



경원내산펌프

Kyungwon ***KVT*** Vertical Sump Pump ***EFV*** FRP Vertical Pump



KYUNG WON ACID-PROOF PUMP

KYUNG WON VERTICAL SUMP PUMP

입형 오수 펌프 *Vertical Sump Pump*



☛ 용도 및 적용 분야 / Usages and Applications

- 청수, 해수, 화학액 등에 사용된다
(For clean water, sea water, chemicals, etc.)
- 펄프 제지공업용, 발전소용, 하수처리 플랜트용, 화학 및 석유화학 플랜트용, 식품공업용, 제철 공업용 등의 섬프, 보조수 등
(Services such as sump, auxiliary water, in the pulp and paper industry, power plants, sewage treatment plants, chemical and petrochemical plants, foodstuffs industries, steel industry etc.)

☛ 설계 및 구조적 특징 / Design and Construction Features

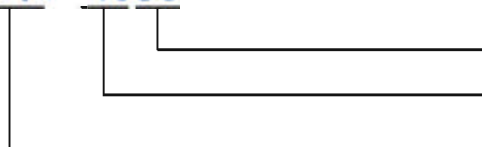
- 수직형이므로 설치 면적이 적고 자동운전에 적합하다.
(Vertical construction, reduced installation space and suitable for automatic operation.)
- 오일셀과 가스켓으로 밀봉한 보호관에 의해 축이 보호된다.
(Shaft is protected by the shaft protection tube with sealing oil seal and gasket.)
- 견고하게 지지된 상부베어링과 메탈베어링에 의하여 진동이 적어 안정운전이 가능하다.
(Smooth and stable operation is guaranteed by bearings securely supported.)
- 사용 영역이 광범위 하다.
(A wide range of hydraulic coverage)
- 특수 액체용으로 접액부 특수재질 사용가능하다.
(Special materials(stainless steel etc.) available.)
- 베이스 플레이트 기밀 구조도 가능하다.
(Gas-tight base plate available if requested.)
- 모든 펌프는 구동에서 보아서 우회전이다.
(All the pumps are clockwise rotation when viewed from the drive end.)

☛ 흡 토출 Flange의 위치 / Flange positions

- 흡입 Flange : 축하단부 (Suction Flange : Bottom end)
- 토출 Flange : 베이스 플레이트상 수직방향 (Delivery Flange : Upright direction on the base plate)

☛ 형식표기 방법 / Type Nomenclature

K VT-4033



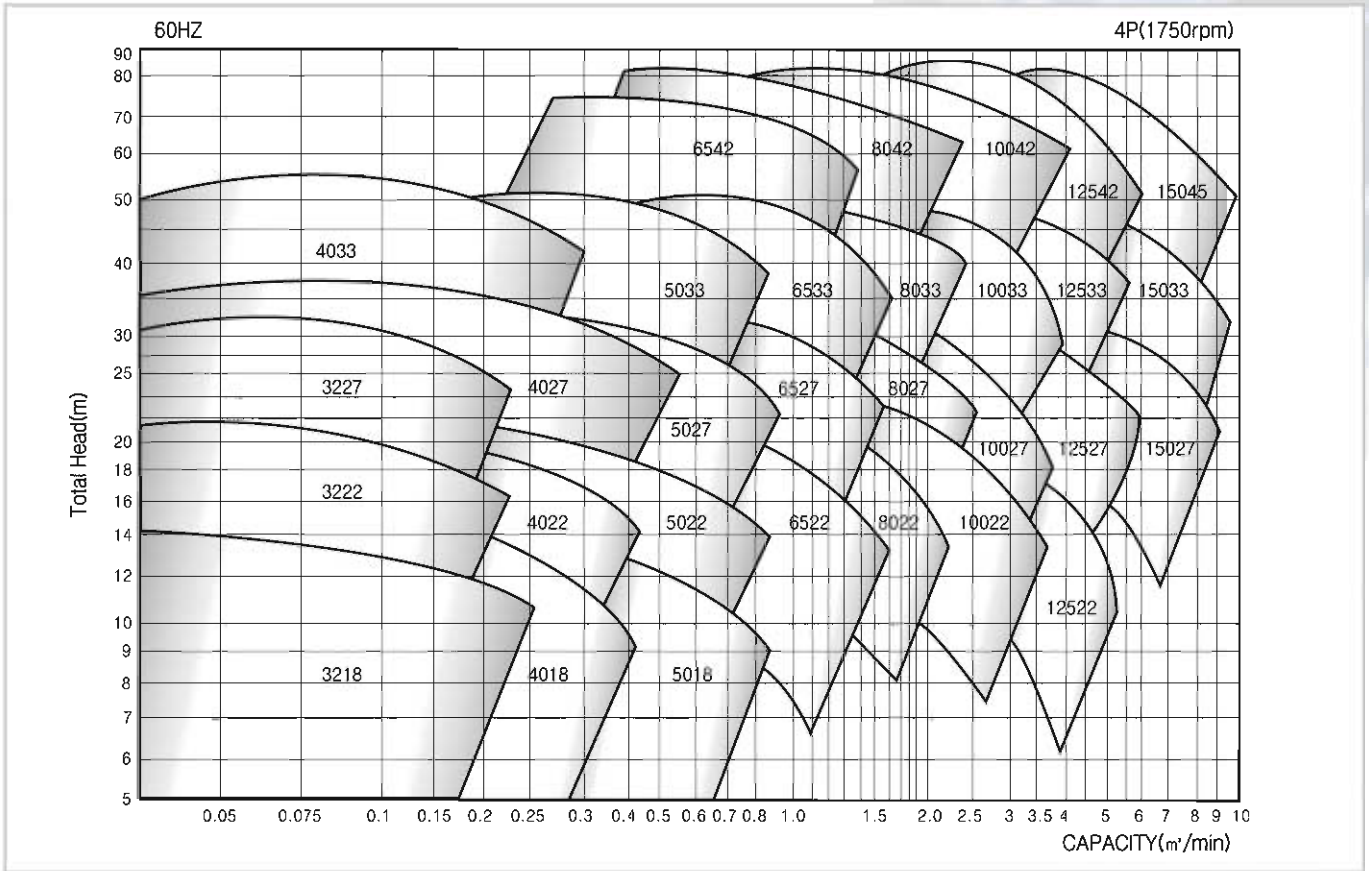
임펠러 외경 (Impeller Outer Diameter)

토출구경 (Discharge Flange)

형식 (Pump Model)

KYUNG WON VERTICAL SUMP PUMP

선택도 / Selection Chart

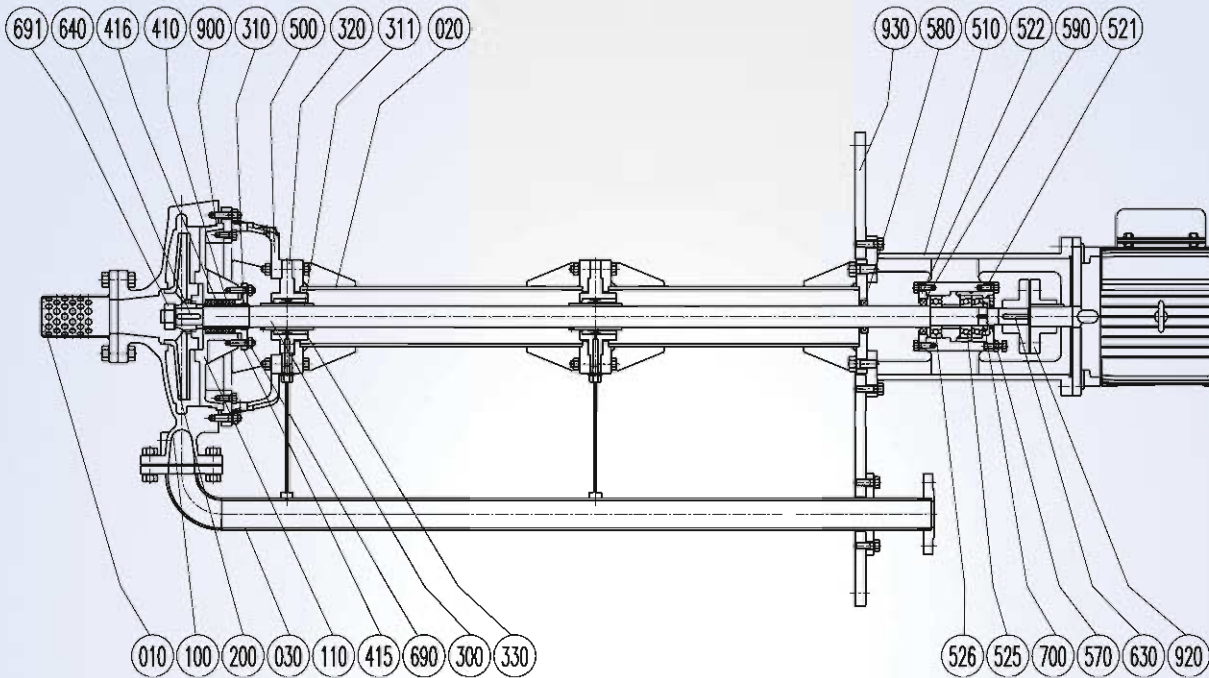


재질 선정표 / Material Selection Chart

PART No.	NAME OF PARTS	MATERIALS							
		CAST IRON	CARBON STEEL	304SS	316SS	316LSS	ALLOY-20	TITANIUM	HAS-C
1	CASING	GC200	SC42	SSC13	SSC14	SSC16	ALLOY-20	TITANIUM	HAS-C
2	CASING COVER	GC200	SC42	SSC13	SSC14	SSC16	ALLOY-20	TITANIUM	HAS-C
3	IMPELLER	GC200	SC42	SSC13	SSC14	SSC16	ALLOY-20	TITANIUM	HAS-C
4	IMPELLER NUT	SM45C	SM45C	STS304	STS316	STS316L	ALLOY-20	TITANIUM	HAS-C
5	SHAFT	SM45C	SM45C	STS304	STS304	STS316L	STS316L	STS316L	STS316L
6	SLEEVE	STS304	STS304	STS304	STS316	STS316L	ALLOY-20	TITANIUM	HAS-C
7	PACKING GLAND	GC200	SC42	SSC13	SSC14	SSC16	ALLOY-20	TITANIUM	HAS-C
8	SUCTIONS TRAINER	SS400	SS400	STS304	STS316	STS316L	Customer Demand		
9	ADAPTOR	GC200	SC42	SSC13	SSC14	SSC16			
10	DISCHARGE PIPE		SPP	STS304	STS316	STS316L			
11	COLUMN PIPE		SPP	STS304	STS316	STS316L			
12	GLAND PACKING				TEFLON				
13	LANTERN RING				BC3 / P.P				
14	B/R HOUS ING				GC200				
15	B/R CASE				GC200				
16	B/R COVER				GC200				
17	BEARING				STB2				
18	OIL SEAL				NBR				
19	BASE				SS400				

KYUNG WON VERTICAL SUMP PUMP

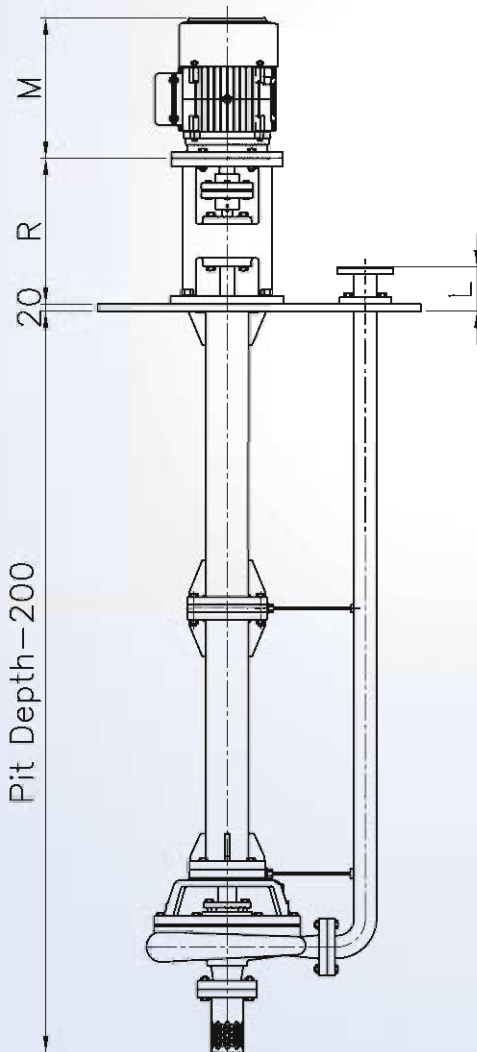
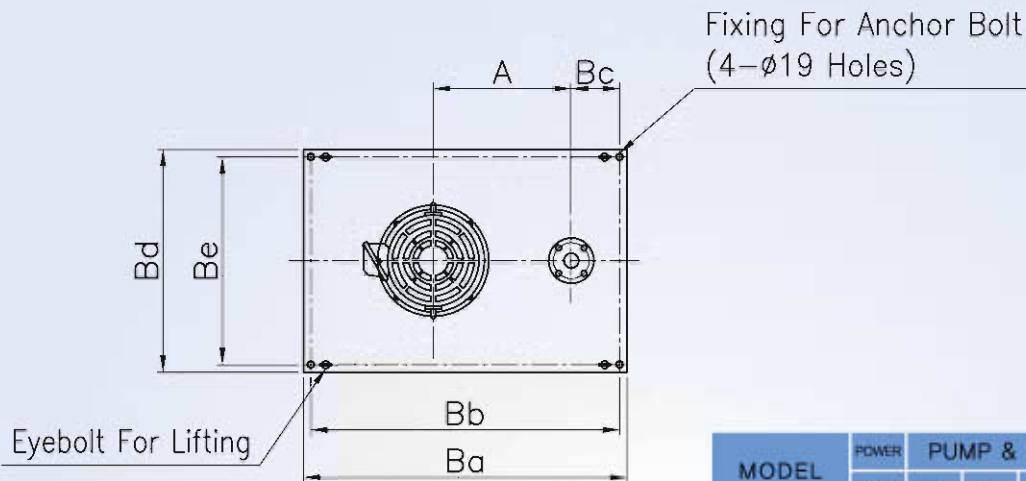
☉ KVT 단면도 / Sectional Drawing



NO	DESCRIPTION	MATERIAL	Q'TY	NO	DESCRIPTION	MATERIAL	Q'TY
010	STRAINER	Customer demand	1	510	BRG. HOUSING	GC200	1
020	COLUMN PIPE	Customer demand	1	521	BRG. CASE	GC200	1
030	DIS. PIPE	Customer demand	1	522	BRG. COVER	GC200	1
100	CASING	Customer demand	1	525	BEARING	STB2	2
110	CASING COVER	Follow in Casing	1	526	BEARING	STB2	1
200	IMPELLER	Customer demand	1	570	OIL SEAL	N.B.R	1
300	SHAFT	Customer demand	1	580	OIL SEAL	N.B.R	1
310	SLEEVE	Follow in Shaft	1	590	OIL SEAL	N.B.R	1
311	RETAINER SLEEVE	Follow in Shaft	According to the No. of Retainer	630	KEY	SM45C	1
320	RETAINER	Follow in Casing	1	640	KEY	Follow in Shaft	1
330	RETAINER BUSHING	BC3	According to the No. of Retainer	700	LOCK NUT, WASHER	SM45C	1
410	PACKING	TEFLON	4	900	O-RING	N.B.R	1
415	PACKING GLAND	Customer demand	1	920	COUPLING	GC200	1
416	LANTERN GLAND	P.P	1	930	BASE	SS400	1
500	ADAPTOR	Follow in Shaft	1				

KYUNG WON VERTICAL SUMP PUMP

☉ KVT 치수도



MODEL	POWER	PUMP & MOTOR				BASE PLATE SIZE			
	KW	A	M	R	L	Ba	Bb	Bd	Be
KVT-3222	1.5	247	315	320	120	700	650	500	450
KVT-3227	2.2	292	346	320	120	700	650	500	450
KVT-4022	2.2	256	330	320	120	700	650	500	450
KVT-4027	3.7	301	330	320	120	750	700	550	500
KVT-4033	5.5	326	379	395	120	800	750	600	550
KVT-5022	3.7	295	330	320	120	750	700	550	500
KVT-5027	5.5	320	379	395	120	800	750	600	550
KVT-5033	7.5	375	417	395	120	850	800	650	600

MODEL	POWER	PUMP & MOTOR				BASE PLATE SIZE			
	KW	A	M	R	L	Ba	Bb	Bd	Be
KVT-6522	5.5	341	379	395	150	800	750	600	550
KVT-6527	7.5	366	417	395	150	850	800	650	600
KVT-6533	11	396	474	395	150	900	850	700	650
KVT-6542	15	396	518	425	150	950	900	750	700
KVT-8022	7.5	385	417	395	150	850	800	650	600
KVT-8027	11	415	474	425	150	900	850	700	650
KVT-8033	15	450	518	425	150	950	900	750	700
KVT-8042	18.5	450	537	485	150	1000	950	800	750

MODEL	POWER	PUMP & MOTOR				BASE PLATE SIZE			
	KW	A	M	R	L	Ba	Bb	Bd	Be
KVT-10022	15	453	518	425	170	950	800	750	700
KVT-10027	18.5	453	537	485	170	1000	950	800	750
KVT-10033	22	488	537	485	170	1050	1000	850	800
KVT-10042	30	528	596	485	170	1100	1050	900	850
KVT-12522	18.5	528	537	485	170	1000	950	800	750
KVT-12527	22	568	537	485	170	1050	1000	850	800
KVT-12533	30	568	596	485	170	1100	1050	900	850

※ 고객의 요청에 의해 변경 가능합니다.

KYUNG WON FRP VERTICAL PUMP

FRP 입형 펌프 *FRP Vertical Pump*

용도 및 적용분야 / Usages and Applications

- 각종화학약품 이송 (Transport for various chemicals.)
- 식품 및 의약분야 (Food, Medicine transfer.)
- 철강 및 광업 분야 (Fly ash coal dust.)
- 공해 및 폐수처리 분야 등 (Polluted waste treatment.)

설계 및 구조적 특징 / Design and Costruction Features

- 내식성 및 내약품성이 우수하다. (Excellent corrosion resistance and chemical resistivity)
- 내열성이 우수하다. (Excellent heat resistance.)
- 단열성이 우수하다. (Excellent adiabatic material.)
- 광범위한 사용 영역 (A wide range of hydraulic coverage.)
- 유리섬유(GLASS FIBERS)로 보강하여 기계적 강도가 높다 (High intensity.)
- 보수가 용이하다. (Maintenance is easy.)



재질 / Materials

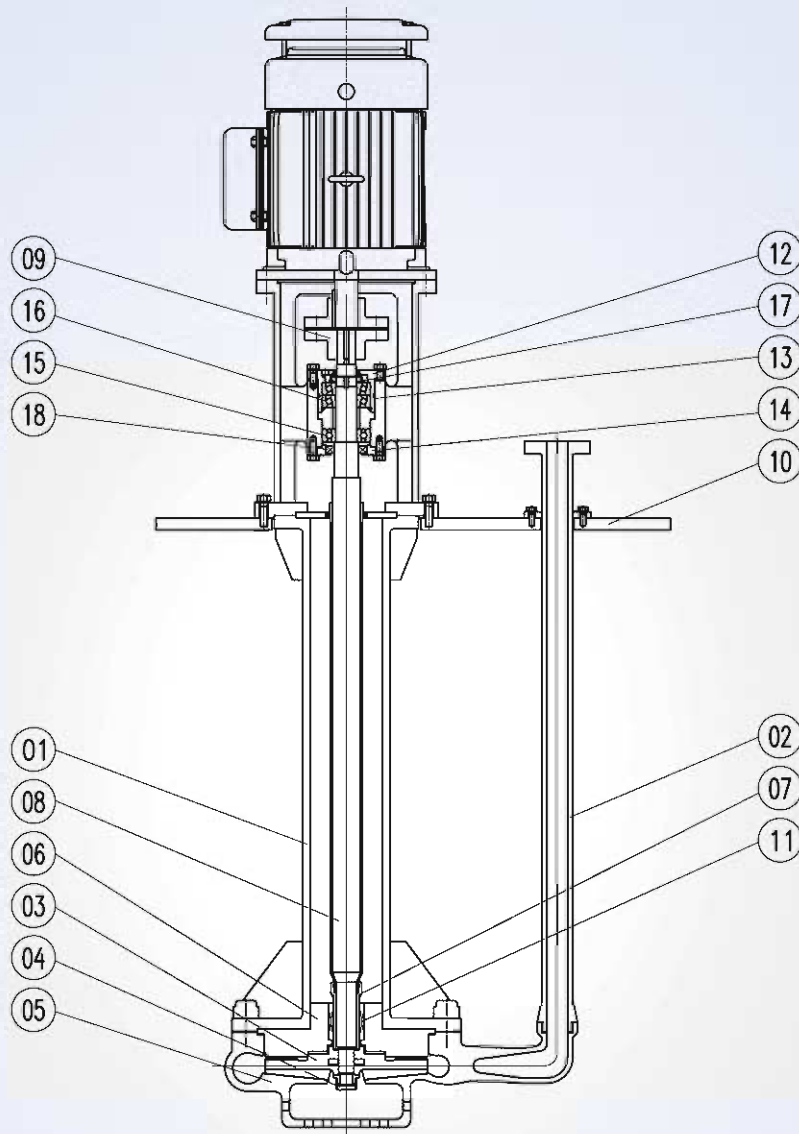
- FRP #RF-1001, 고내식용 (비스페놀 A형 에폭시 아크릴 레이트 (DGEBA Type Epoxy Acrylate))
- #RF-1051, 초내식용 (노브락용 에폭시 아크릴 레이트 (Novolac Type Epoxy Acrylate))

선정도 / Selection Chart

MODEL	BORE SUC×DIS	CAPACITY (m ³ /min)	HEAD (m)	MOTOR		MODEL	BORE SUC×DIS	CAPACITY (m ³ /min)	HEAD (m)	MOTOR	
				KW	RPM					KW	RPM
EFV-2518	32×25	0.08	15	1.5	1750	EFV-8022	100×80	1.6	18	11	1750
EFV-3218	40×40	0.15	10	1.5	1750	EFV-8027			29	15	1750
EFV-3222			18	2.2	1750	EFV-8033			45	30	1750
EFV-4018	50×40	0.15	10	1.5	1750	EFV-10022	125×100	2.5	18	15	1750
EFV-4022			18	2.2	1750	EFV-10027			29	22	1750
EFV-4027			28	3.7	1750	EFV-10033			45	37	1750
EFV-5022	65×50	0.45	18	3.7	1750	EFV-12522	150×125	4.0	18	19	1750
EFV-5027			28	5.5	1750	EFV-12527			29	37	1750
EFV-6522	80×65	0.9	18	5.5	1750	EFV-12533			45	55	1750
EFV-6527			25	11	1750	EFV-15027	200×150	6.0	18	45	1750
EFV-6533			45	19	1750	EFV-15033			6.5	45	75

KYUNG WON FRP VERTICAL PUMP

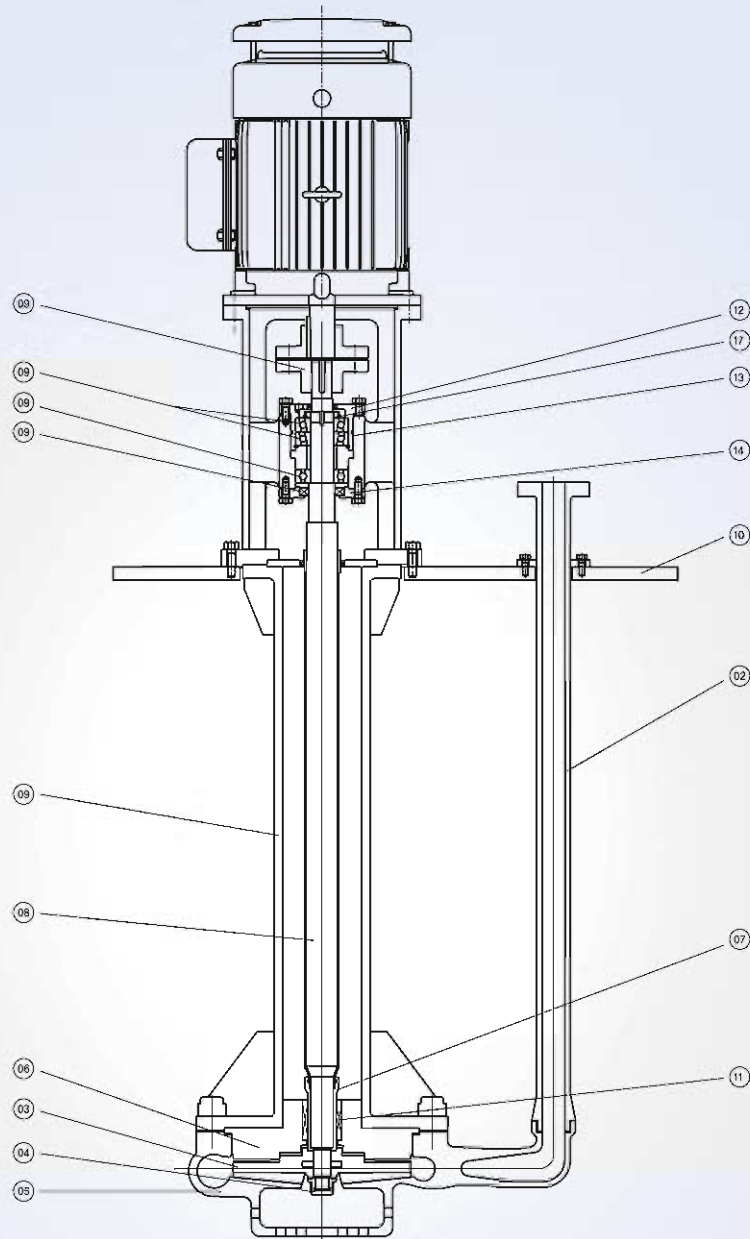
EFV 단면도 / Sectional Drawing



No.	DESCRIPTION	KM-1	Q'TY	REMARKS	No.	DESCRIPTION	KM-1	Q'TY	REMARKS
		MATERIAL					MATERIAL		
01	COLUMN PIPE	FRP	1		09	COUPLING	GC200	1	
02	DISCHARGE PIPE	FRP	1		10	BASE	SS400	1	FRP 3mm Coating
03	IMPELEER	FRP	1		11	BUSHING	TEFLON	1	
04	IMPELLER NUT	FRP	1		12	MOTOR BASE	GC200	1	
05	CASING	FRP	1		13	BRG. COVER(DE)	GC200	1	
06	CASING COVER	FRP	1		14	BRG. COVER(NDE)	GC200	1	
07	SLEEVE	Customer demand	1		15	BEARING	STB2	1	
08	SHAFT	STS304	1	FRP 3mm Coating	16	BEARING	STB2	2	

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EFV 단면도 / Sectional Drawing



No.	DESCRIPTION	KM-1	Q'TY	REMARKS	No.	DESCRIPTION	KM-1	Q'TY	REMARKS
		MATERIAL					MATERIAL		
01	COLUMN PIPE	FRP	1		09	COUPLING	GC200	1	
02	DISCHARGE PIPE	FRP	1		10	BASE	SS400	1	FRP 3mm Coating
03	IMPELLEER	FRP	1		11	BUSHING	TEFLON	1	
04	IMPELLER NUT	FRP	1		12	MOTOR BASE	GC200	1	
05	CASING	FRP	1		13	BRG. COVER(DE)	GC200	1	
06	CASING COVER	FRP	1		14	BRG. COVER(NDE)	GC200	1	
07	SLEEVE	Customer demand	1		15	BEARING	STB2	1	
08	SHAFT	STS304	1	FRP 3mm Coating	16	BEARING	STB2	2	