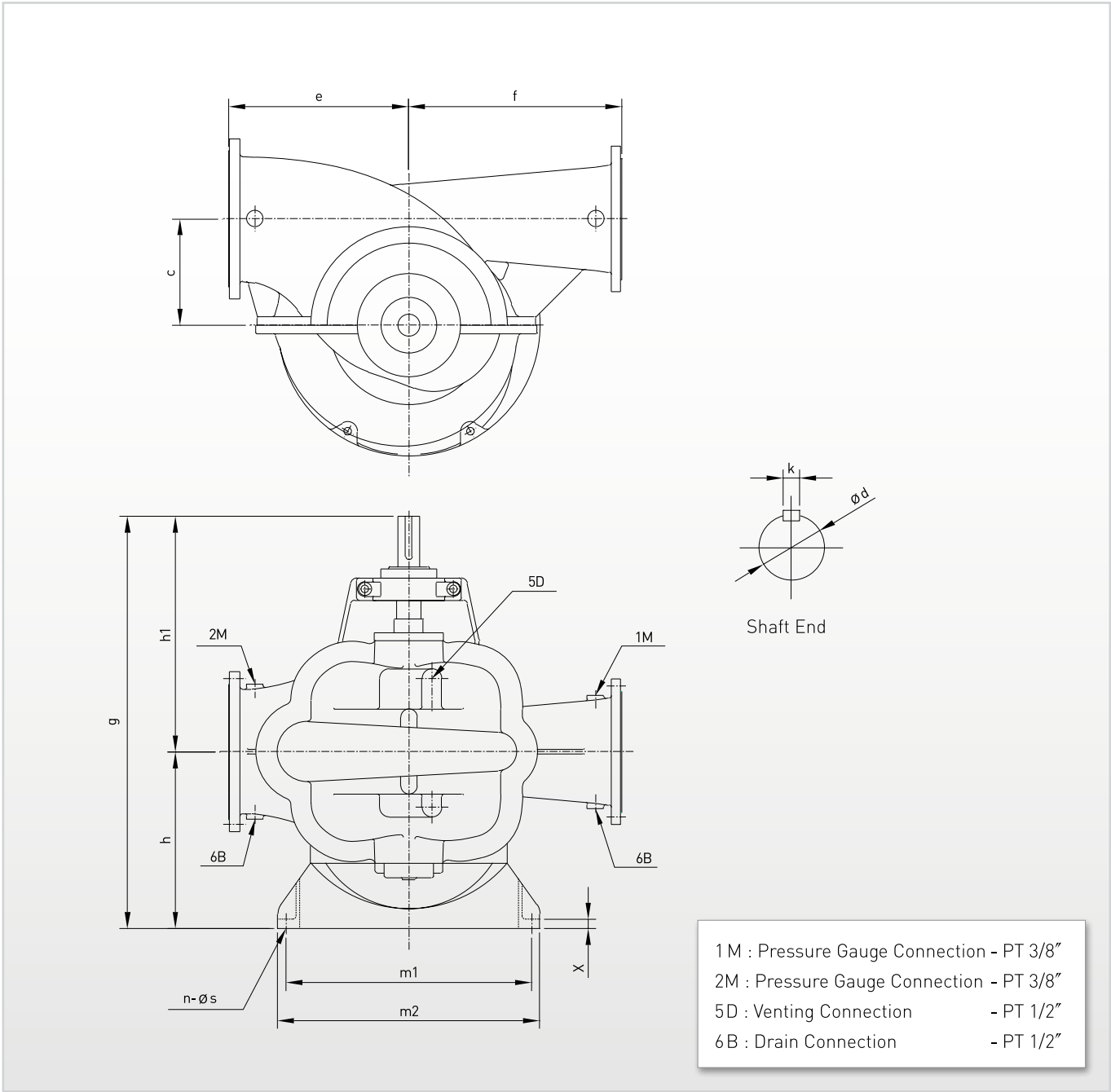


부품번호 Part No.	부품명 Part Name	표준재질 Standard Material	선택사양 Option	부품번호 Part No.	부품명 Part Name	표준재질 Standard Material	선택사양 Option
10546	Casing	GC200	GCD450/SC410/SSC13,14,16	22064	Shaft Sleeve	STS304	STS316,316L
10548	Casing Wearing Ring	GC200	SSC13,14,16	26046	Sleeve Key	SM45C	STS304,316,316L
10592	Pump Foot	GC200	-	26068	Coupling Key	SM45C	-
15022	Mechanical Seal	SiC/Carbon	-	26078	Impeller Key	SM45C	STS304,316,316L
15070	M/Seal Cover	STS304	STS316,316L	30301	Ball Bearing	Steel	-
17106	O-ring	Rubber	-	30332	Journal Bearing	ACM	Thordon
20131	Protect Ring	Rubber	-	30709	Bearing Cover	GC200	-
20251	Shaft	SM45C	SCM440/STS304,316,316L	30711	Bearing Cover-E	GC200	-
20254	Shaft Nut	SM45C	STS304,316,316L	30781	Bearing Housing	GC200	-
21116	Impeller	GC200	CAC406/SSC13,14,16	41001	Motor Stool	SS275	-
22063	Shaft Sleeve	STS304	STS316,316L				

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외형도 & 외형 치수표 Outline Drawing & Dimension



Model	구경 Diameter		Pump											Stub	Shaft	중량 Weight (kg)
	흡입 Suction	토출 Discharge	c	e	f	g	h	h1	m1	m2	n	s	x	dh6	k	
VD200-340	250	200	240	400	400	980	385	595	650	700	6	18	25	45	14	568
VD200-400	250	200	240	450	450	970	375	595	650	700	6	18	25	45	14	640
VD250-340	300	250	300	500	500	1110	455	655	650	700	6	18	25	55	16	799
VD250-400	300	250	300	550	550	1095	415	680	650	700	6	18	25	55	16	885
VD300-340	350	300	330	650	500	1247	520	727	650	700	6	18	25	65	20	1168
VD300-400	350	300	325	550	650	1255	535	720	750	800	6	23	28	65	20	1280

※ 전동기 사양에 따라 외형도가 상이하므로 별도 문의바랍니다.
※ The appearance varies by motor specifications. For more information, contact to head office.



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