

HD SERIES

SUBMERSIBLE DEWATERING PUMPS

POWER : 1.5~20HP (1.1~15kW)
MAX.HEAD : 59m(194feet)
MAX.FLOW : 2.7m³/min (162m³/h)



PRODUCT NOMENCLATURE

Example :

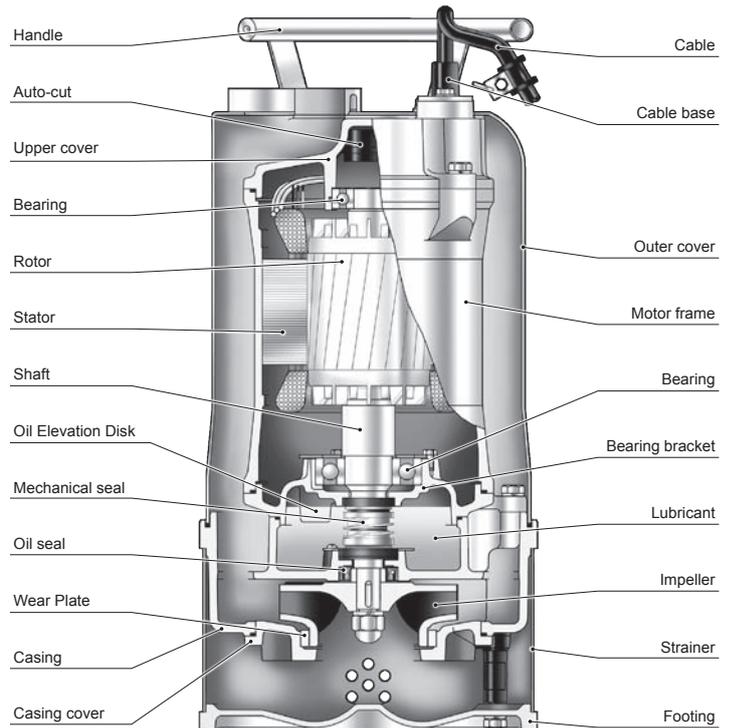
100	HD	2	5.5
Discharge mm	Type	Pole	kW

FEATURES

- Compact, robust and easy handling for all construction and civil engineering dewatering application conditions.
- Stainless steel SUS304 water cooling motor for continuous duty and low water level conditions.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, lip oil seal design, and High Solid Epoxy coating.
- Optional discharge connection(hose, flange, Center Line Flange and thread connection).
- High efficient special impeller design in High Chrome Alloy steel (HiCrFC), with a hardness of 55 - 60 Rockwell, to stand high abrasive applications.

APPLICATIONS

- Civil engineering, dewatering, tunneling, groundworks, mining and manhole sewer.
- Industrial wastewater dewatering of fluids containing solid sediments.
- Portable use for contractors, installers and industry.



HD SERIES SUBMERSIBLE DEWATERING PUMPS

80HD21.5 · 80HD22.2 · 80HD23.7 · 100HD23.7

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Close
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403(2~3HP) · SUS304(5HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear Plate	HiCrFC
	Cable	VCT or H07RN-F or SJOW/SOW
Optional	-	



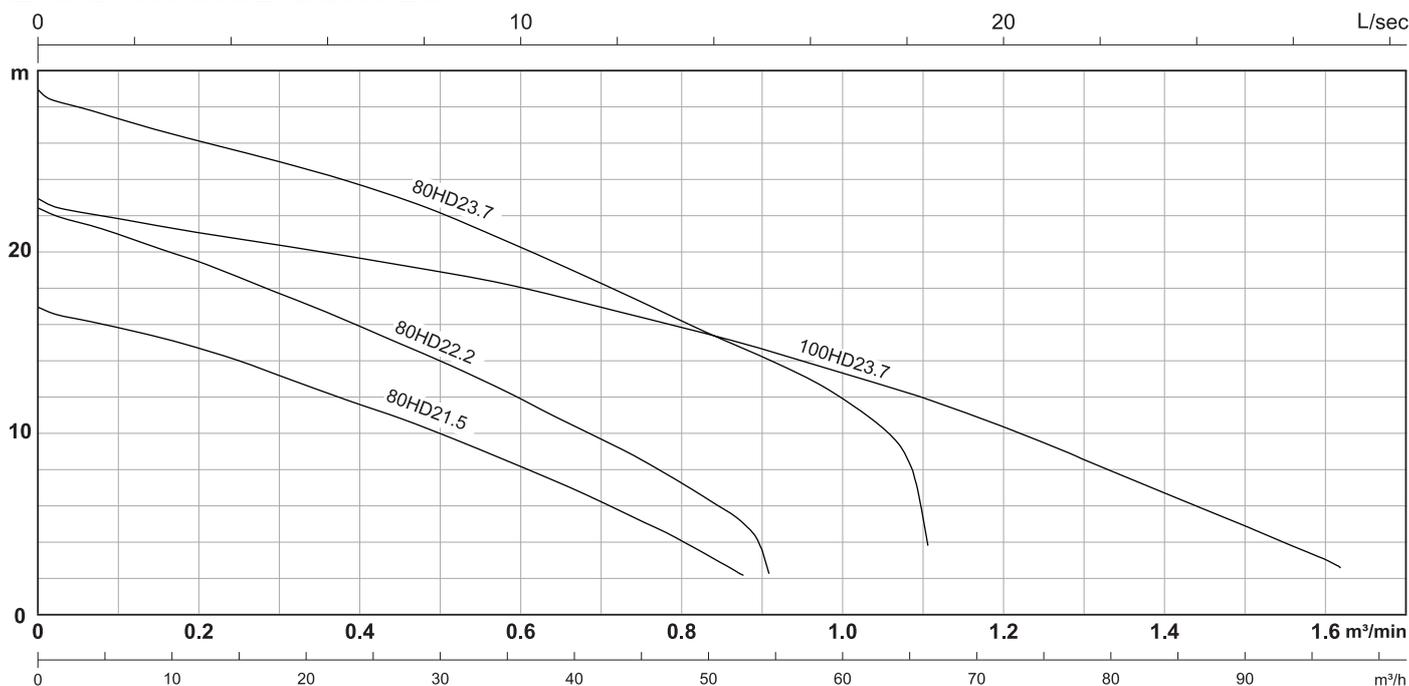
Close Impeller



80HD21.5 · 80HD22.2
80HD23.7 · 100HD23.7

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase	Full load Ampere						
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lbs)	3Ø-kg(lbs)		Voltage	220V	230V	230V	380V	400V	415V
80HD21.5	2(1.5)	3"(80)	10-0.5	10-30	17-0.9	17-54	10(3/8")	40(88)	36(79)	Full load Ampere	10.2	10.0	6.2	3.6	3.4	3.4	2.7
80HD22.2	3(2.2)	3"(80)	14-0.5	14-30	22.5-1.0	22.5-60	10(3/8")	45(99)	39(86)		15.0	14.6	8.8	5.0	4.8	4.8	3.8
80HD23.7	5(3.7)	3"(80)	22-0.5	22-30	29-1.2	29-72	10(3/8")	-	44(97)		-	-	14.2	8.2	7.8	7.8	6.2
100HD23.7	5(3.7)	4"(100)	13-1.0	13-60	23-1.65	23-99	10(3/8")	-	44(97)		-	-	14.2	8.2	7.8	7.8	6.2

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	Q:m³/min Q:m³/h	H:m								Q:L/sec	H:m							
				0.2 12	0.4 24	0.6 36	0.8 48	1.0 60	1.2 72	1.4 84	2		4	6	8	12	16	20	24	
80HD21.5	2(1.5)	3"(80)	H:m	14.8	11.8	8.4	4.4	-	-	-	H:m	15.8	14.2	12.4	10.6	6.1	-	-	-	
80HD22.2	3(2.2)	3"(80)		19.4	16.0	12.4	8.0	-	-	-		20.6	18.7	16.7	14.6	9.8	-	-	-	
80HD23.7	5(3.7)	3"(80)		26.5	23.8	20.4	16.2	11.2	-	-		27.8	26.0	24.4	22.5	18.0	12.4	-	-	
100HD23.7	5(3.7)	4"(100)		21.4	19.8	17.8	15.6	13.0	9.8	6.8		22.0	21.0	20.0	19.0	16.5	13.6	10.4	6.0	

HD SERIES SUBMERSIBLE DEWATERING PUMPS

80HD25.5 · 100HD25.5 · 150HD25.5 · 100HD27.5 · 150HD27.5

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class H
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Close (80HD25.5:Open)
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS304
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear Plate	HiCrFC(For Open)
	Wear Plate	HicrFC(For Close)
	Cable	VCT or H07RN-F or SOW
Optional	-	



80HD25.5 · 100HD25.5 ·
150HD25.5 · 100HD27.5 · 150HD27.5

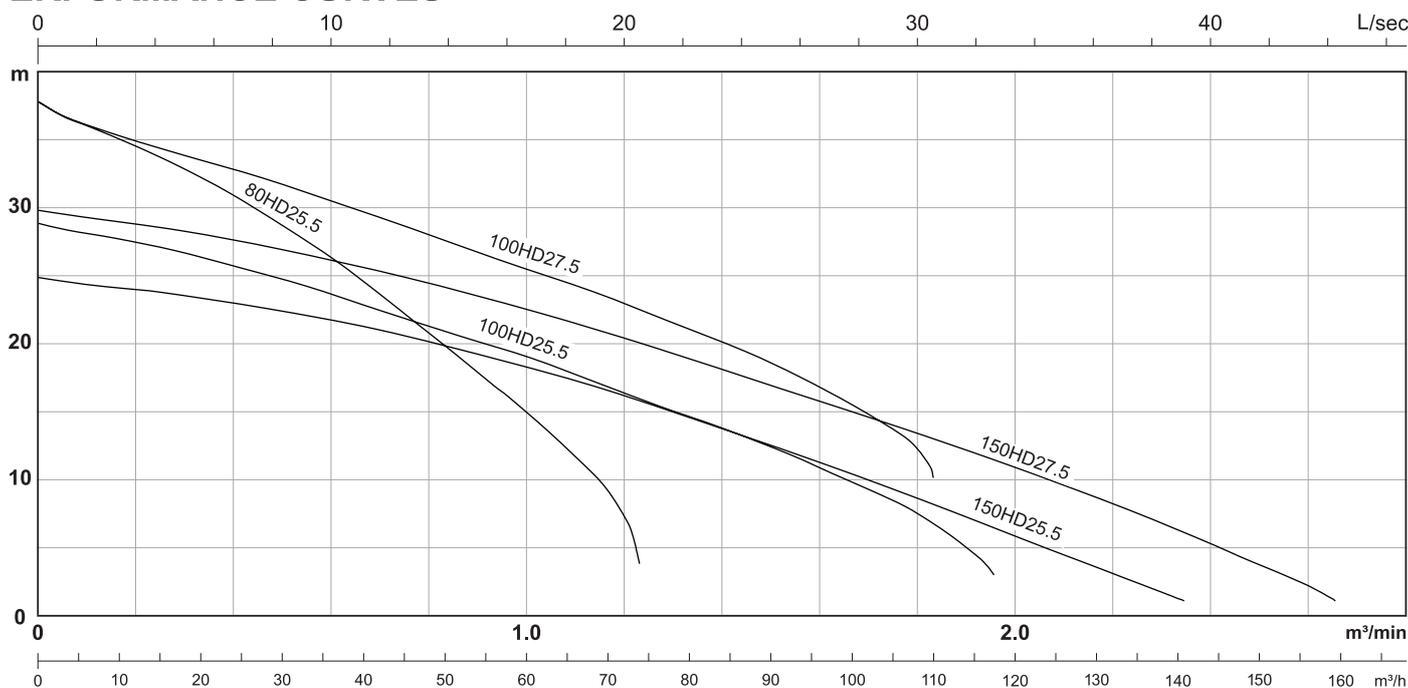


Open Impeller

Close Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	Full load Ampere						
			m-m ³ /min	m-m ³ /h	m-m ³ /min	m-m ³ /h		1Ø-kg(lbs)	3Ø-kg(lbs)		1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
80HD25.5	7.5(5.5)	3"(80)	28-0.5	28-30	38-1.3	38-78	10(3/8")	-	72(159)	-	-	-	21.2	12.0	11.8	11.8	9.3
100HD25.5	7.5(5.5)	4"(100)	19-1.0	19-60	29-2.0	29-120	10(3/8")	-	75(165)	-	-	-	21.2	12.0	11.8	11.8	9.3
100HD27.5	10(7.5)	4"(100)	25.5-1.0	25.5-60	38-1.85	38-111	10(3/8")	-	80(176)	-	-	-	28.6	16.0	15.8	15.8	12.6
150HD25.5	7.5(5.5)	6"(150)	12-1.5	12-90	25-2.4	25-144	10(3/8")	-	78(172)	-	-	-	21.2	12.0	11.8	11.8	9.3
150HD27.5	10(7.5)	6"(150)	17-1.5	17-90	30-2.7	30-162	10(3/8")	-	81(179)	-	-	-	28.6	16.0	15.8	15.8	12.6

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	Q:m ³ /min Q:m ³ /h	H:m											Q:L/sec							
				0.2 12	0.4 24	0.6 36	1.0 60	1.4 84	1.8 108	2.2 132	2.6 156	5	10	15	20	25	30	35	40			
80HD25.5	7.5(5.5)	3"(80)	34.8 31.0	26.4 15.0	-	-	-	-	-	-	-	-	-	33.0	26.4	18.1	6.8	-	-	-	-	
100HD25.5	7.5(5.5)	4"(100)	27.6 25.8	23.8 19.4	14.1 7.4	-	-	-	-	-	-	-	-	26.7	23.8	20.6	16.8	12.6	7.4	-	-	
100HD27.5	10(7.5)	4"(100)	35.0 33.0	30.6 25.4	20.2 12.2	-	-	-	-	-	-	-	-	34.0	30.6	26.8	23.0	18.6	12.2	-	-	
150HD25.5	7.5(5.5)	6"(150)	24.2 23.2	21.9 18.2	13.7 8.6	3.1	-	-	-	-	-	-	-	23.7	21.9	19.4	15.6	12.6	8.6	4.5	-	
150HD27.5	10(7.5)	6"(150)	28.9 27.6	26.1 22.6	18.4 13.6	8.2 2.0	-	-	-	-	-	-	-	28.3	26.1	23.5	20.6	17.2	13.6	9.6	5.2	

HD SERIES SUBMERSIBLE DEWATERING PUMPS

100HD211 · 100HD215 · 150HD211 · 150HD215

SPECIFICATIONS

Item	Description	
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class H
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Close
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS420J2
	M.seal	CA/CE & SiC/SiC
	Casing	FCD500
	Impeller	HiCrFC
	Wear Plate	HiCrFC
	Cable	VCT or H07RN-F or SOW
Optional	-	



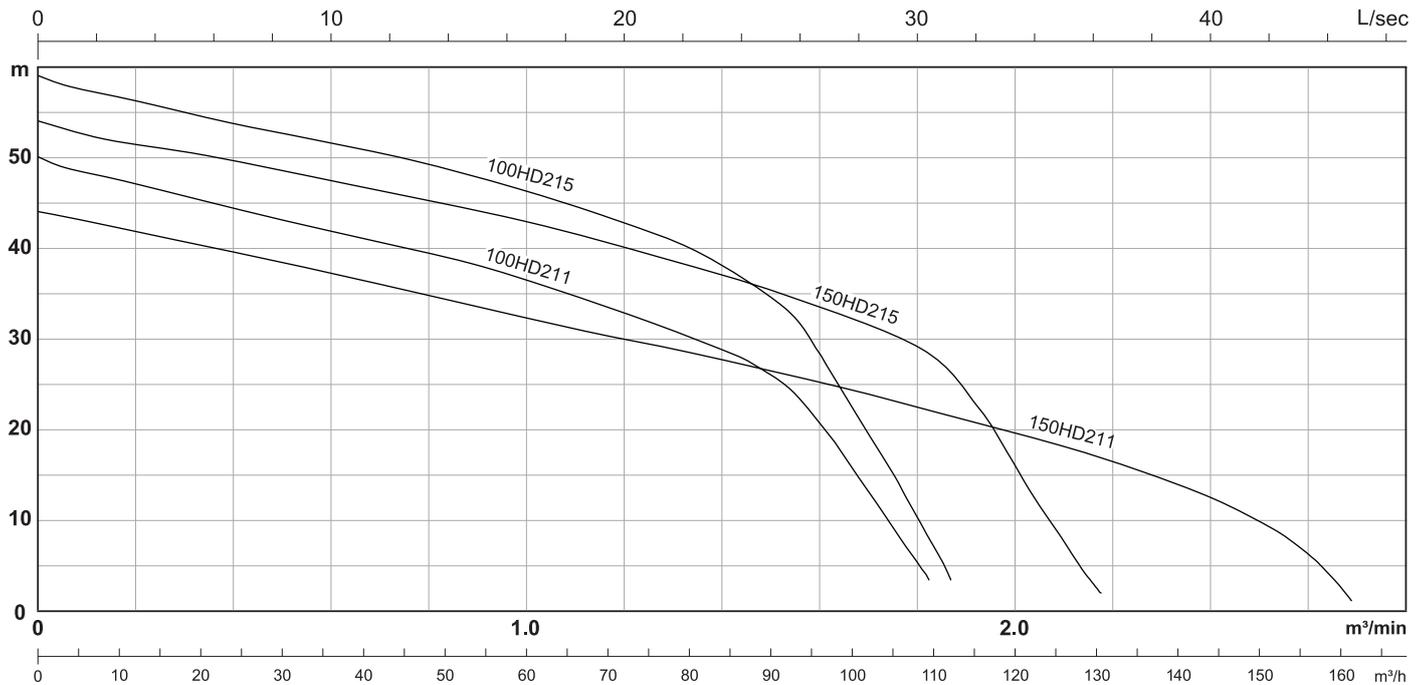
Close Impeller



100HD211 · 100HD215
150HD211 · 150HD215

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase	Full load Ampere						
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lbs)	3Ø-kg(lbs)		Voltage	220V	230V	230V	380V	400V	415V
100HD211	15(11)	4"(100)	36-1.0	36-60	50-1.8	50-108	10(3/8")	-	125(276)	Full load Ampere	-	-	39.6	22.2	21.8	21.8	17.4
100HD215	20(15)	4"(100)	46-1.0	46-60	59-1.9	59-114	10(3/8")	-	134(295)		-	-	52.0	29.2	28.6	28.6	22.8
150HD211	15(11)	6"(150)	26.5-1.5	26.5-90	44-2.7	44-162	10(3/8")	-	125(276)		-	-	39.0	22.2	21.6	21.6	17.3
150HD215	20(15)	6"(150)	35-1.5	35-90	54-2.4	54-144	10(3/8")	-	133(293)		-	-	52.0	29.2	28.6	28.6	22.8

PERFORMANCE CURVES



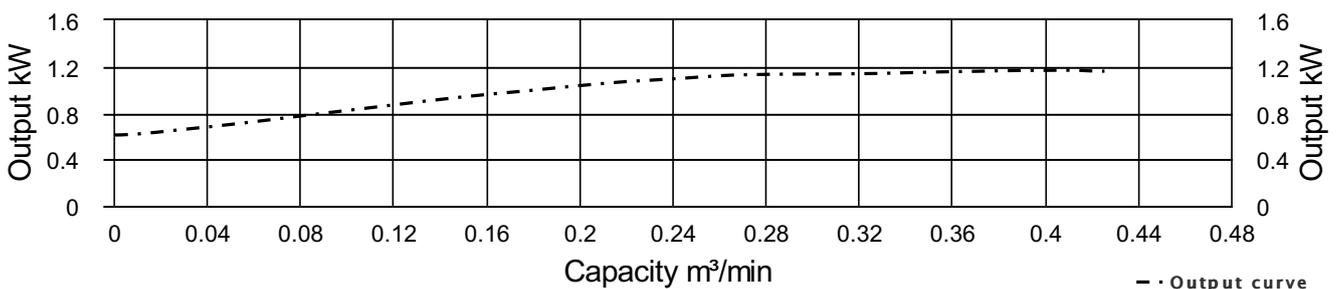
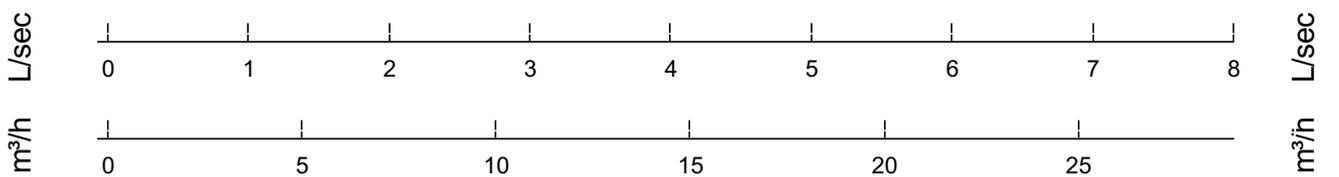
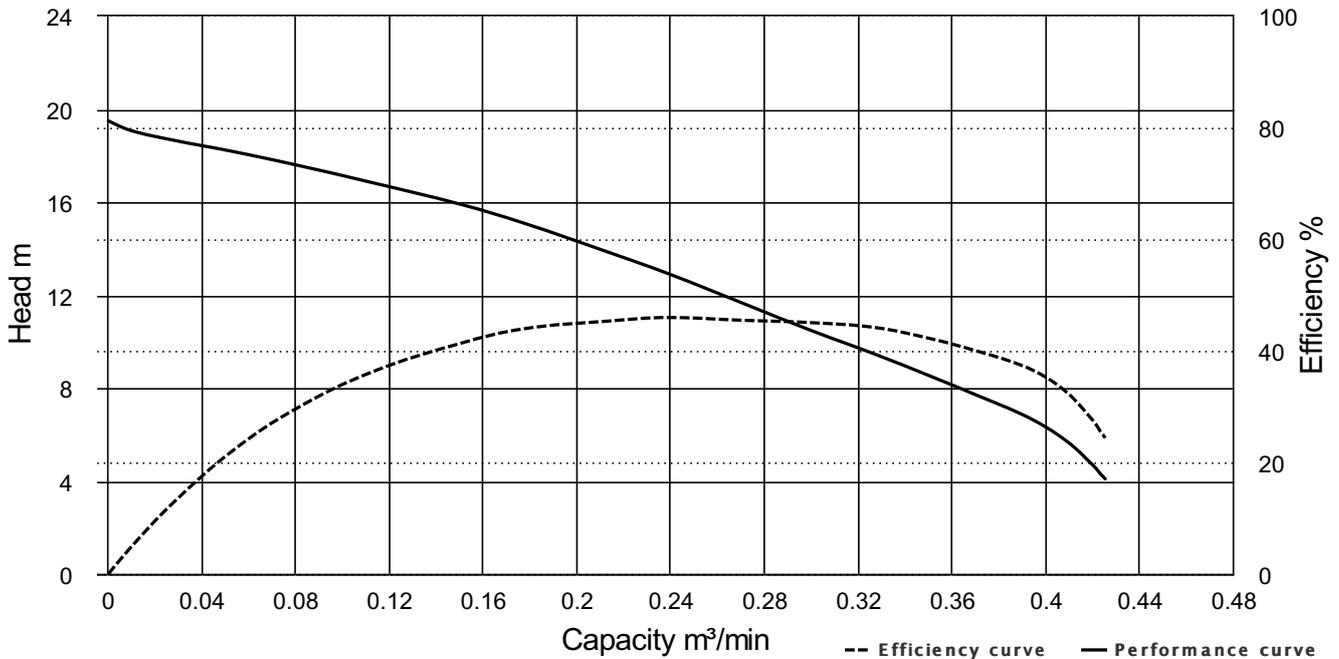
Model	Power HP(kW)	Discharge inch(mm)	Q:m³/min	0.2	0.4	0.6	0.8	1.2	1.6	2.0	2.4	Q:L/sec	5	10	15	20	25	30	35	40
			Q:m³/h	12	24	36	48	72	96	120	144		H:m	46.0	42.0	38.4	33.0	26.0	5.8	-
100HD211	15(11)	4"(100)	H:m	47.2	44.8	42.0	39.4	33.0	20.4	-	-	H:m	46.0	42.0	38.4	33.0	26.0	5.8	-	-
100HD215	20(15)	4"(100)		56.4	53.9	51.8	49.2	43.2	28.6	-	-		55.0	51.8	48.0	43.2	34.1	10.4	-	-
150HD211	15(11)	6"(150)		42.0	39.4	37.2	34.8	30.0	25.0	19.8	12.8		41.0	37.2	33.4	30.0	26.6	22.4	18.0	12.8
150HD215	20(15)	6"(150)		51.4	49.6	47.4	45.2	40.2	33.4	16.2	-		51.0	47.6	44.0	40.2	35.6	29.2	8.0	-



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PUMP PERFORMANCE CURVES

Model	50HD21.1				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	2" / 50 mm						
Power	1.5 HP / 1.1 kW						
Std. Head	13.5 m						
Std. Capacity	0.2 m ³ /min						
Volt	110 V	220 V	230 V	240 V			
Rated Current	16.8 A	8.4 A	8.2 A	8 A			
Pole / rpm	2 P / 2840 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



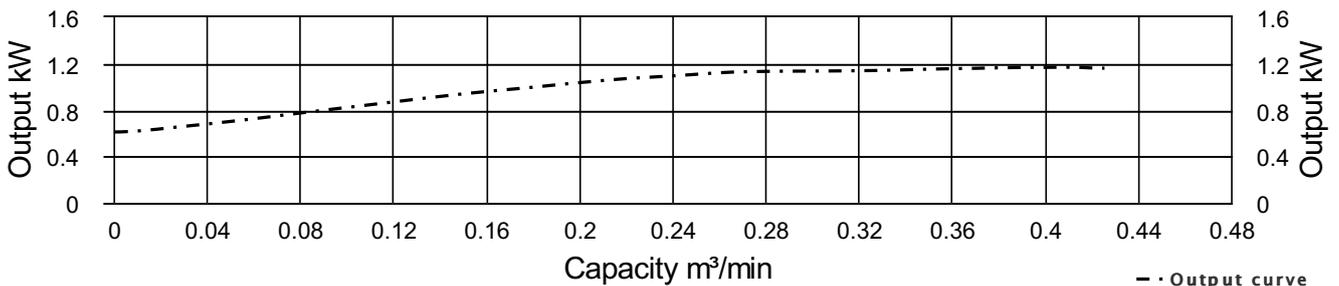
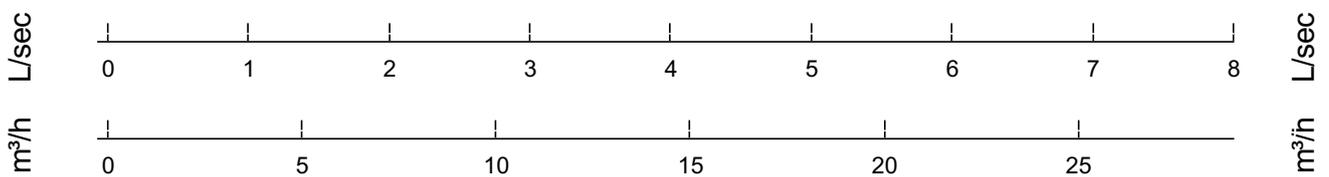
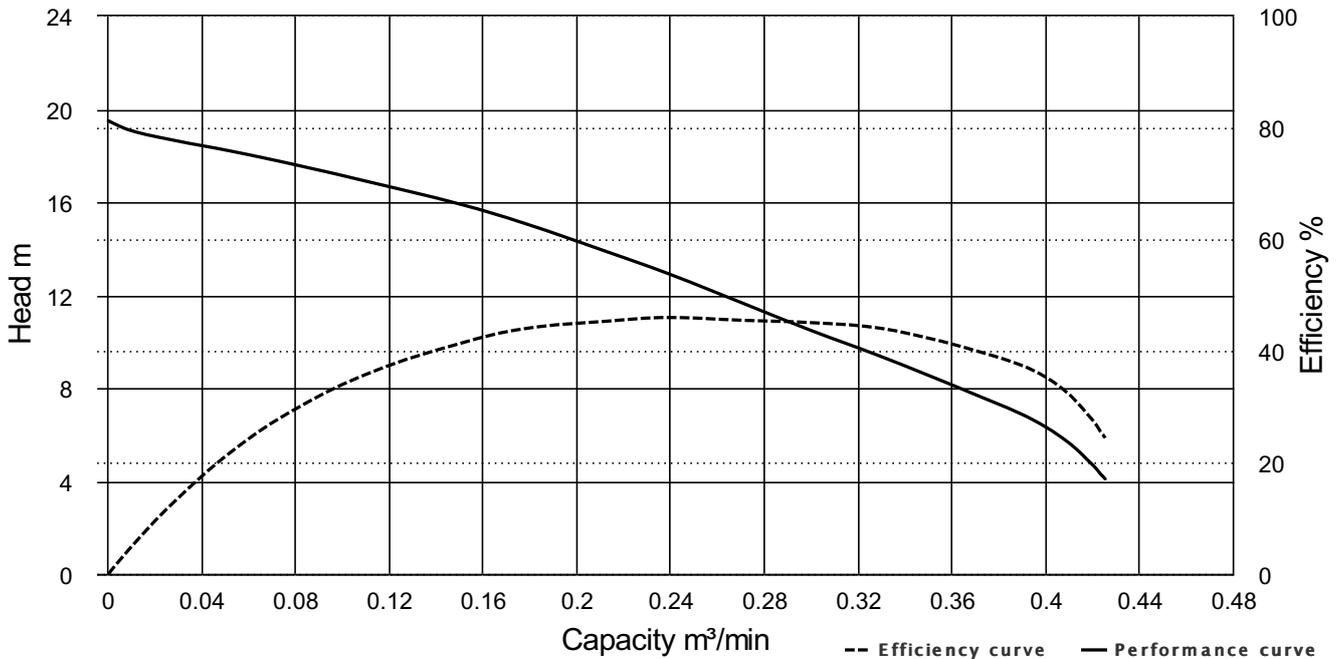
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PUMP PERFORMANCE CURVES

Model	50HD21.1					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	2" / 50 mm						
Power	1.5 HP / 1.1 kW						
Std. Head	13.5 m						
Std. Capacity	0.2 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	5.1 A	2.9 A	2.8 A	2.8 A	2.2 A		
Pole / rpm	2 P / 2840 rpm						
Start Method	DOL						
Insulation Class	F						



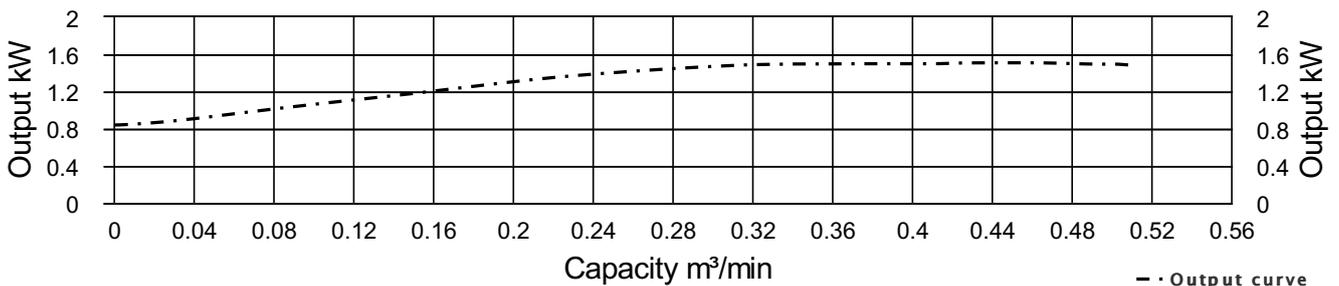
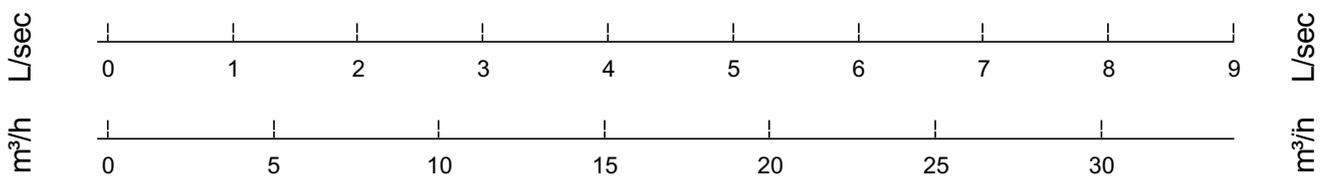
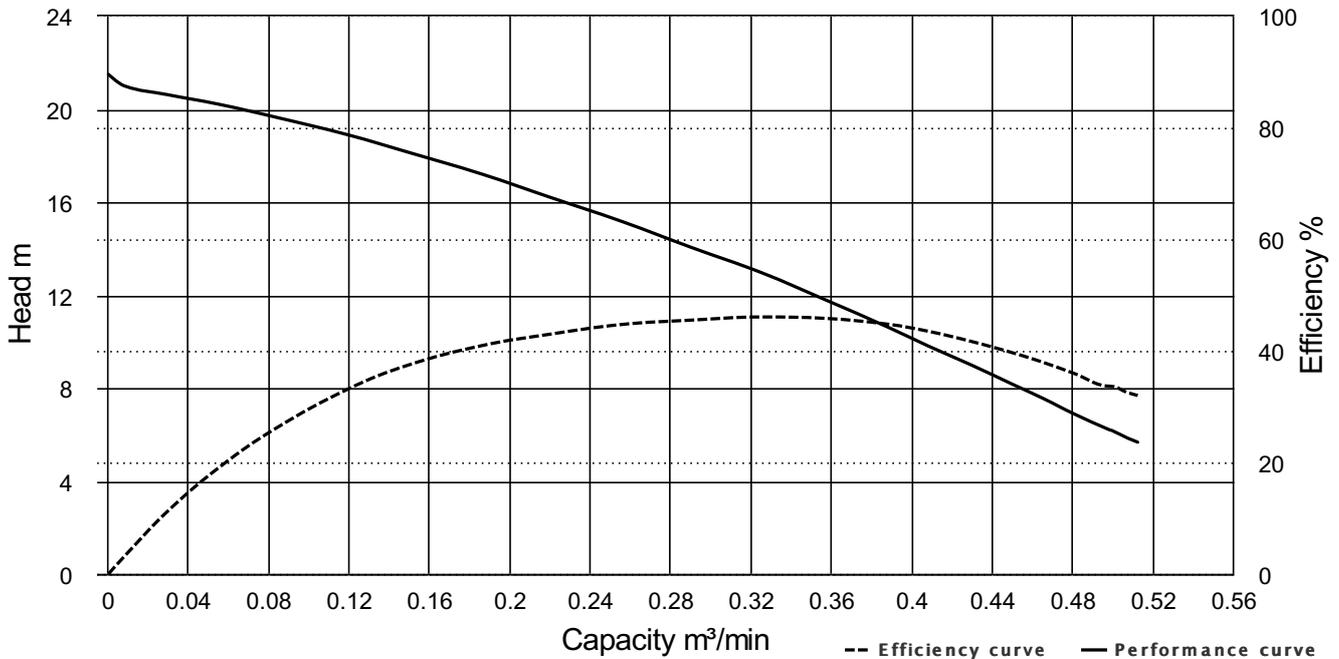
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PUMP PERFORMANCE CURVES

Model	50HD21.5				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	2" / 50 mm						
Power	2 HP / 1.5 kW						
Std. Head	15 m						
Std. Capacity	0.25 m ³ /min						
Volt	220 V	230 V	240 V				
Rated Current	10.2 A	10 A	9.8 A				
Pole / rpm	2 P / 2800 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



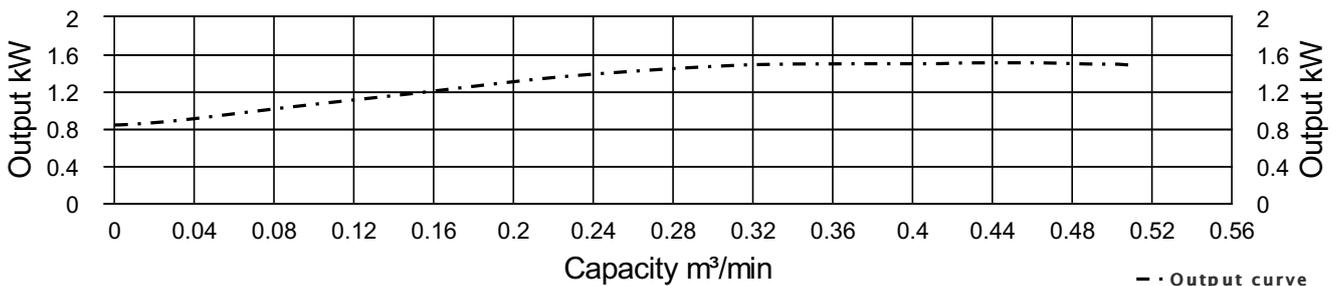
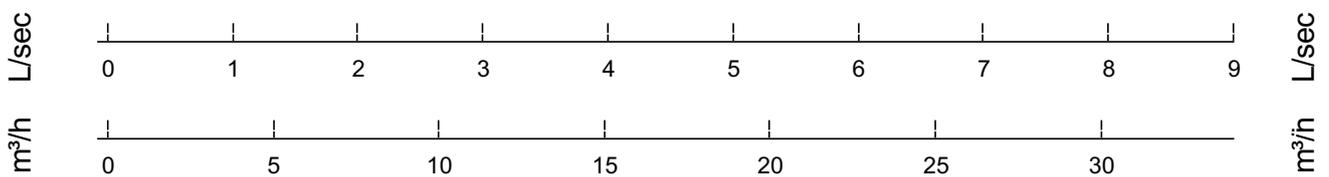
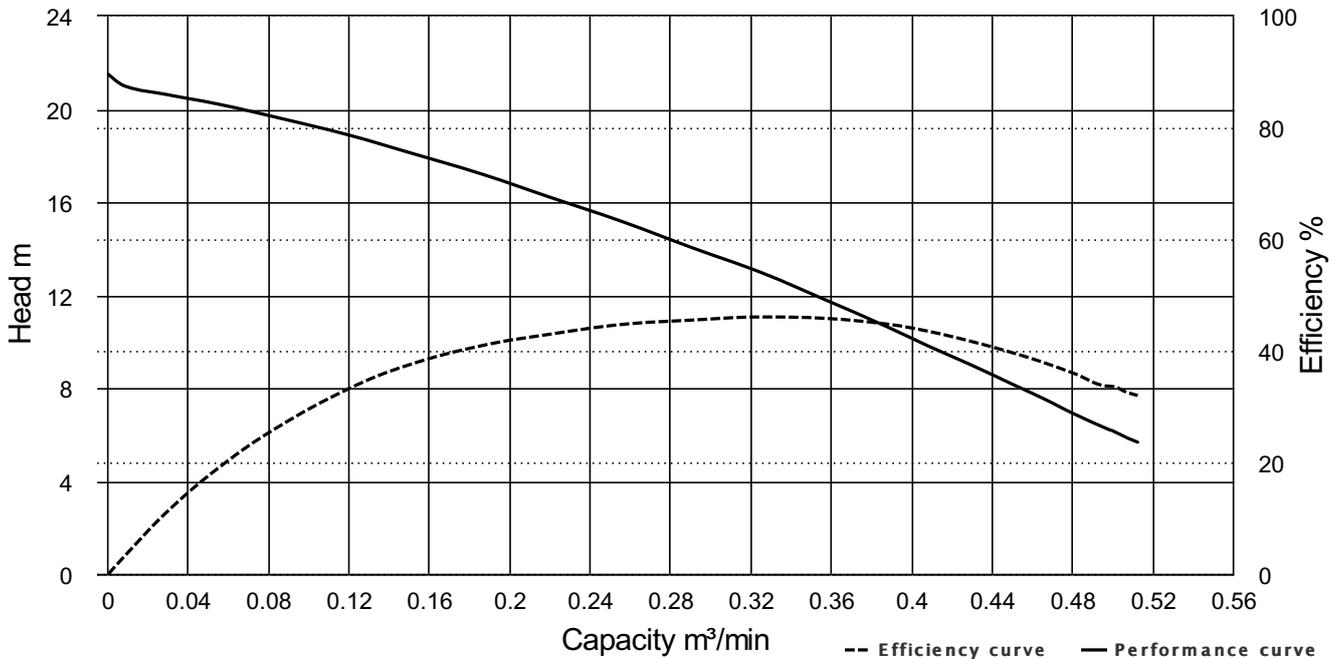
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PUMP PERFORMANCE CURVES

Model	50HD21.5					Ver NO.	BA0407	
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION		
Discharge	2" / 50 mm							
Power	2 HP / 1.5 kW							
Std. Head	15 m							
Std. Capacity	0.25 m ³ /min							
Volt	230 V	380 V	400 V	415 V	525 V			
Rated Current	6.2 A	3.6 A	3.4 A	3.4 A	2.7 A			
Pole / rpm	2 P / 2800 rpm							
Start Method	DOL							
Insulation Class	F							



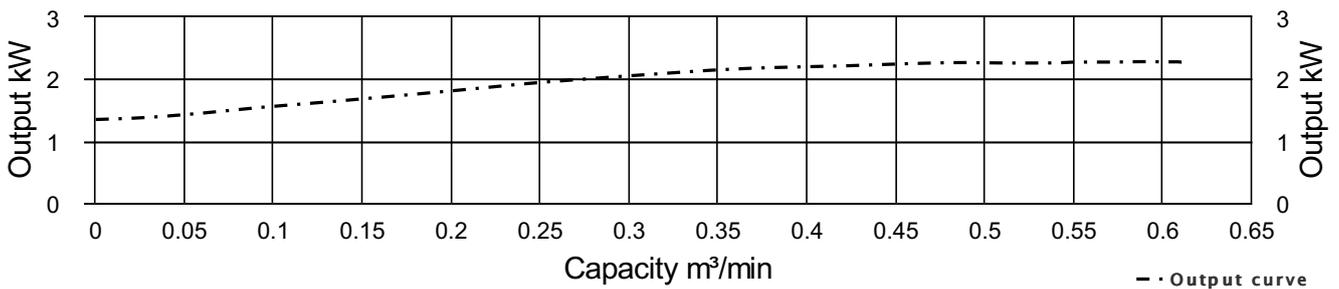
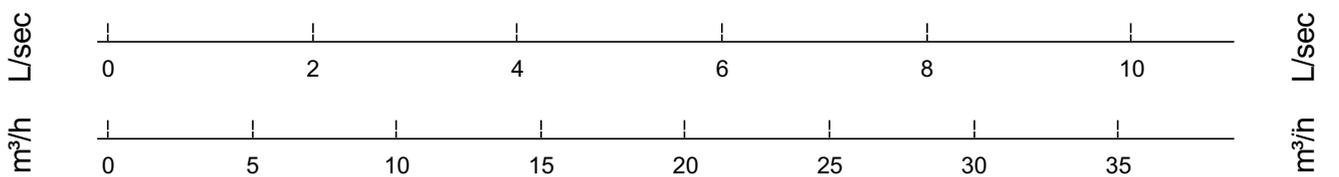
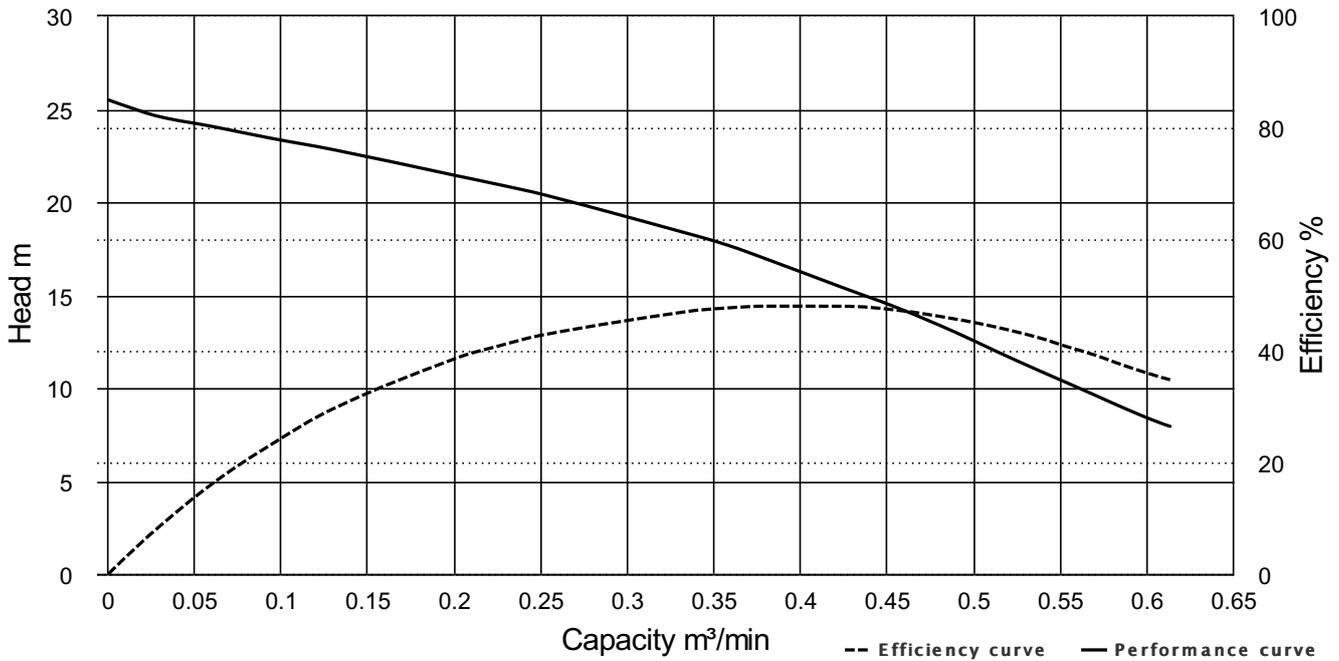
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PUMP PERFORMANCE CURVES

Model	50HD22.2				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	2" / 50 mm						
Power	3 HP / 2.2 kW						
Std. Head	19 m						
Std. Capacity	0.3 m ³ /min						
Volt	220 V	230 V	240 V				
Rated Current	15 A	14.6 A	14.4 A				
Pole / rpm	2 P / 2820 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



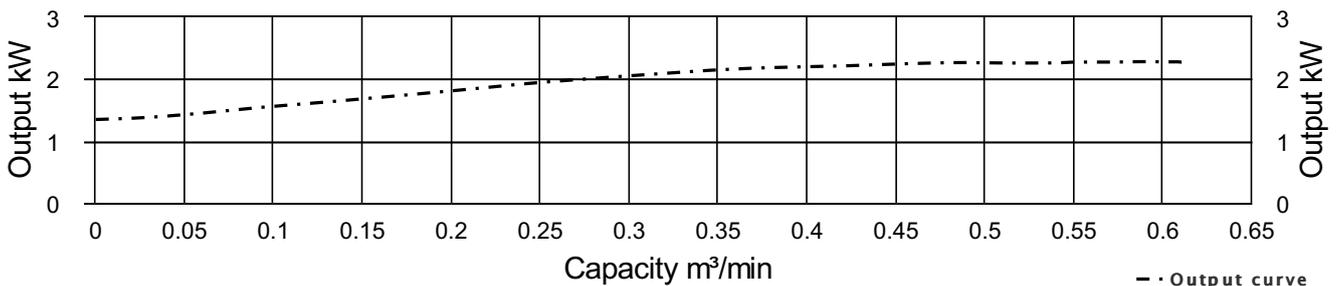
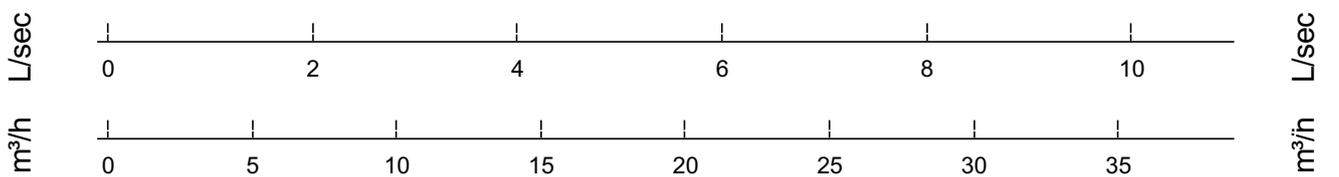
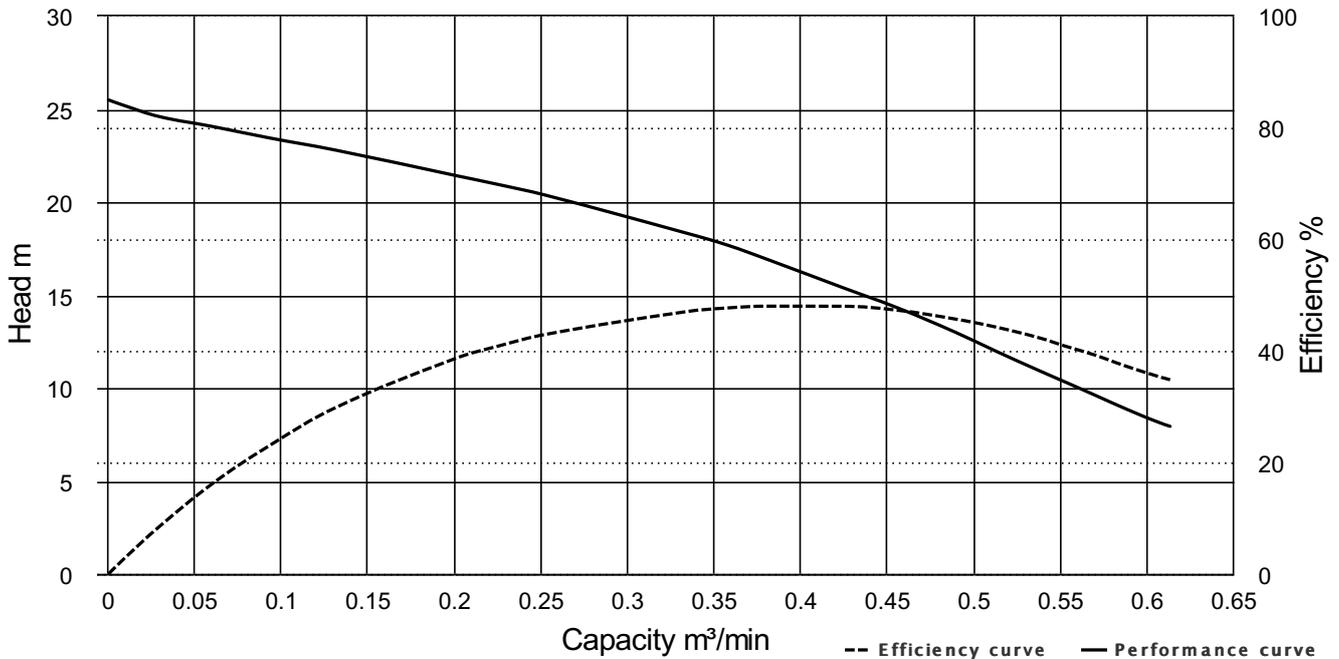
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PUMP PERFORMANCE CURVES

Model	50HD22.2					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	2" / 50 mm						
Power	3 HP / 2.2 kW						
Std. Head	19 m						
Std. Capacity	0.3 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	8.8 A	5 A	4.8 A	4.8 A	3.8 A		
Pole / rpm	2 P / 2820 rpm						
Start Method	DOL						
Insulation Class	F						



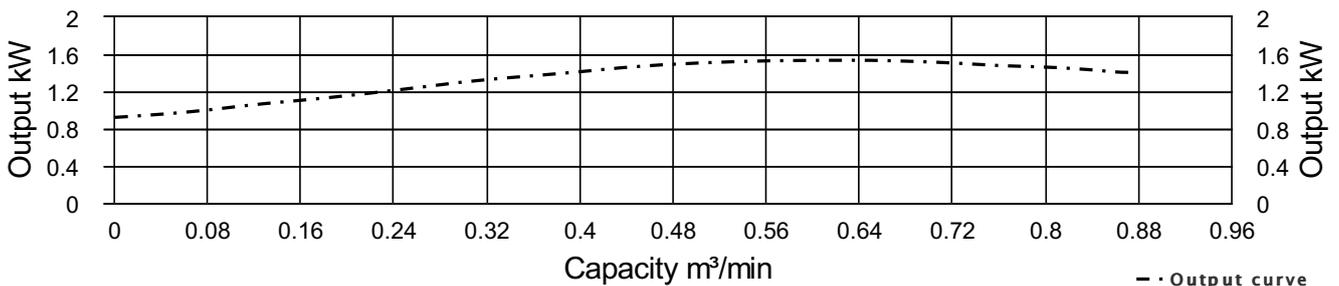
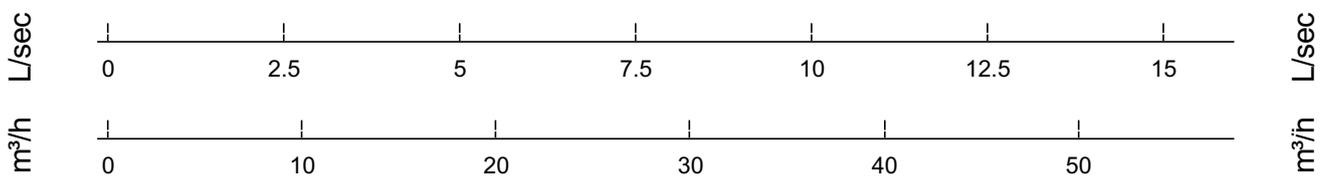
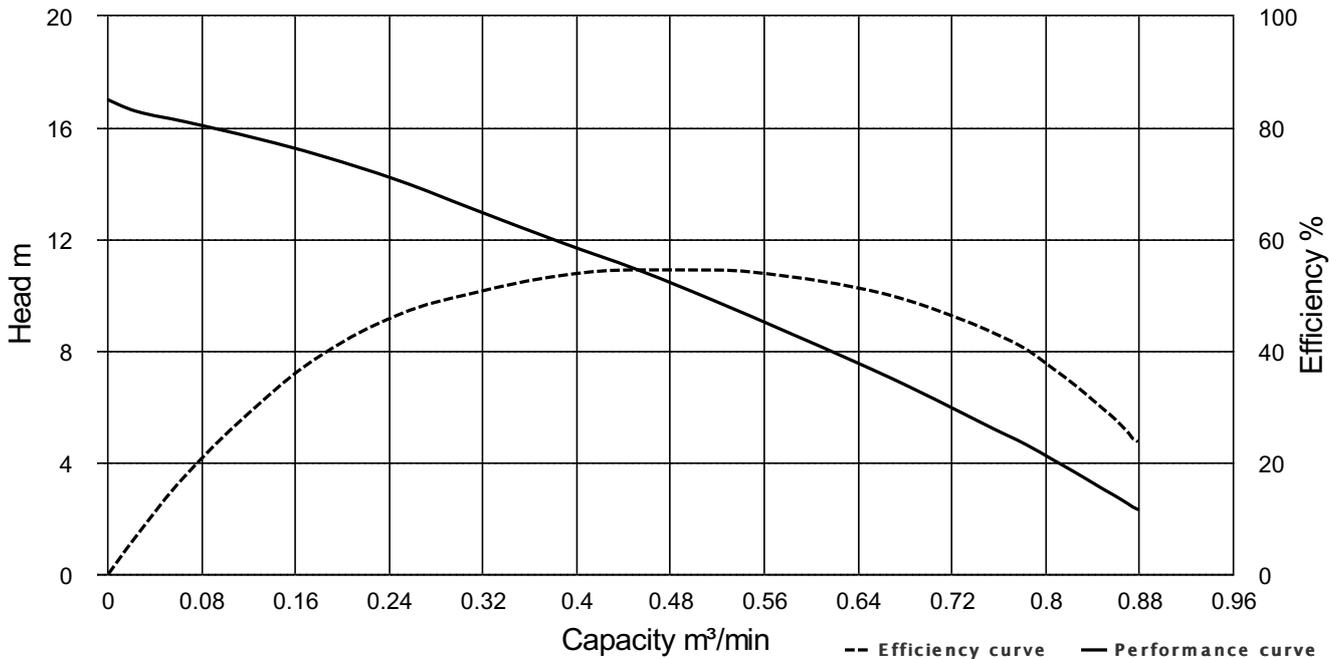
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HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD21.5				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	3" / 80 mm						
Power	2 HP / 1.5 kW						
Std. Head	10 m						
Std. Capacity	0.5 m ³ /min						
Volt	220 V	230 V	240 V				
Rated Current	10.4 A	10 A	9.8 A				
Pole / rpm	2 P / 2800 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



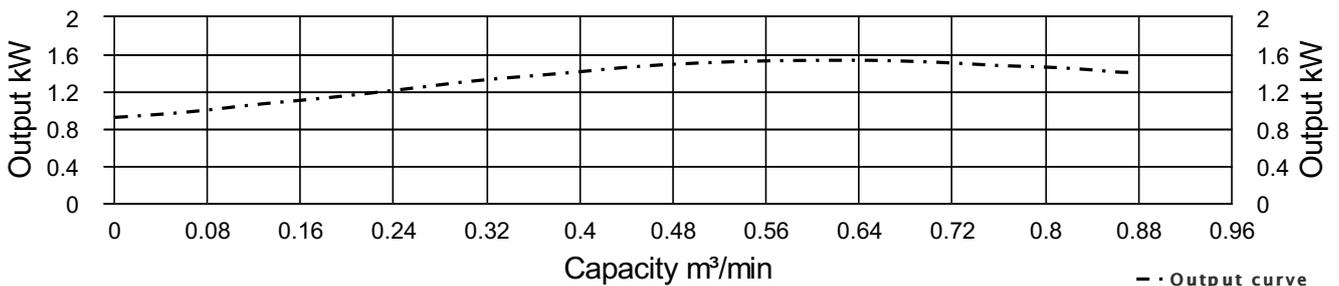
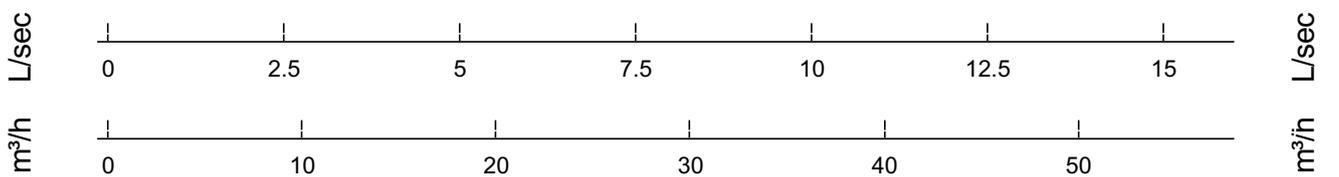
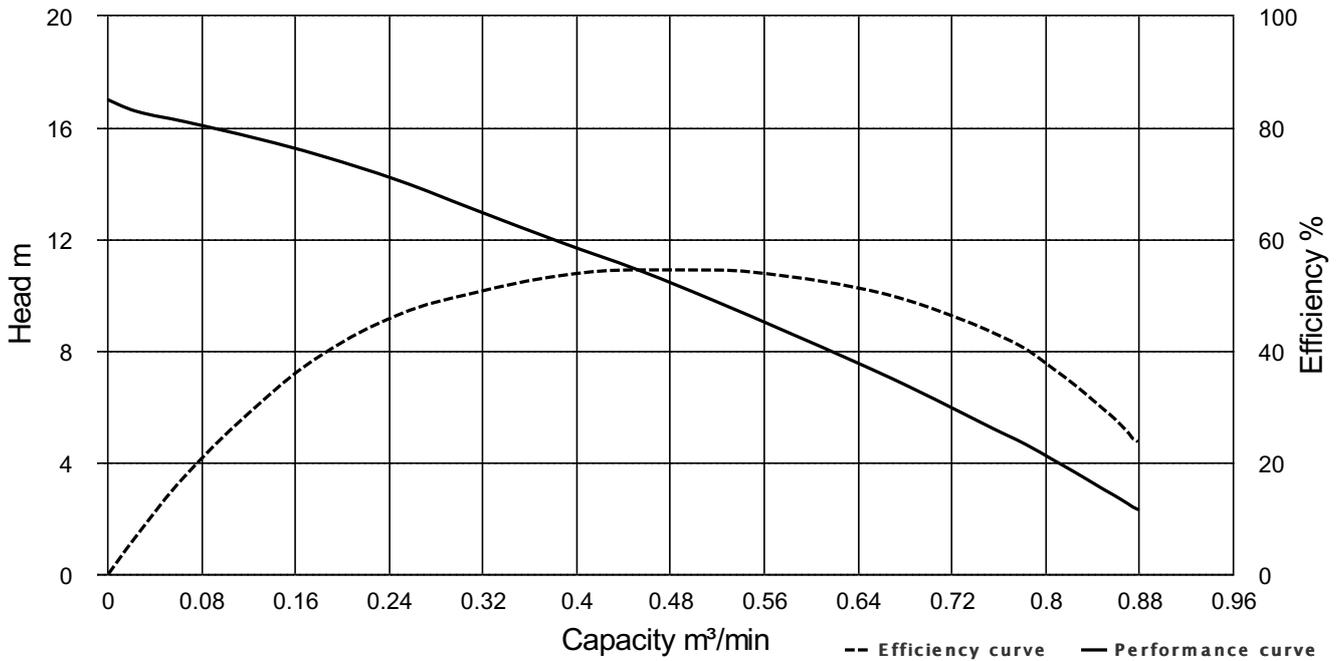
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HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD21.5					Ver NO.	BA0407	
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION		
Discharge	3" / 80 mm							
Power	2 HP / 1.5 kW							
Std. Head	10 m							
Std. Capacity	0.5 m ³ /min							
Volt	230 V	380 V	400 V	415 V	525 V			
Rated Current	6.2 A	3.6 A	3.4 A	3.4 A	2.7 A			
Pole / rpm	2 P / 2800 rpm							
Start Method	DOL							
Insulation Class	F							



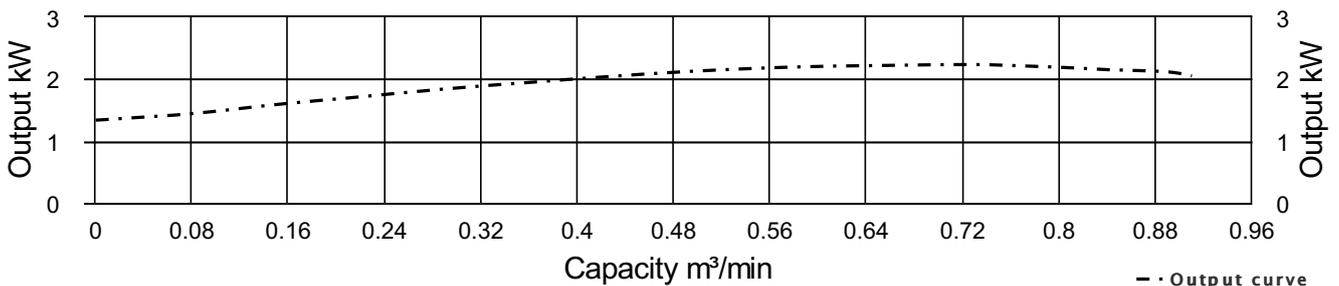
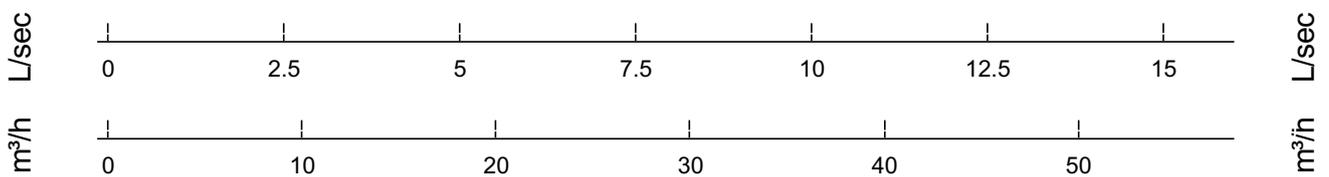
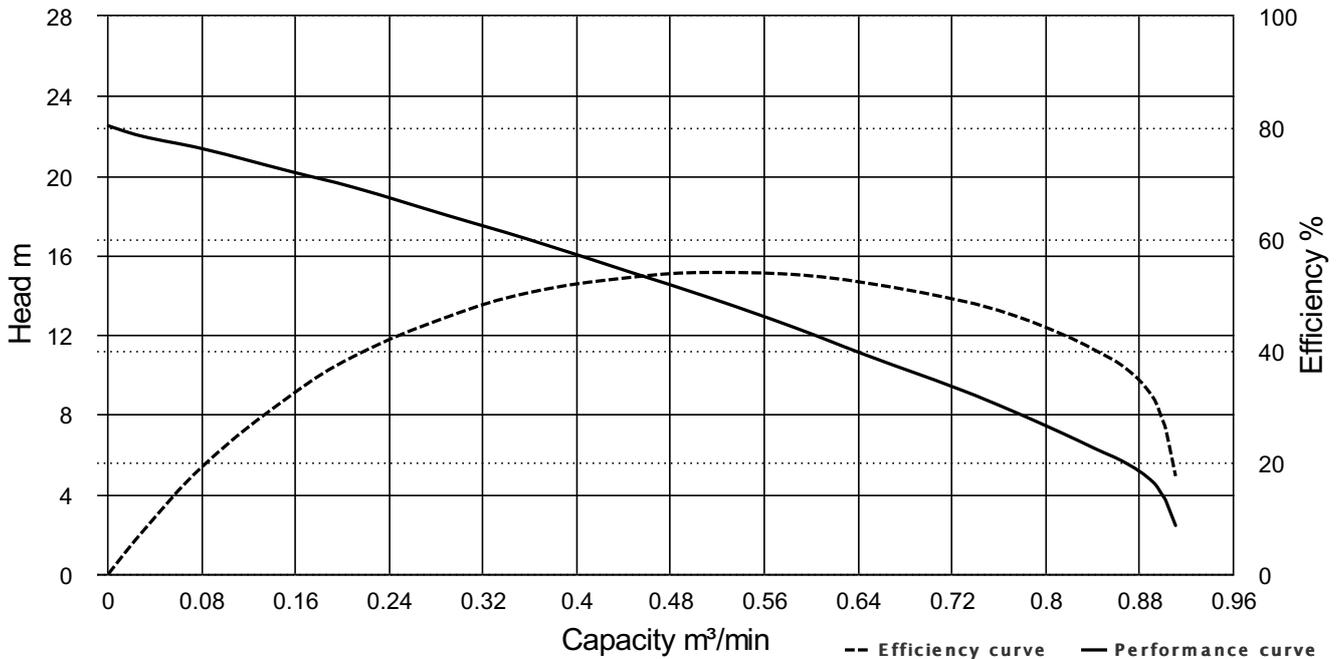
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD22.2				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	3" / 80 mm						
Power	3 HP / 2.2 kW						
Std. Head	14 m						
Std. Capacity	0.5 m ³ /min						
Volt	220 V	230 V	240 V				
Rated Current	15 A	14.6 A	14.6 A				
Pole / rpm	2 P / 2820 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



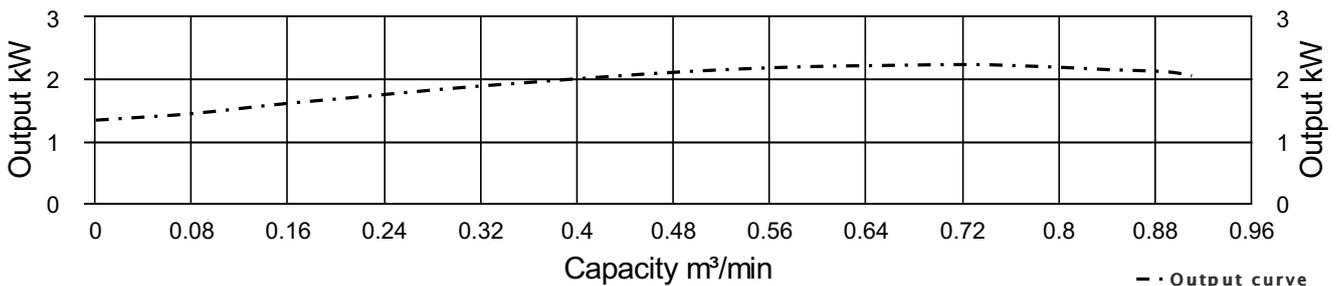
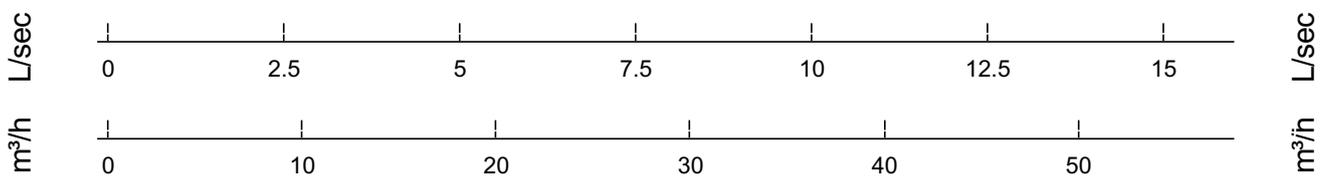
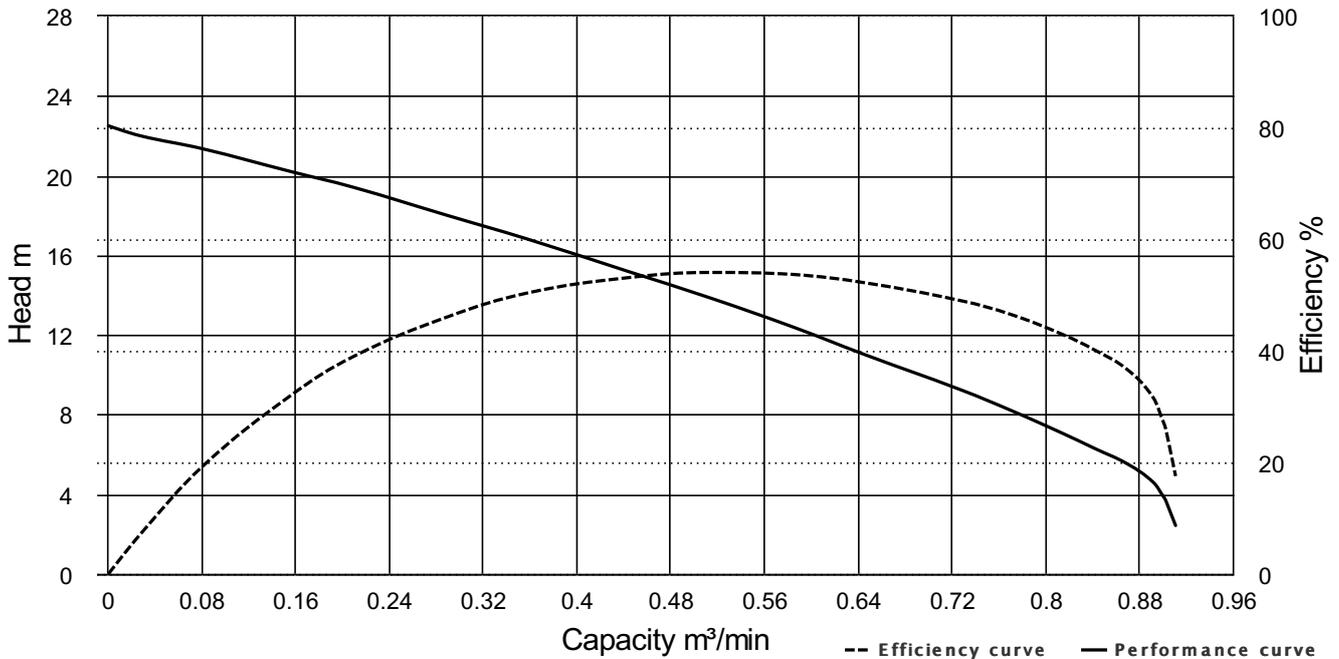
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD22.2					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	3" / 80 mm						
Power	3 HP / 2.2 kW						
Std. Head	14 m						
Std. Capacity	0.5 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	8.8 A	5 A	4.8 A	4.8 A	3.8 A		
Pole / rpm	2 P / 2820 rpm						
Start Method	DOL						
Insulation Class	F						



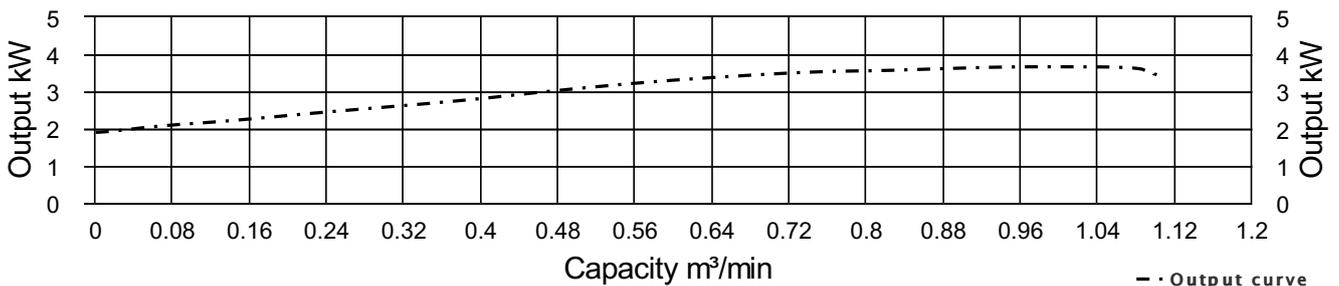
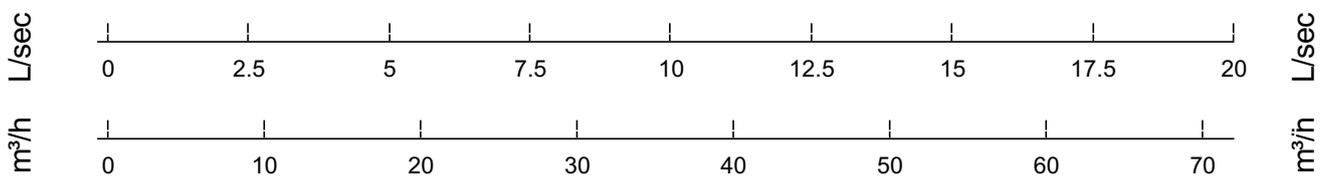
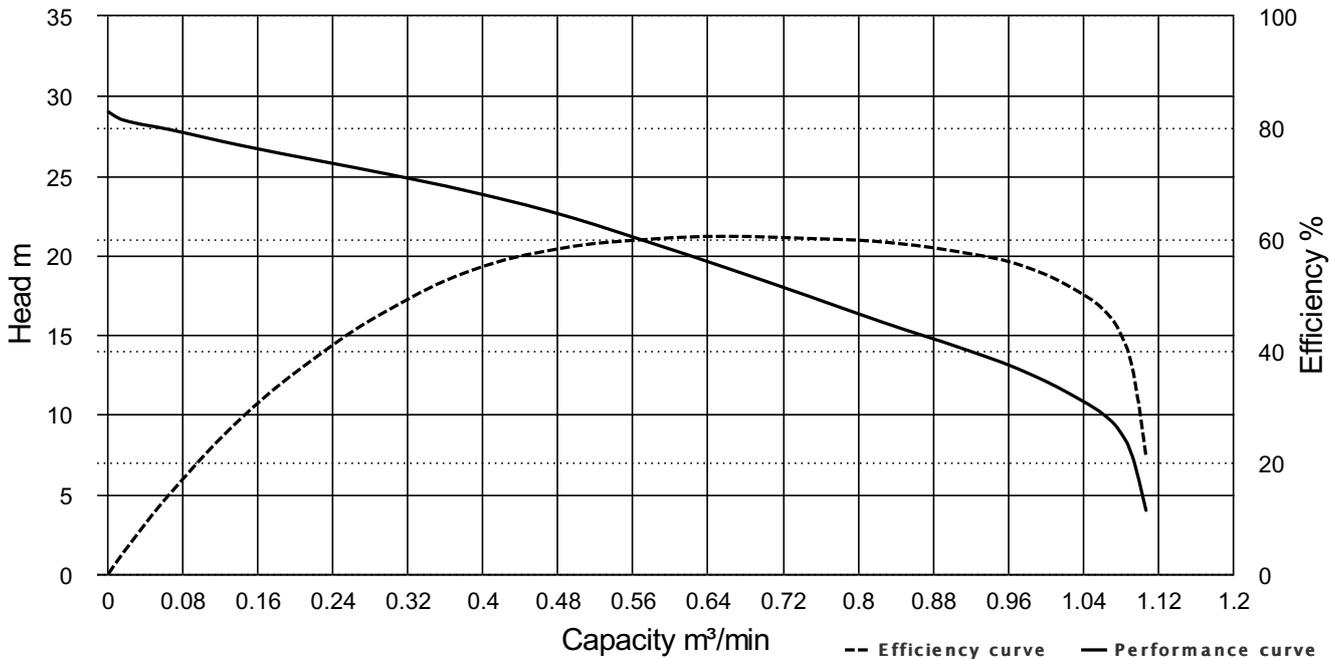
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD23.7					Ver NO.	BA0407	
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION		
Discharge	3" / 80 mm							
Power	5 HP / 3.7 kW							
Std. Head	22 m							
Std. Capacity	0.5 m ³ /min							
Volt	230 V	380 V	400 V	415 V	525 V			
Rated Current	14.2 A	8.2 A	7.8 A	7.8 A	6.2 A			
Pole / rpm	2 P / 2800 rpm							
Start Method	DOL							
Insulation Class	F							



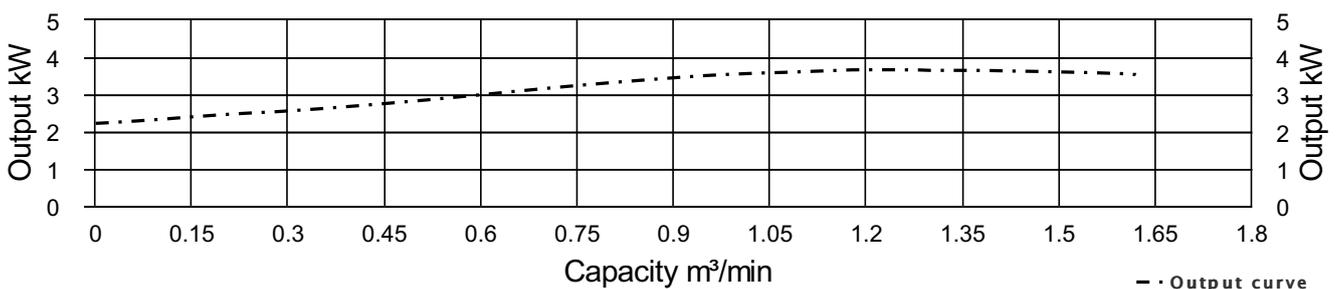
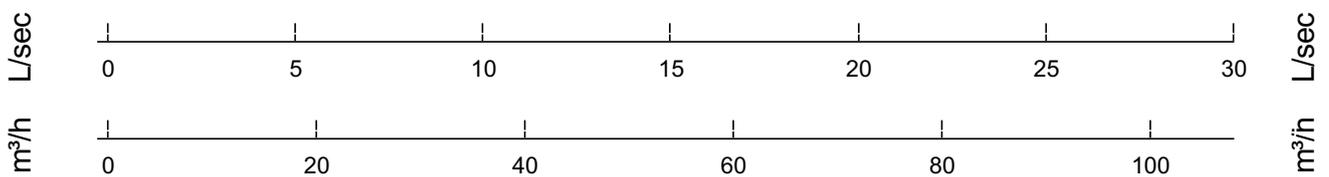
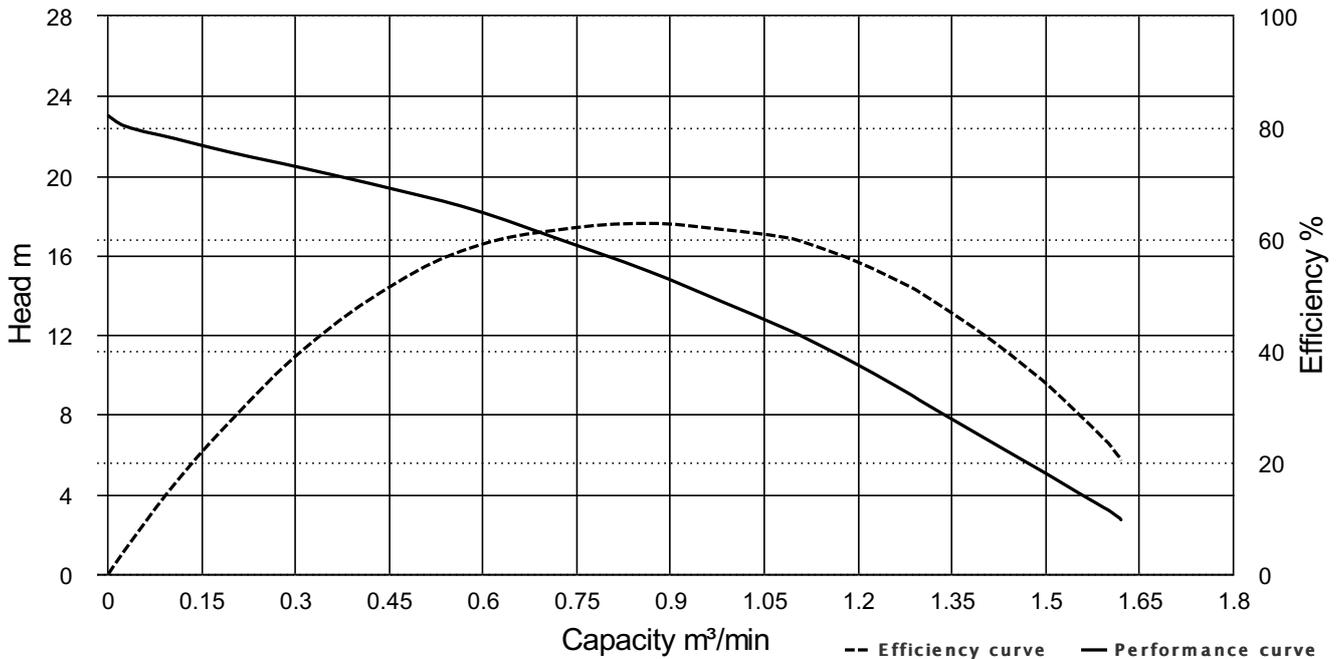
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100HD23.7					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	4" / 100 mm						
Power	5 HP / 3.7 kW						
Std. Head	13 m						
Std. Capacity	1 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	14.2 A	8.2 A	7.8 A	7.8 A	6.2 A		
Pole / rpm	2 P / 2800 rpm						
Start Method	DOL						
Insulation Class	F						



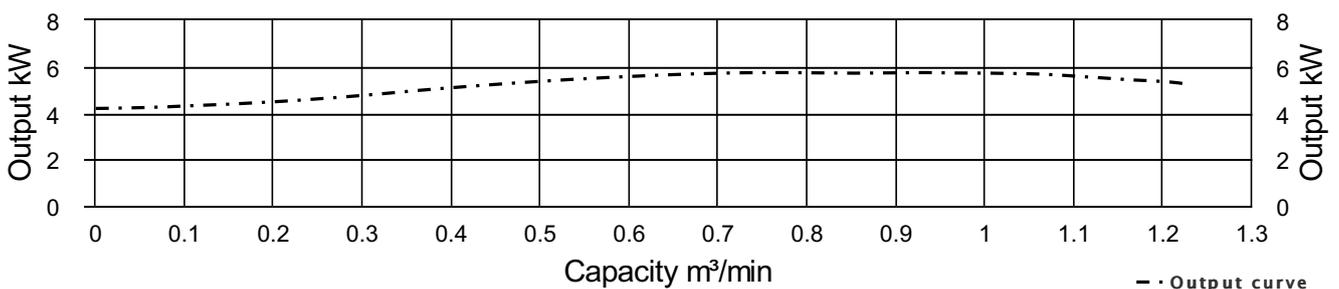
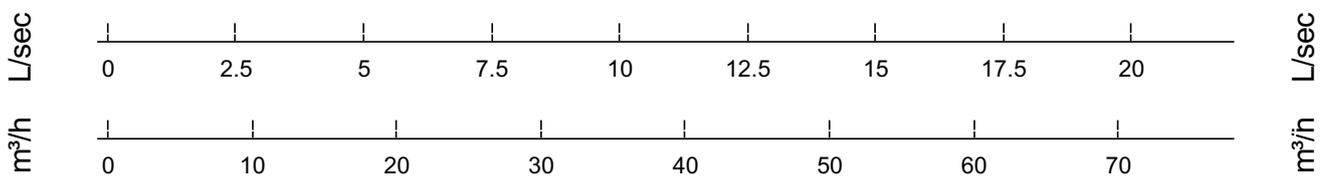
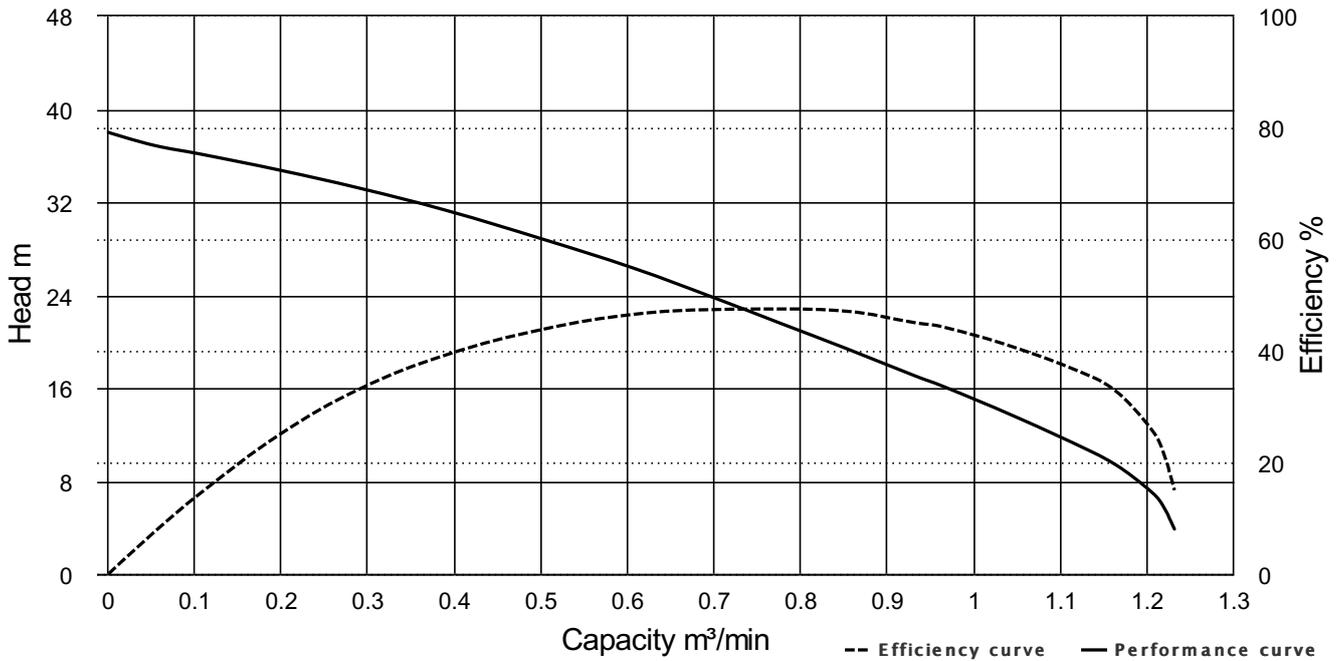
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	80HD25.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	3" / 80 mm						
Power	7.5 HP / 5.5 kW						
Std. Head	28 m						
Std. Capacity	0.5 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	21.2 A	12 A	11.8 A	11.8 A	9.3 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	H						



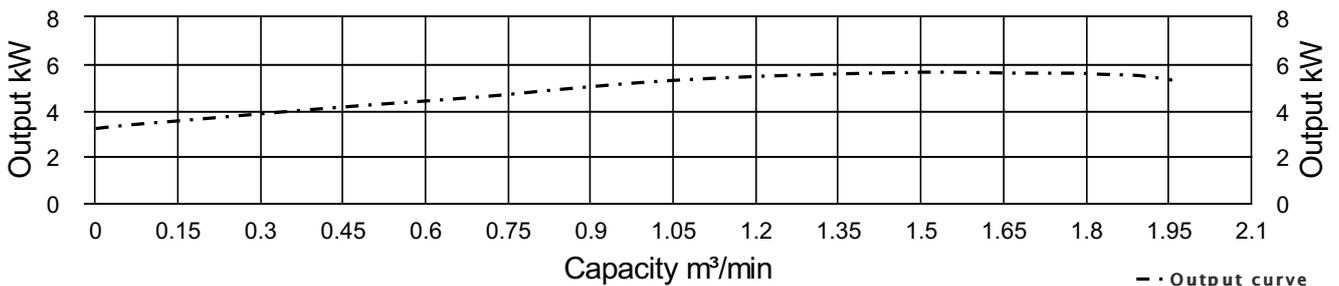
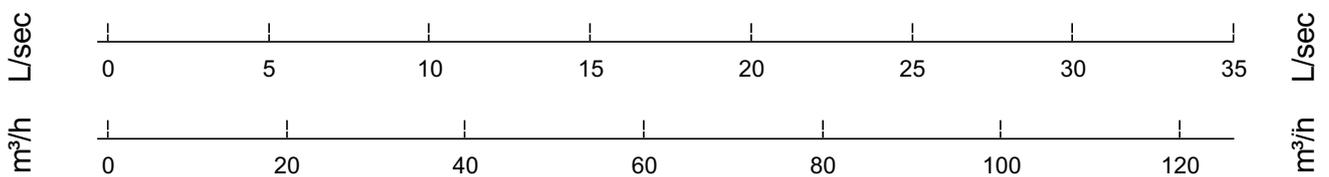
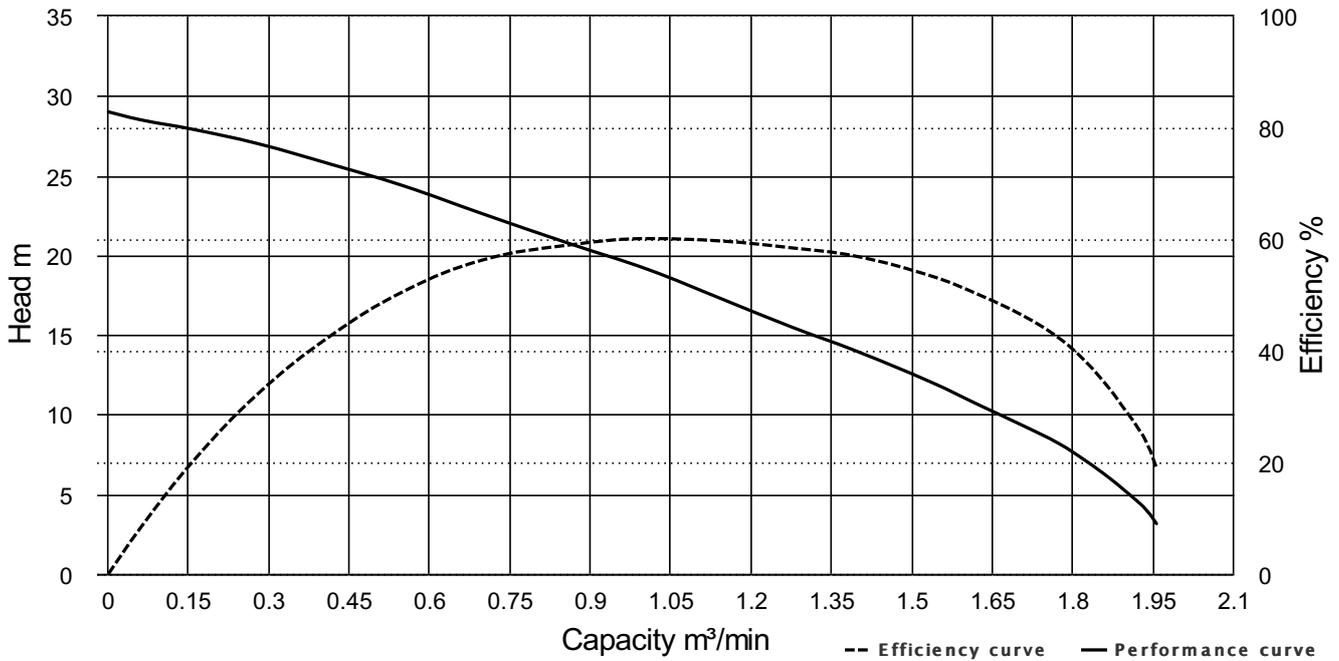
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100HD25.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	4" / 100 mm						
Power	7.5 HP / 5.5 kW						
Std. Head	19 m						
Std. Capacity	1 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	21.2 A	12 A	11.8 A	11.8 A	9.3 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	H						



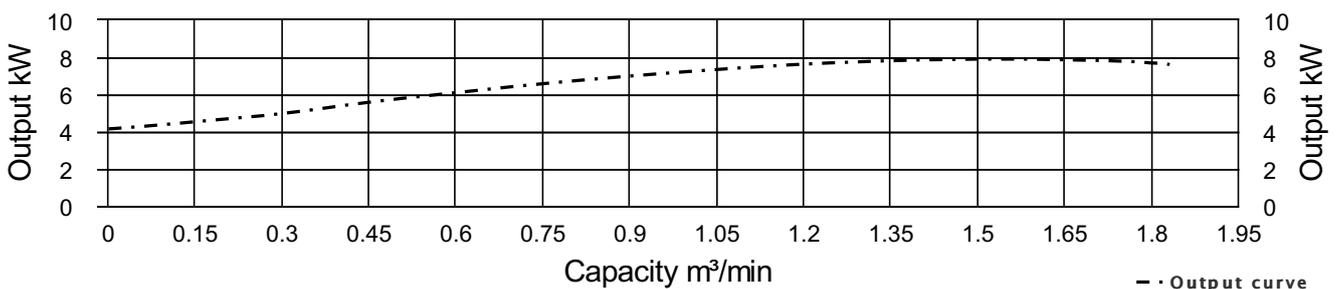
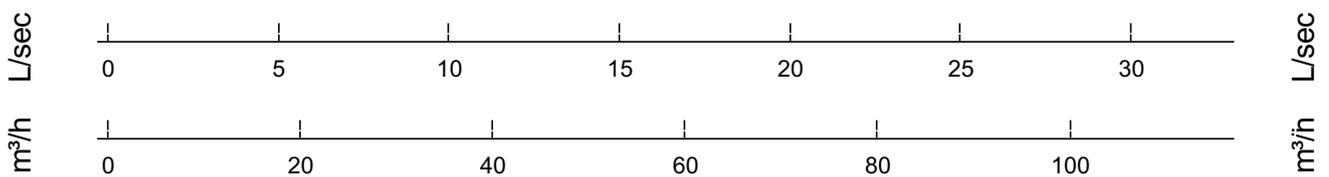
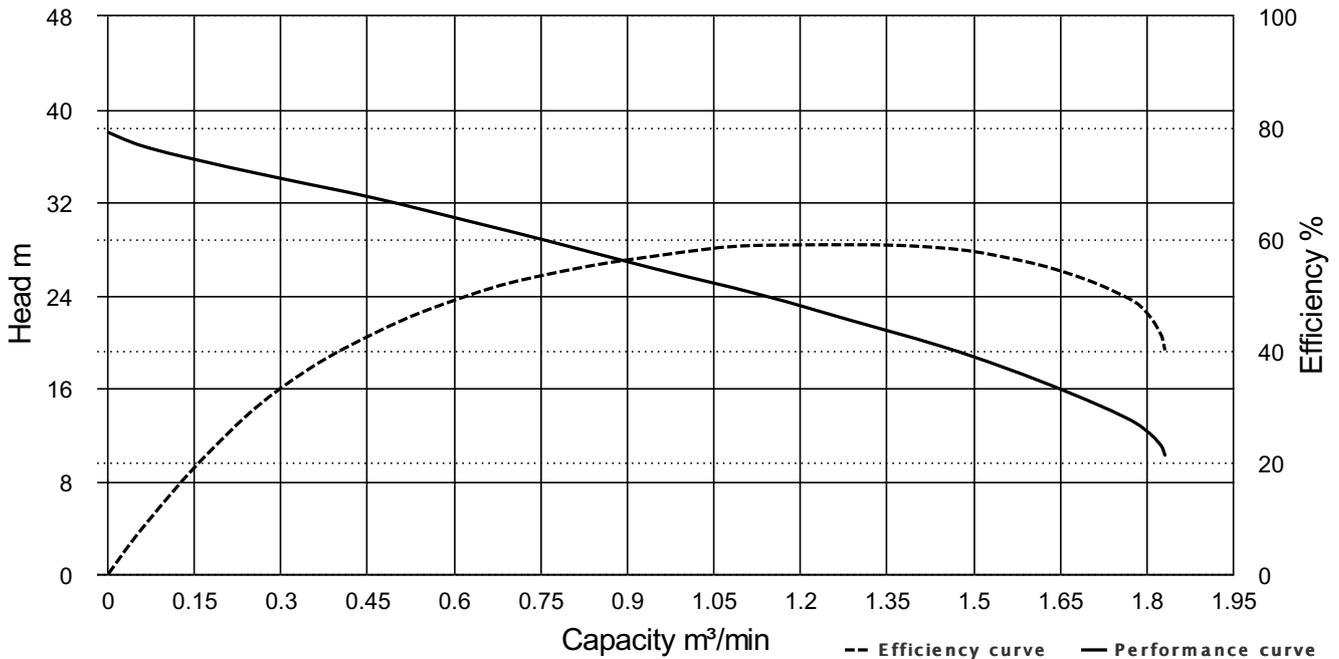
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100HD27.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	4" / 100 mm						
Power	10 HP / 7.5 kW						
Std. Head	25 m						
Std. Capacity	1 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	28.6 A	16 A	15.8 A	15.8 A	12.6 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	H						



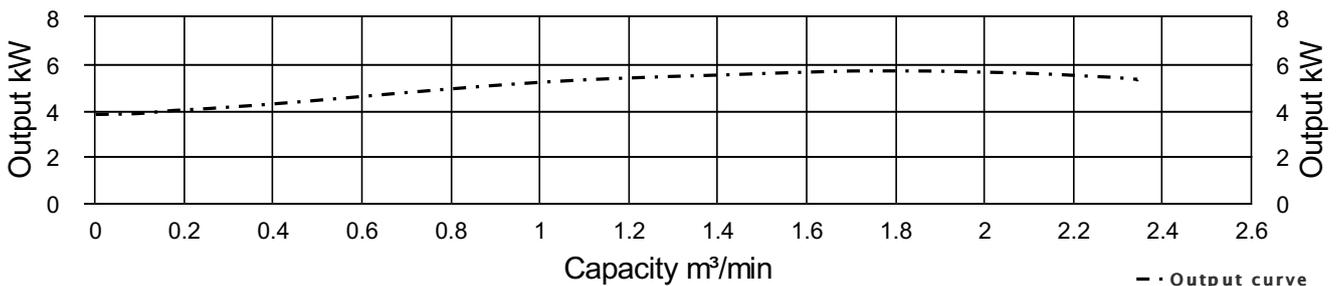
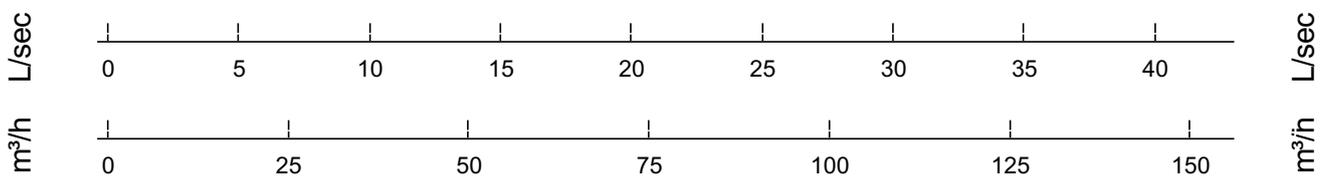
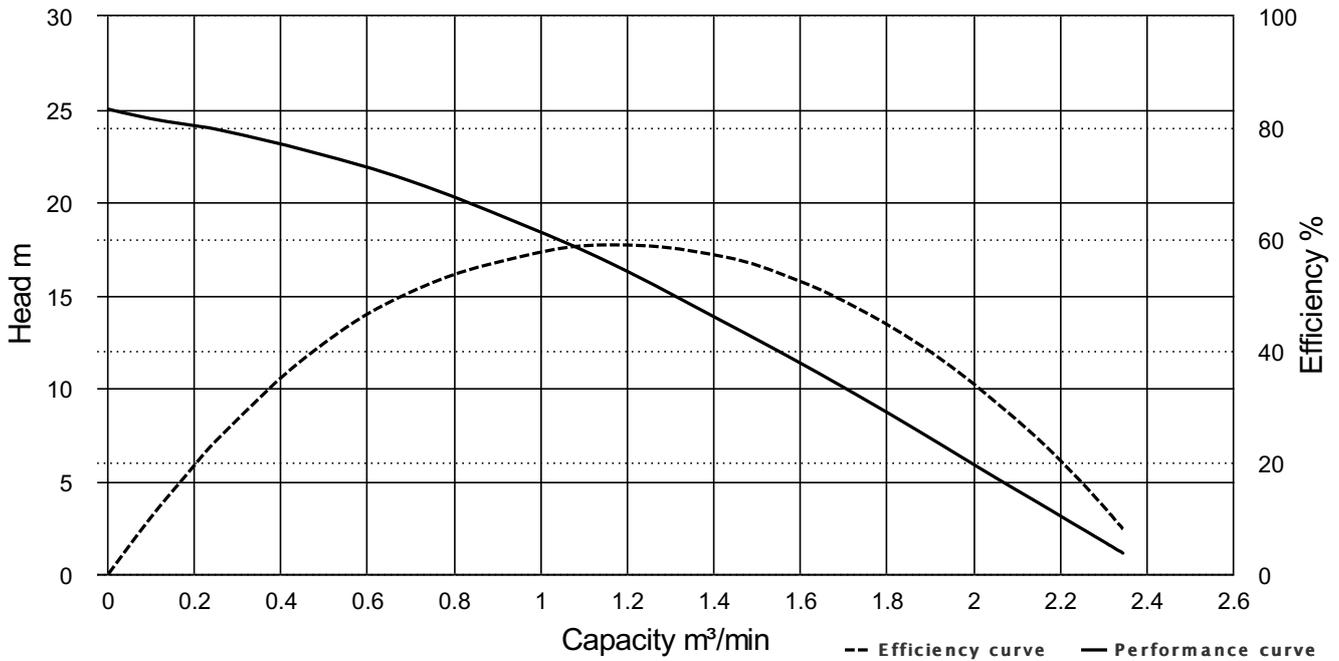
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	150HD25.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	6" / 150 mm						
Power	7.5 HP / 5.5 kW						
Std. Head	12 m						
Std. Capacity	1.5 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	21.2 A	12 A	11.8 A	11.8 A	9.3 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	H						



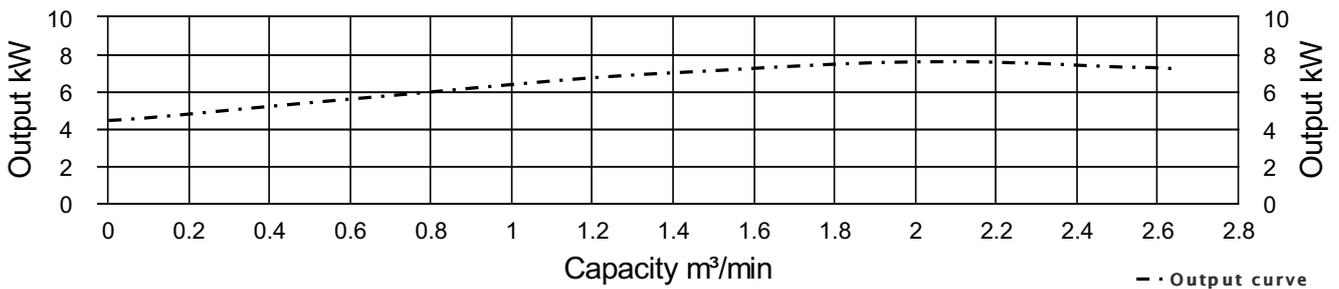
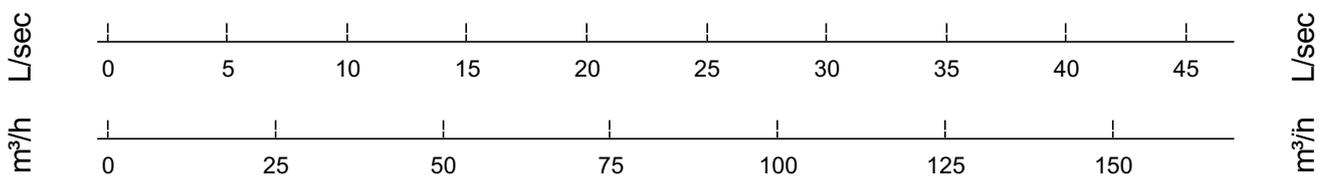
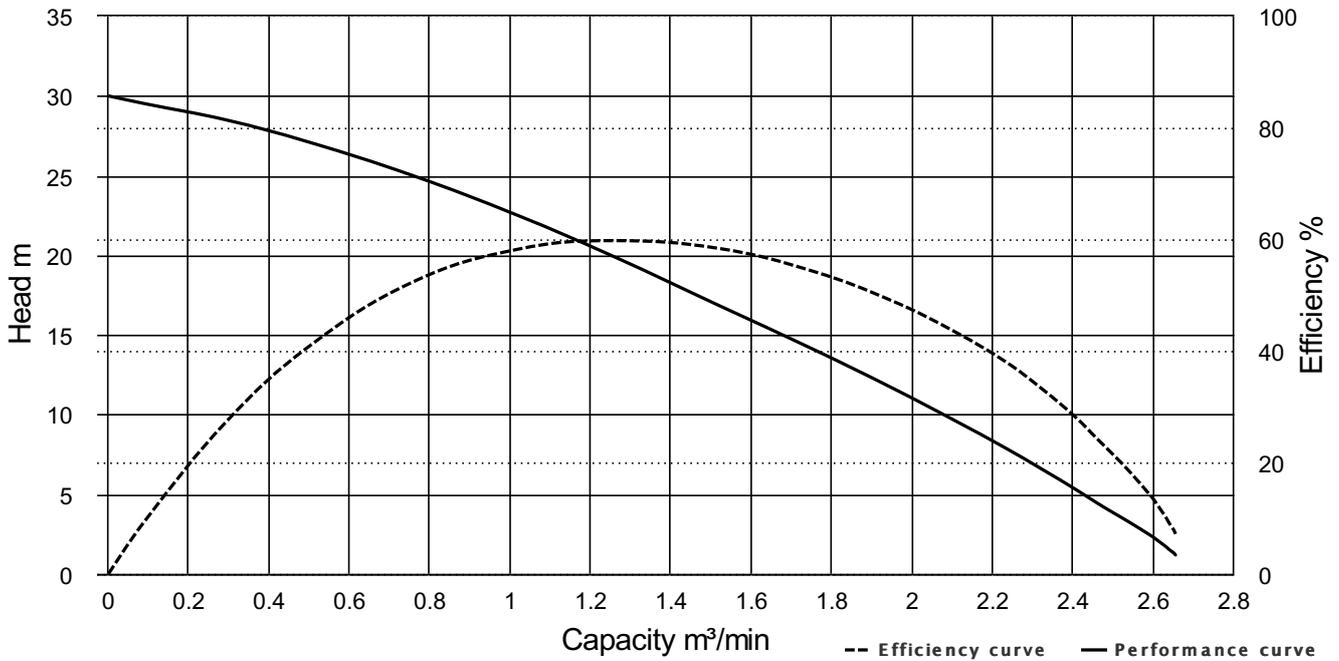
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	150HD27.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	6" / 150 mm						
Power	10 HP / 7.5 kW						
Std. Head	17 m						
Std. Capacity	1.5 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	28.6 A	16 A	15.8 A	15.8 A	12.6 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	H						



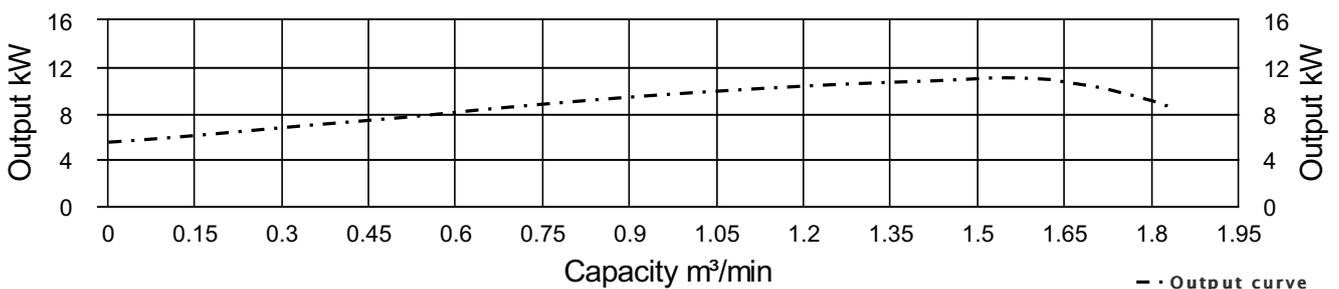
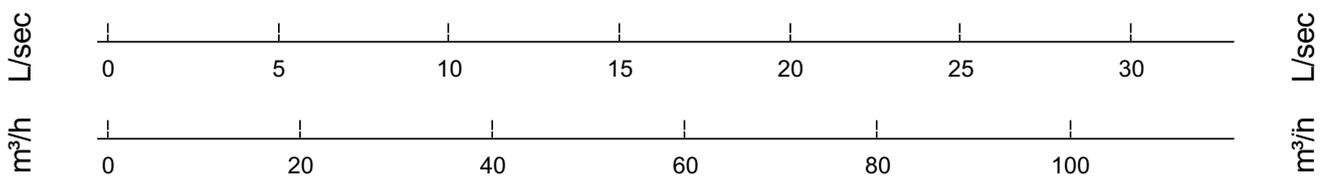
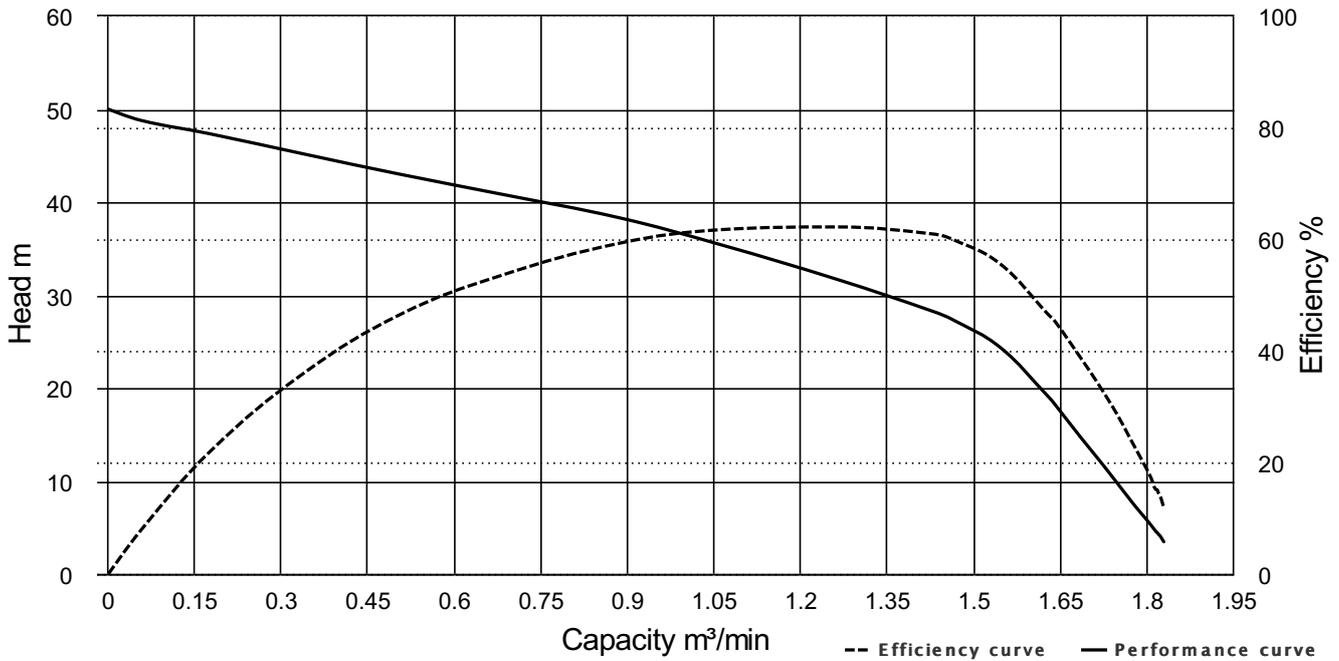
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100HD211					Ver NO.	BA0407	
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION		
Discharge	4" / 100 mm							
Power	15 HP / 11 kW							
Std. Head	36 m							
Std. Capacity	1 m ³ /min							
Volt	230 V	380 V	400 V	415 V	525 V			
Rated Current	39.6 A	22.2 A	21.8 A	21.8 A	17.4 A			
Pole / rpm	2 P / 2900 rpm							
Start Method	DIRECT							
Insulation Class	H							



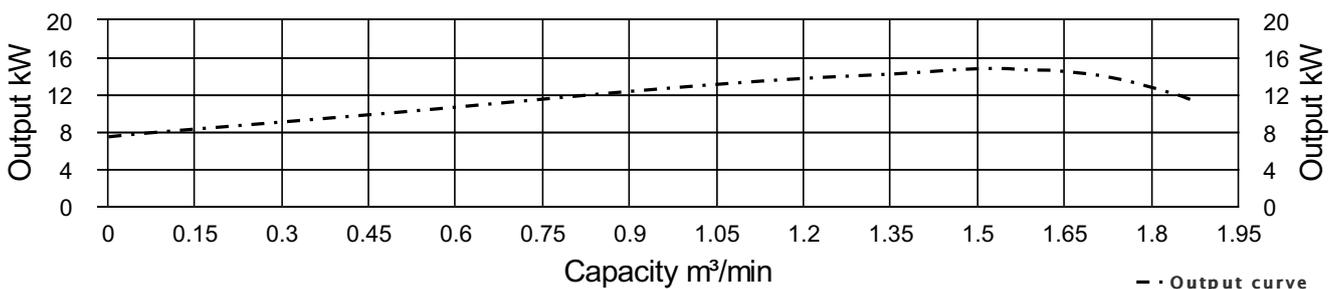
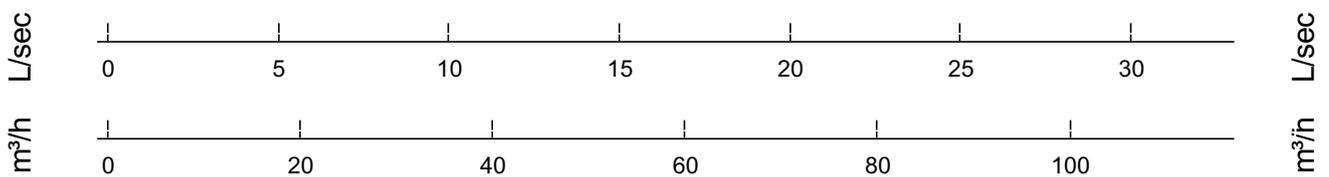
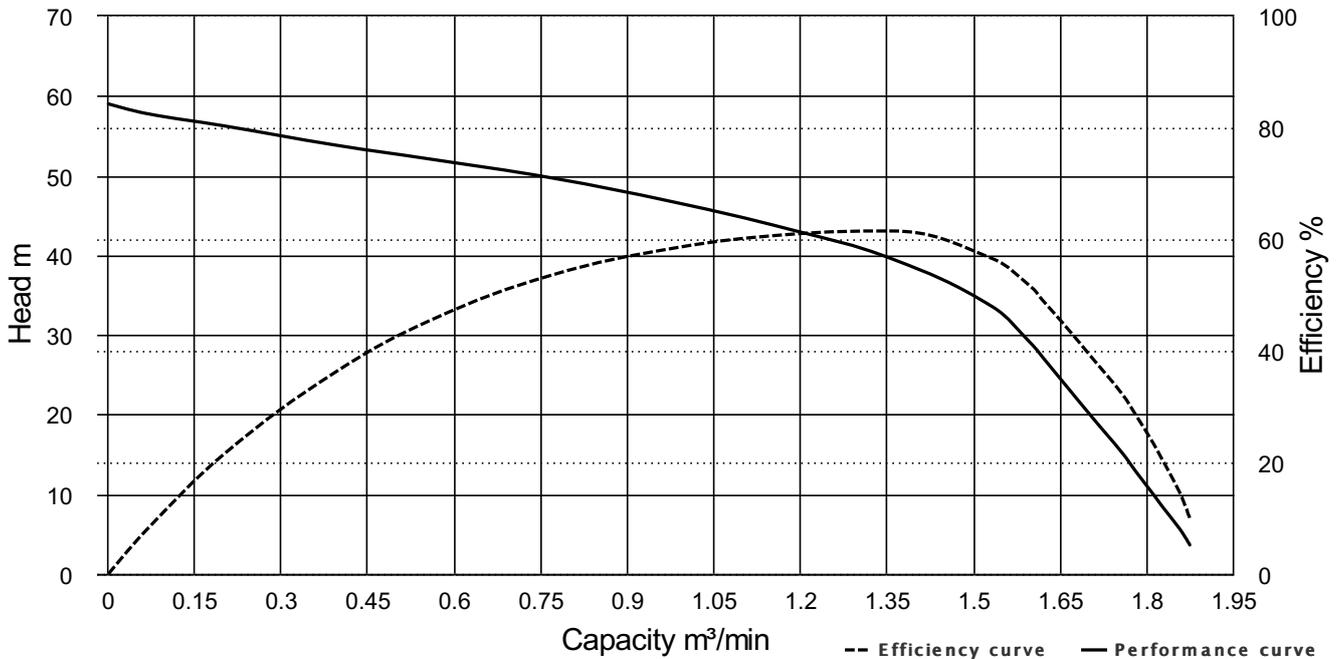
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100HD215					Ver NO.	BA0407	
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION		
Discharge	4" / 100 mm							
Power	20 HP / 15 kW							
Std. Head	46 m							
Std. Capacity	1 m ³ /min							
Volt	230 V	380 V	400 V	415 V	525 V			
Rated Current	52 A	29.2 A	28.6 A	28.6 A	22.8 A			
Pole / rpm	2 P / 2900 rpm							
Start Method	DOL							
Insulation Class	H							



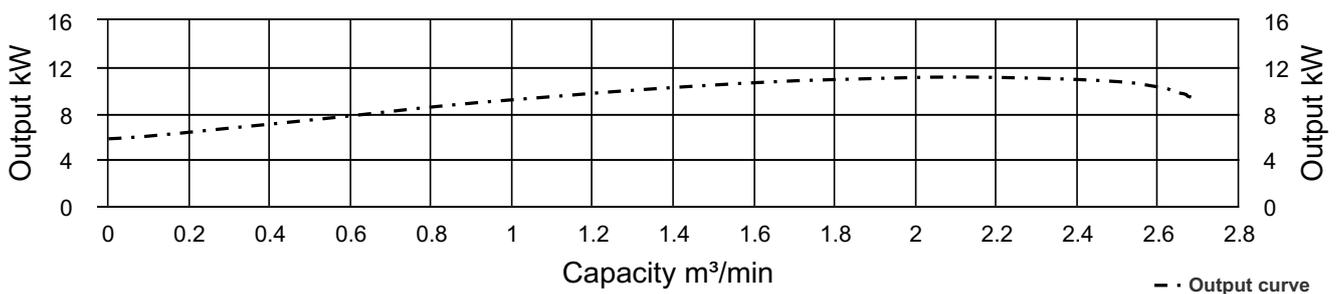
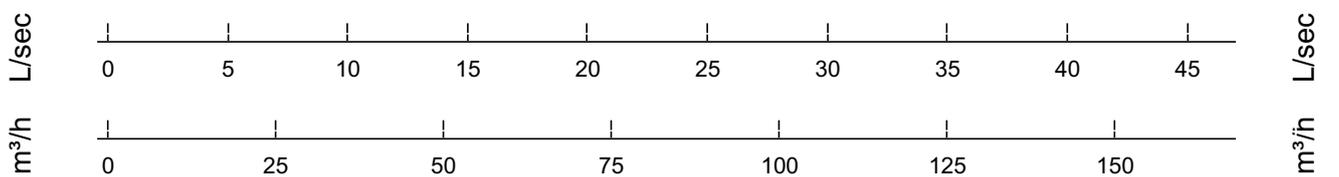
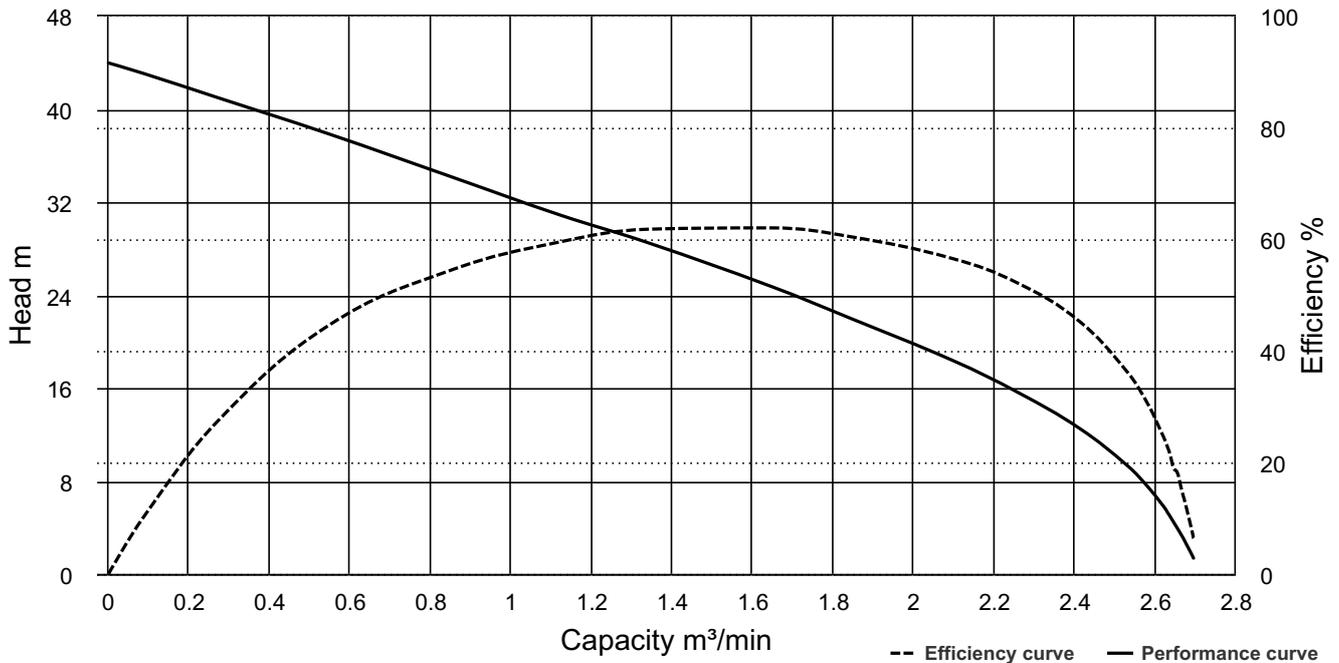
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	150HD211				Ver NO.	BA0512	
Frequency / Phase	50 Hz / 3 Ø				REFERENCE SPECIFICATION		
Discharge	6" / 150 mm						
Power	15 HP / 11 kW						
Std. Head	26.5 m						
Std. Capacity	1.5 m ³ /min						
Volt	230 V	380 V	400 V	525 V			
Rated Current	39 A	22.2 A	21.6 A	17.3 A			
Pole / rpm	2 P / 2900 rpm						
Start Method	DOL						
Insulation Class	H						



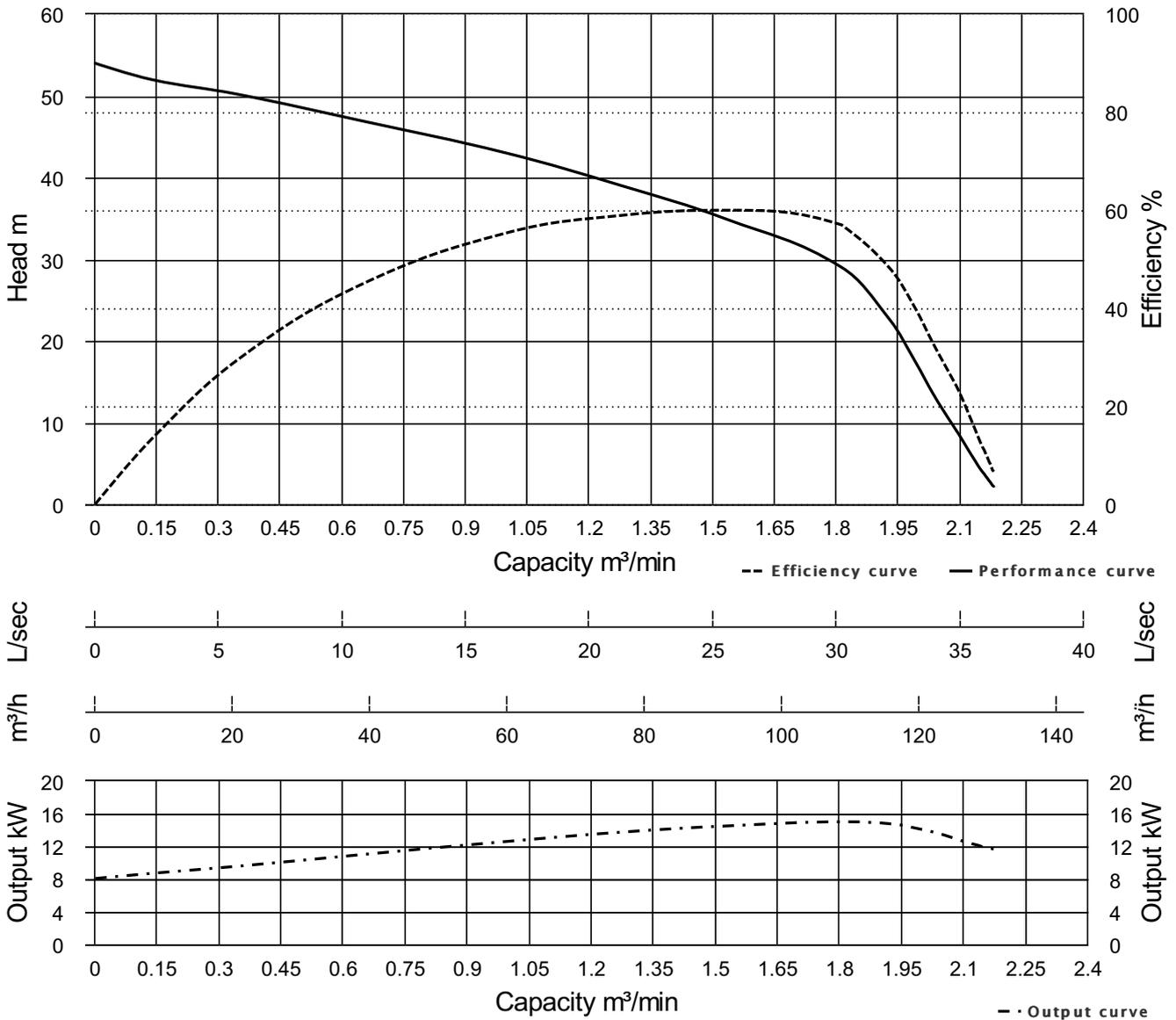
HCP PUMP MANUFACTURER CO., LTD.



HCP PUMP

PUMP PERFORMANCE CURVES

Model	150HD215					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	6" / 150 mm						
Power	20 HP / 15 kW						
Std. Head	35 m						
Std. Capacity	1.5 m ³ /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	52 A	29.2 A	28.6 A	28.6 A	22.8 A		
Pole / rpm	2 P / 2900 rpm						
Start Method	DOL						
Insulation Class	H						



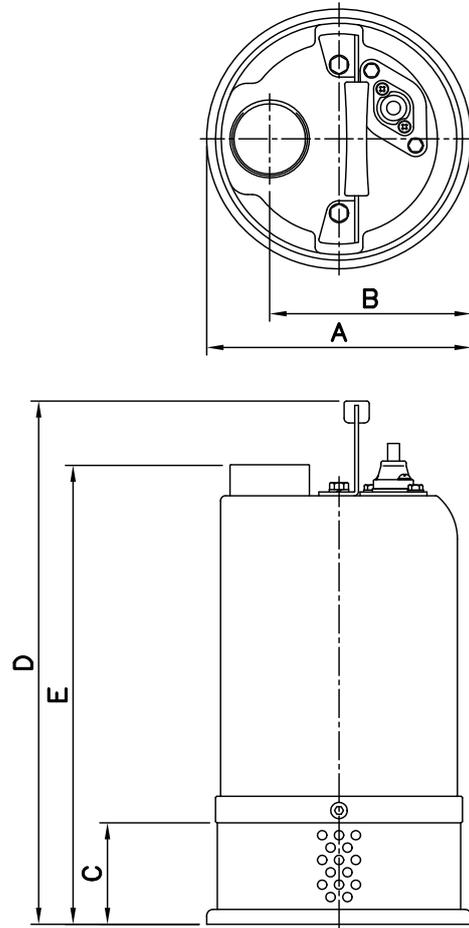
HCP PUMP MANUFACTURER CO., LTD.

DIMENSIONS

NO: S2HD0211032-00

MODEL: 50HD21.1

1Ø / 3Ø



Pump	
Female Thread	
PF	NPT

Dimensions—mm Weight:kg

Model	DN	A	B	C	D	E	WT1
50HD21.1 1Ø	50	210	160	85	482	431	28
50HD21.1 3Ø	50	210	160	85	423	372	24

Dimensions—inch Weight:lb

Model	DN	A	B	C	D	E	WT1
50HD21.1 1Ø	2	8 1/4	6 5/16	3 3/8	19	16 15/16	62
50HD21.1 3Ø	2	8 1/4	6 5/16	3 3/8	16 5/8	14 5/8	53

L.W.L.:Lowest Running Water Level

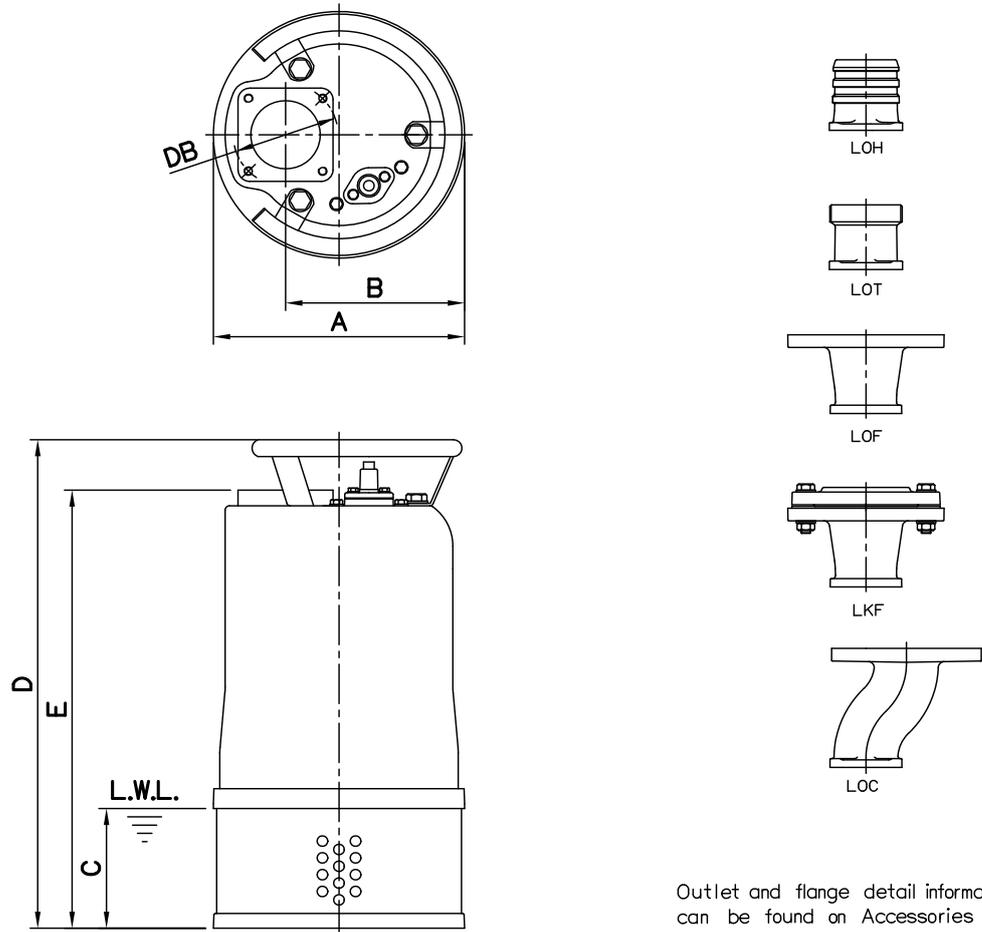
WT1:Pump Weight(Without Cable)
WT2:Elbow Set Weight

DIMENSIONS

NO: S4HD0237030-00

MODEL: 50HD21.5 / 22.2 & 80HD21.5 / 22.2 / 23.7 & 100HD23.7

50Hz 1Ø / 3Ø



Outlet and flange detail information can be found on Accessories section.

Dimensions-mm

Weight:kg

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
50HD21.5 1Ø	235	168	115	511	465	98	40	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD21.5 3Ø	235	168	115	466	421	98	36	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD22.2 1Ø	235	168	115	541	496	98	44	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD22.2 3Ø	235	168	115	466	421	98	39	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
80HD21.5 1Ø	235	168	115	511	465	98	40	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD21.5 3Ø	235	168	115	466	421	98	36	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD22.2 1Ø	235	168	115	541	496	98	45	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD22.2 3Ø	235	168	115	466	421	98	39	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD23.7 3Ø	235	168	115	496	451	98	44	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
100HD23.7 3Ø	235	168	130	511	465	98	44	LOH4-98	LOT4-98	LOF4-175-190*98	LKF4-175*98	-

Dimensions-inch

Weight:lb

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
50HD21.5 1Ø	9 3/4	6 5/8	4 1/2	20 1/8	18 3/16	3 7/8	88	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD21.5 3Ø	9 3/4	6 5/8	4 1/2	18 3/8	16 3/16	3 7/8	79	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD22.2 1Ø	9 3/4	6 5/8	4 1/2	21 1/16	19 1/2	3 7/8	97	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
50HD22.2 3Ø	9 3/4	6 5/8	4 1/2	18 3/8	16 3/16	3 7/8	86	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
80HD21.5 1Ø	9 3/4	6 5/8	4 1/2	20 1/8	18 3/16	3 7/8	88	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD21.5 3Ø	9 3/4	6 5/8	4 1/2	18 3/8	16 3/16	3 7/8	79	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD22.2 1Ø	9 3/4	6 5/8	4 1/2	21 1/16	19 1/2	3 7/8	99	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD22.2 3Ø	9 3/4	6 5/8	4 1/2	18 3/8	16 3/16	3 7/8	86	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
80HD23.7 3Ø	9 3/4	6 5/8	4 1/2	19 1/2	17 3/4	3 7/8	97	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
100HD23.7 3Ø	9 3/4	6 5/8	5 1/8	20 1/8	18 3/16	3 7/8	97	LOH4-98	LOT4-98	LOF4-175-190*98	LKF4-175*98	-

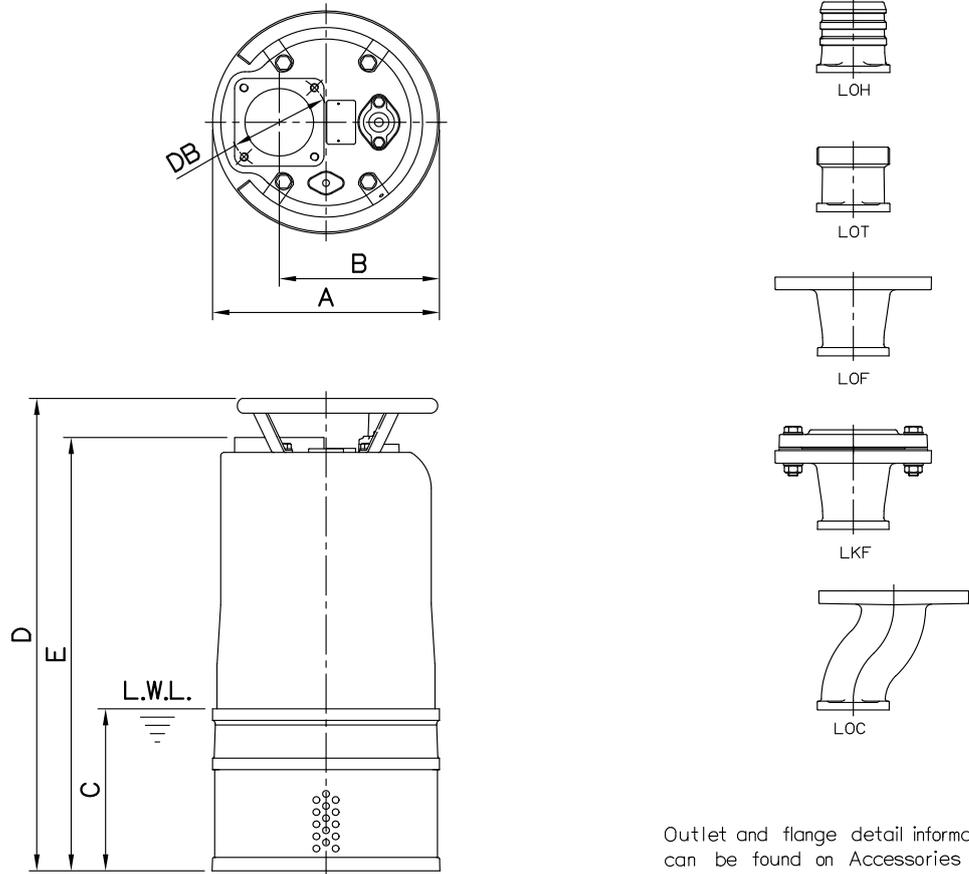
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)

DIMENSIONS

NO: S6HD02A5030-02

MODEL: 80HD25.5 & 100HD25.5 / 27.5 / 211 / 215 & 150HD25.5 / 27.5 / 211 / 215 50Hz 3Ø



Outlet and flange detail information can be found on Accessories section.

Dimensions-mm

Weight:kg

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
80HD25.5	286	206	130	610	550	127	72	LOH3-127	LOT3-127	LOF3-150-160*127	LKF3-150*127	LOC3-150*127
100HD25.5	286	206	130	610	550	127	75	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD25.5	286	206	130	610	550	127	78	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD27.5	286	206	130	610	550	127	80	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD27.5	286	206	130	610	550	127	81	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD211	330	233	200	700	642	145	125	LOH4-145	LOT4-145	-	-	LOC4-175*145
100HD215	330	233	200	700	642	145	134	LOH4-145	LOT4-145	-	-	LOC4-175*145
150HD211	330	233	200	700	642	145	124	LOH6-145	LOT6-145	-	-	LOC6-240*145
150HD215	330	233	200	700	642	145	133	LOH6-145	LOT6-145	-	-	LOC6-240*145

Dimensions-inch

Weight:lb

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
80HD25.5	11¼	8⅜	5⅝	24	21⅝	5	159	LOH3-127	LOT3-127	LOF3-150-160*127	LKF3-150*127	LOC3-150*127
100HD25.5	11¼	8⅜	5⅝	24	21⅝	5	165	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD25.5	11¼	8⅜	5⅝	24	21⅝	5	172	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD27.5	11¼	8⅜	5⅝	24	21⅝	5	176	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD27.5	11¼	8⅜	5⅝	24	21⅝	5	179	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD211	13	9⅜	7⅞	27⅞	25¼	5⅜	276	LOH4-145	LOT4-145	-	-	LOC4-175*145
100HD215	13	9⅜	7⅞	27⅞	25¼	5⅜	295	LOH4-145	LOT4-145	-	-	LOC4-175*145
150HD211	13	9⅜	7⅞	27⅞	25¼	5⅜	273	LOH6-145	LOT6-145	-	-	LOC6-240*145
150HD215	13	9⅜	7⅞	27⅞	25¼	5⅜	293	LOH6-145	LOT6-145	-	-	LOC6-240*145

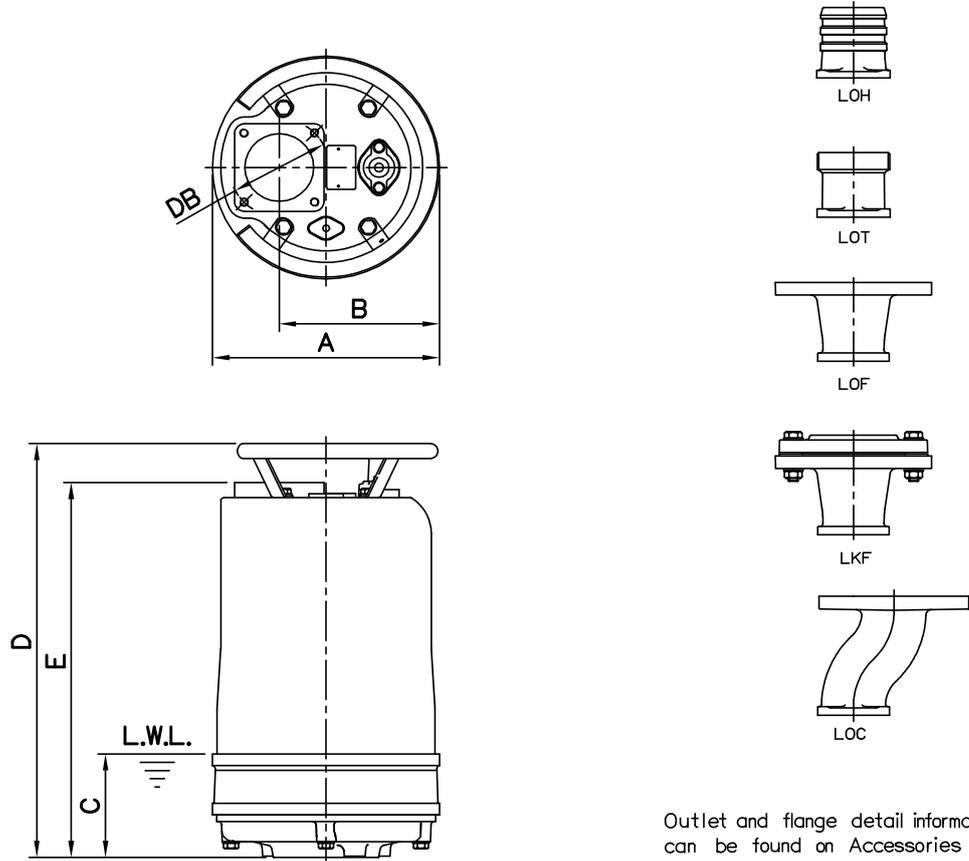
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)

DIMENSIONS

NO: S6HD02A5033-00

MODEL: 80HD25.5 & 100HD25.5/27.5/211/215 & 150HD25.5/27.5/211/215 W/OF 50Hz 3Ø



Outlet and flange detail information can be found on Accessories section.

Dimensions-mm

Weight:kg

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
80HD25.5	286	206	107	536	476	127	67	LOH3-127	LOT3-127	LOF3-150-160*127	LKF3-150*127	LOC3-150*127
100HD25.5	286	206	120	549	489	127	70	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD25.5	286	206	120	549	489	127	73	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD27.5	286	206	120	549	489	127	75	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD27.5	286	206	128	557	497	127	76	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD211	330	233	153	613	555	145	117	LOH4-145	LOT4-145	-	-	LOC4-175*145
100HD215	330	233	153	613	555	145	126	LOH4-145	LOT4-145	-	-	LOC4-175*145
150HD211	330	233	153	613	555	145	116	LOH6-145	LOT6-145	-	-	LOC6-240*145
150HD215	330	233	153	613	555	145	125	LOH6-145	LOT6-145	-	-	LOC6-240*145

Dimensions-inch

Weight:lb

Model	A	B	C	D	E	DB	WT1	Optional Outlet Accessories				
								LOH	LOT	LOF	LKF	LOC
80HD25.5	11 $\frac{1}{4}$	8 $\frac{1}{8}$	4 $\frac{3}{16}$	21 $\frac{3}{16}$	18 $\frac{3}{4}$	5	148	LOH3-127	LOT3-127	LOF3-150-160*127	LKF3-150*127	LOC3-150*127
100HD25.5	11 $\frac{1}{4}$	8 $\frac{1}{8}$	4 $\frac{3}{4}$	21 $\frac{1}{8}$	19 $\frac{1}{4}$	5	154	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD25.5	11 $\frac{1}{4}$	8 $\frac{1}{8}$	4 $\frac{3}{4}$	21 $\frac{1}{8}$	19 $\frac{1}{4}$	5	161	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD27.5	11 $\frac{1}{4}$	8 $\frac{1}{8}$	4 $\frac{3}{4}$	21 $\frac{1}{8}$	19 $\frac{1}{4}$	5	165	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
150HD27.5	11 $\frac{1}{4}$	8 $\frac{1}{8}$	5 $\frac{1}{16}$	21 $\frac{1}{8}$	19 $\frac{3}{16}$	5	168	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
100HD211	13	9 $\frac{3}{16}$	6	24 $\frac{3}{8}$	21 $\frac{1}{8}$	5 $\frac{1}{2}$	258	LOH4-145	LOT4-145	-	-	LOC4-175*145
100HD215	13	9 $\frac{3}{16}$	6	24 $\frac{3}{8}$	21 $\frac{1}{8}$	5 $\frac{1}{2}$	278	LOH4-145	LOT4-145	-	-	LOC4-175*145
150HD211	13	9 $\frac{3}{16}$	6	24 $\frac{3}{8}$	21 $\frac{1}{8}$	5 $\frac{1}{2}$	256	LOH6-145	LOT6-145	-	-	LOC6-240*145
150HD215	13	9 $\frac{3}{16}$	6	24 $\frac{3}{8}$	21 $\frac{1}{8}$	5 $\frac{1}{2}$	276	LOH6-145	LOT6-145	-	-	LOC6-240*145

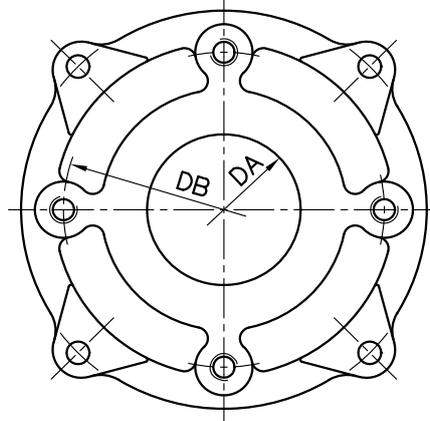
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)

DIMENSIONS

NO: SOHD0000001-02

MODEL: Casing cover



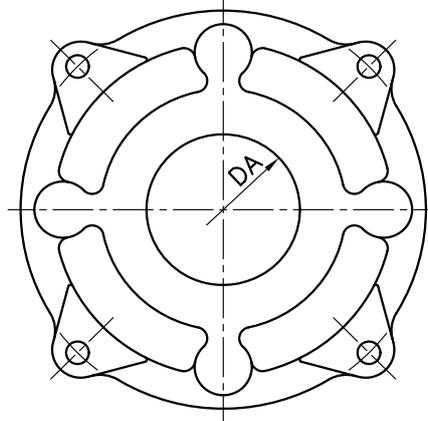
Application Model	Dimensions-mm		Dimensions-inch		Drilling	Suggested Bolts	(n)QTY
	DA	DB	DA	DB			
80HD21.5	67	140	2 ⁵ / ₈	5 ¹ / ₂	M12	M12*25	4
80HD22.2	67	140	2 ⁵ / ₈	5 ¹ / ₂	M12	M12*25	4
80HD23.7	67	140	2 ⁵ / ₈	5 ¹ / ₂	M12	M12*25	4
100HD23.7	80	150	3	6	M12	M12*25	4

DIMENSIONS

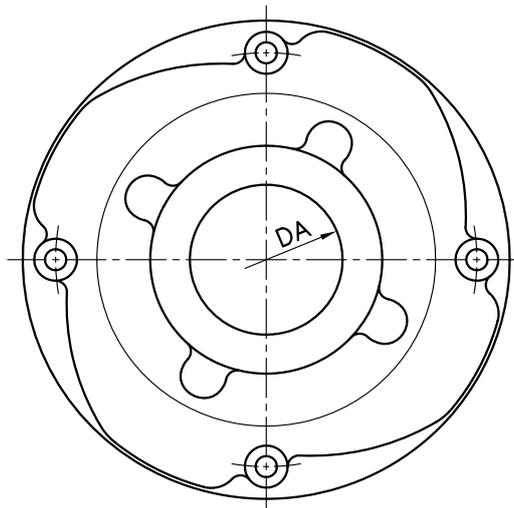
NO: SOHD0000004-00

MODEL: Casing & Casing cover

50Hz



Application Model	Dimensions-mm	Dimensions-inch
	DA	DA
100HD25.5	87	3 ⁷ / ₁₆
100HD27.5	87	3 ⁷ / ₁₆
150HD25.5	97	3 ¹³ / ₁₆
150HD27.5	97	3 ¹³ / ₁₆



Application Model	Dimensions-mm	Dimensions-inch
	DA	DA
100HD211	100	4
100HD215	100	4
150HD211	100	4
150HD215	100	4

Casing (15HP~20HP)

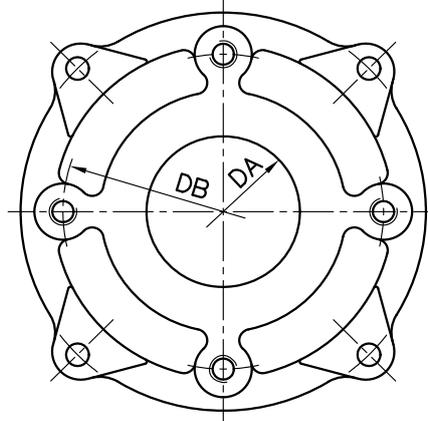
Casing Cover (7.5HP~10HP)

DIMENSIONS

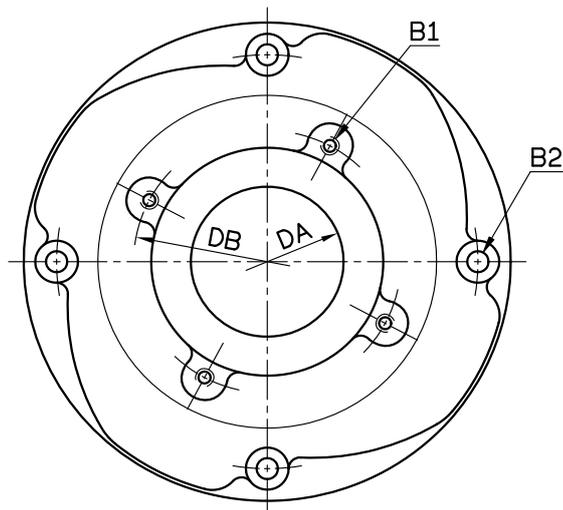
NO: SOHD000005-00

MODEL: Casing & Casing cover W/OF Optional

50Hz



Application Model	Dimensions-mm		Dimensions-inch		Drilling	Suggested Bolts	(n)QTY
	DA	DB	DA	DB			
100HD25.5	87	150	3 ⁷ / ₁₆	6	M12	M12*25	4
100HD27.5	87	150	3 ⁷ / ₁₆	6	M12	M12*25	4
150HD25.5	97	175	3 ¹³ / ₁₆	7	M12	M12*25	4
150HD27.5	97	175	3 ¹³ / ₁₆	7	M12	M12*25	4



Application Model	Dimensions-mm		Dimensions-inch		Drilling	Suggested Bolts		(n)QTY	
	DA	DB	DA	DB		B1	B2	B1	B2
100HD211	100	175	4	7	M12	M12*30	M12*60	4	4
100HD215	100	175	4	7	M12	M12*30	M12*60	4	4
150HD211	100	175	4	7	M12	M12*30	M12*60	4	4
150HD215	100	175	4	7	M12	M12*30	M12*60	4	4

Optional Casing (15HP~20HP)

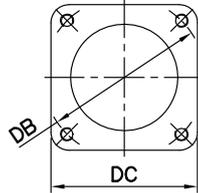
Casing Cover (7.5HP~10HP)

DIMENSIONS

NO: SOHD000000-00

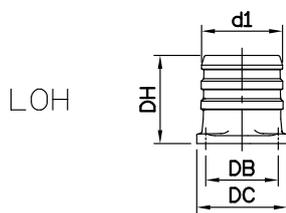
MODEL: Outlet (2"~6")

OUTLET CONNECTION

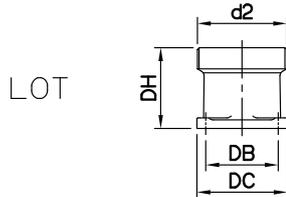


Model	mm		inch		Drilling
	DB	DC	DB	DC	
1.5~3.7kW	98	89	3 ⁷ / ₈	3 ¹ / ₂	M8
5.5~7.5kW	127	112	5	4 ⁷ / ₁₆	M10
11~15kW	145	130	5 ¹ / ₂	5 ¹ / ₈	M12

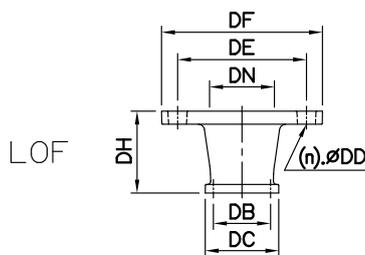
OPTIONAL OUTLET ACCESSORIES



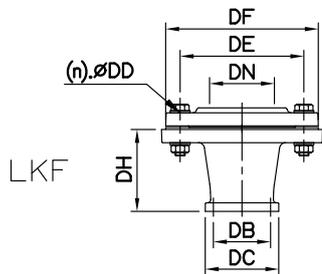
LOH	Dimensions-mm				kg	Dimensions-inch				lb
	d1	DB	DC	DH		d1	DB	DC	DH	
LOH2-98	50	98	89	80	1	2	3 ⁷ / ₈	3 ¹ / ₂	3 ¹ / ₈	2
LOH3-98	80	98	89	100	2	3	3 ⁷ / ₈	3 ¹ / ₂	3 ¹⁵ / ₁₆	4
LOH3-127	80	127	112	110	2	3	5	4 ⁷ / ₁₆	4 ⁵ / ₁₆	4
LOH4-98	100	98	89	115	2	4	3 ⁷ / ₈	3 ¹ / ₂	4 ¹ / ₂	4
LOH4-127	100	127	112	110	3	4	5	4 ⁷ / ₁₆	4 ⁵ / ₁₆	7
LOH6-127	150	127	112	172	5	6	5	4 ⁷ / ₁₆	6 ³ / ₄	11
LOH4-145	100	145	130	120	3	4	5 ¹ / ₂	5 ¹ / ₈	4 ³ / ₄	7
LOH6-145	150	145	130	175	5	6	5 ¹ / ₂	5 ¹ / ₈	6 ³ / ₈	11



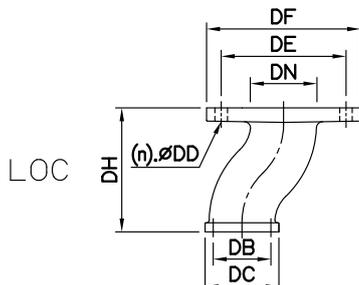
LOT	Dimensions-mm				kg	Dimensions-inch				lb	Thread Available		
	d2	DB	DC	DH		d2	DB	DC	DH		Weight		
LOT2-98	50	98	89	80	1	2	3 ⁷ / ₈	3 ¹ / ₂	3 ¹ / ₈	2	PF	PT	NPT
LOT3-98	80	98	89	80	2	3	3 ⁷ / ₈	3 ¹ / ₂	3 ¹ / ₈	4	PF	PT	NPT
LOT3-127	80	127	112	85	2	3	5	4 ⁷ / ₁₆	3 ³ / ₈	4	PF	PT	NPT
LOT4-98	100	98	89	100	2	4	3 ⁷ / ₈	3 ¹ / ₂	3 ¹⁵ / ₁₆	4	PF	PT	NPT
LOT4-127	100	127	112	85	2	4	5	4 ⁷ / ₁₆	3 ³ / ₈	4	PF	PT	NPT
LOT6-127	150	127	112	140	4	6	5	4 ⁷ / ₁₆	5 ¹ / ₂	9	PF	PT	NPT
LOT4-145	100	145	130	100	3	4	5 ¹ / ₂	5 ¹ / ₈	3 ¹⁵ / ₁₆	7	PF	PT	NPT
LOT6-145	150	145	130	150	5	6	5 ¹ / ₂	5 ¹ / ₈	5 ¹ / ₈	11	PF	PT	NPT



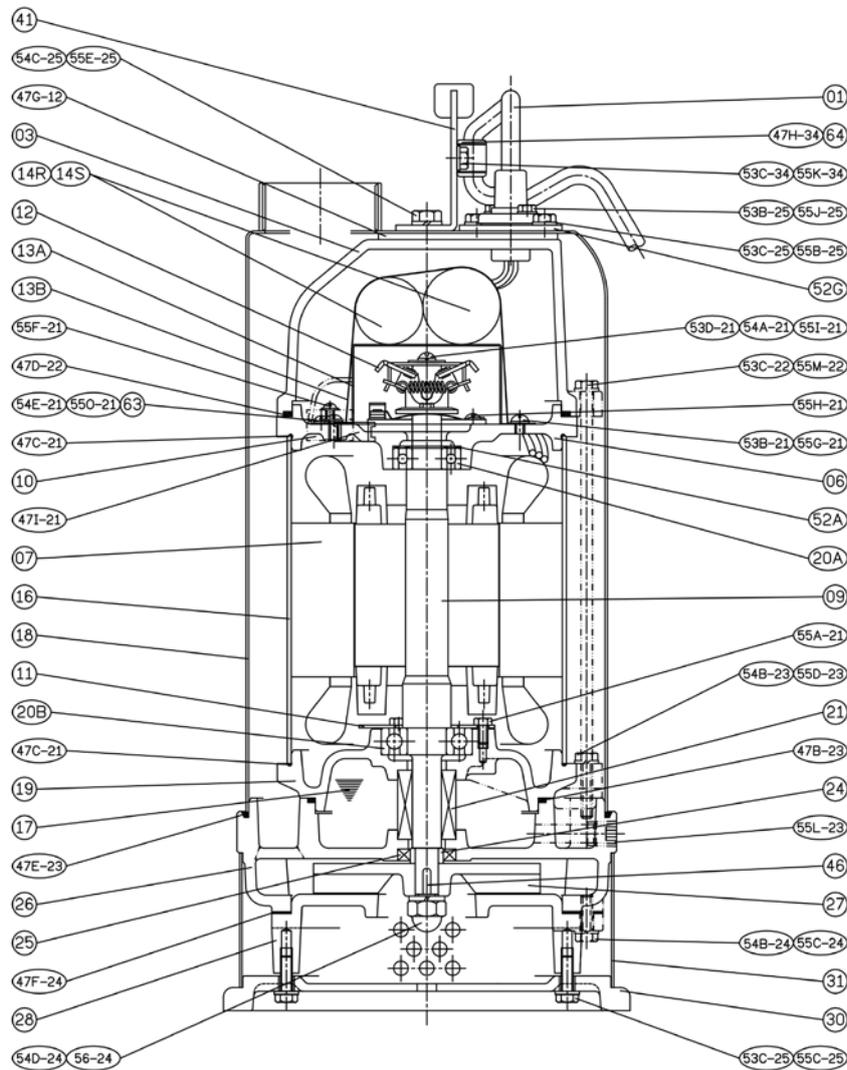
LOF	Dimensions-mm								kg	Dimensions-inch								lb	(n)QTY
	DN	DB	DC	DD	DE	DF	DH	Weight		DN	DB	DC	DD	DE	DF	DH	Weight		
LOF2-120-125*98	50	98	89	19	120~125	160	90	3	2	3 ⁷ / ₈	3 ¹ / ₂	3 ³ / ₄	4 ³ / ₄ ~4 ¹⁵ / ₁₆	6 ⁵ / ₁₆	3 ³ / ₁₆	7	4		
LOF3-150-160*98	80	98	89	19	150~160	195	100	4	3	3 ⁷ / ₈	3 ¹ / ₂	3 ³ / ₄	5 ³ / ₄ ~6 ⁵ / ₁₆	7 ¹ / ₁₆	3 ¹⁵ / ₁₆	9	8		
LOF3-150-160*127	80	127	112	19	150~160	195	110	7	3	5	4 ⁷ / ₁₆	3 ³ / ₄	5 ³ / ₄ ~6 ⁵ / ₁₆	7 ¹ / ₁₆	4 ⁵ / ₁₆	15	8		
LOF4-175-190*98	100	98	89	19	175~190	225	100	6	4	3 ⁷ / ₈	3 ¹ / ₂	3 ³ / ₄	6 ⁷ / ₈ ~7 ¹ / ₂	8 ⁷ / ₁₆	3 ¹⁵ / ₁₆	13	8		
LOF4-175-190*127	100	127	112	19	175~190	225	110	10	4	5	4 ⁷ / ₁₆	3 ³ / ₄	6 ⁷ / ₈ ~7 ¹ / ₂	8 ⁷ / ₁₆	4 ⁵ / ₁₆	22	8		
LOF6-240*127	150	127	112	23	240	280	140	14	6	5	4 ⁷ / ₁₆	7 ¹ / ₈	9 ¹ / ₁₆	11	5 ¹ / ₂	31	8		



LKF	Dimensions-mm								kg	Dimensions-inch								lb	(n)QTY	Thread Available	
	DN	DB	DC	DD	DE	DF	DH	Weight		DN	DB	DC	DD	DE	DF	DH	Weight				
LKF2-120*98	50	98	89	15	120	155	90	5	2	3 ⁷ / ₈	3 ¹ / ₂	3 ⁹ / ₁₆	4 ³ / ₄	6 ¹ / ₈	3 ⁹ / ₁₆	11	4	PT	NPT		
LKF3-150*98	80	98	89	15	150	185	100	8	3	3 ⁷ / ₈	3 ¹ / ₂	3 ⁹ / ₁₆	5 ³ / ₄	7 ¹ / ₁₆	3 ¹⁵ / ₁₆	18	8	PT	NPT		
LKF3-150*127	80	127	112	15	150	185	110	8	3	5	4 ⁷ / ₁₆	3 ⁹ / ₁₆	5 ³ / ₄	7 ¹ / ₁₆	4 ⁵ / ₁₆	15	8	PT	NPT		
LKF4-175*98	100	98	89	15	175	210	100	10	4	3 ⁷ / ₈	3 ¹ / ₂	3 ⁹ / ₁₆	6 ⁷ / ₈	8 ¹ / ₄	3 ¹⁵ / ₁₆	22	8	PT	NPT		
LKF4-175*127	100	127	112	15	175	210	110	10	4	5	4 ⁷ / ₁₆	3 ⁹ / ₁₆	6 ⁷ / ₈	8 ¹ / ₄	4 ⁵ / ₁₆	22	8	PT	NPT		
LKF6-240*127	150	127	112	23	240	280	140	20	6	5	4 ⁷ / ₁₆	7 ¹ / ₈	9 ¹ / ₁₆	11	5 ¹ / ₂	44	8	PT	NPT		

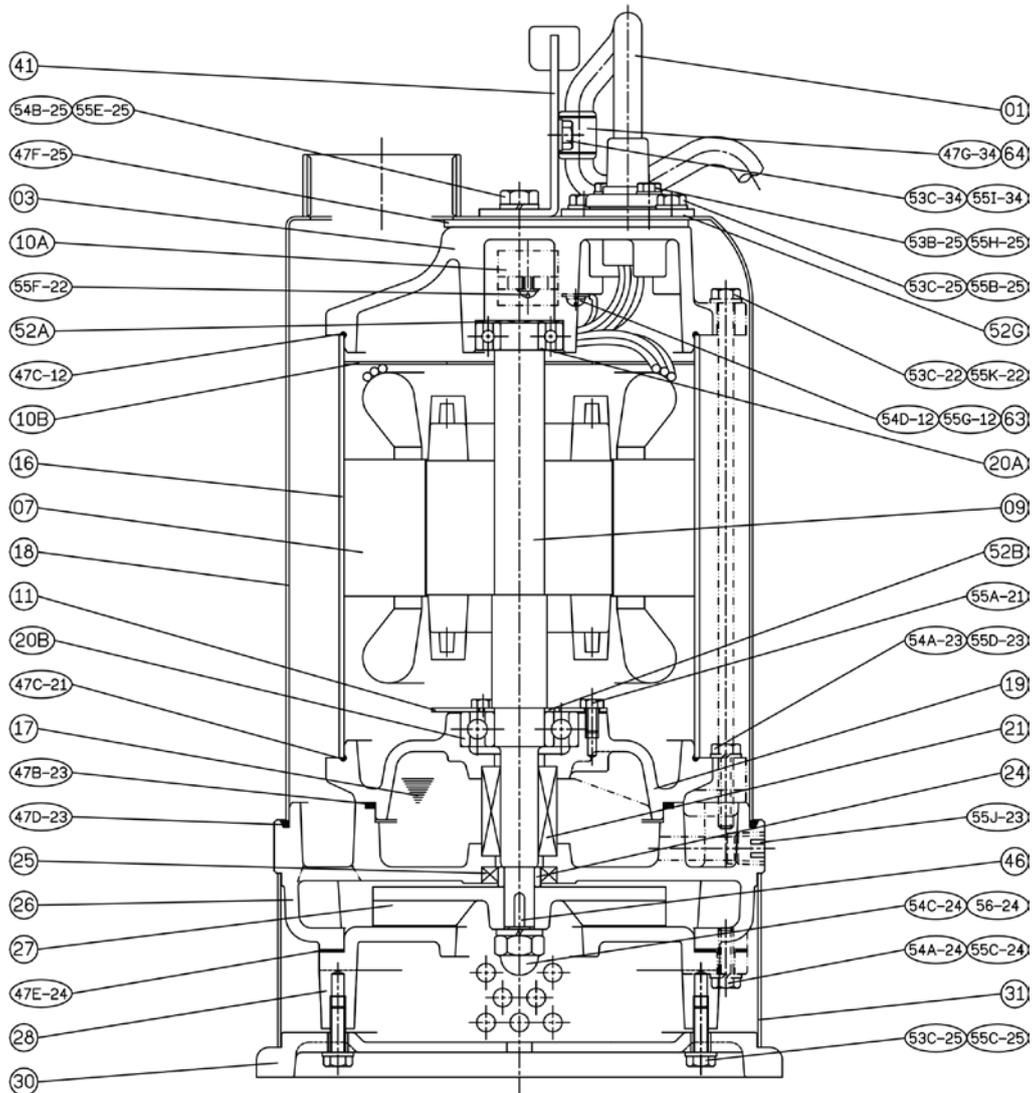


LOC	Dimensions-mm								kg	Dimensions-inch								lb	(n)QTY
	DN	DB	DC	DD	DE	DF	DH	Weight		DN	DB	DC	DD	DE	DF	DH	Weight		
LOC3-150*98	80	98	89	15	150	185	150	5	3	3 ⁷ / ₈	3 ¹ / ₂	3 ⁹ / ₁₆	5 ³ / ₄	7 ¹ / ₁₆	5 ³ / ₄	11	8		
LOC3-150*127	80	127	112	15	150	185	180	6	3	5	4 ⁷ / ₁₆	3 ⁹ / ₁₆	5 ³ / ₄	7 ¹ / ₁₆	7 ¹ / ₁₆	13	8		
LOC4-175*145	100	145	130	15	175	220	200	9	4	5 ¹ / ₂	5 ¹ / ₈	3 ⁹ / ₁₆	6 ⁷ / ₈	8 ¹ / ₁₆	7 ¹ / ₈	20	8		
LOC6-240*145	150	145	130	23	240	280	240	13	6	5 ¹ / ₂	5 ¹ / ₈	7 ¹ / ₈	9 ¹ / ₁₆	11	9 ¹ / ₁₆	29	8		



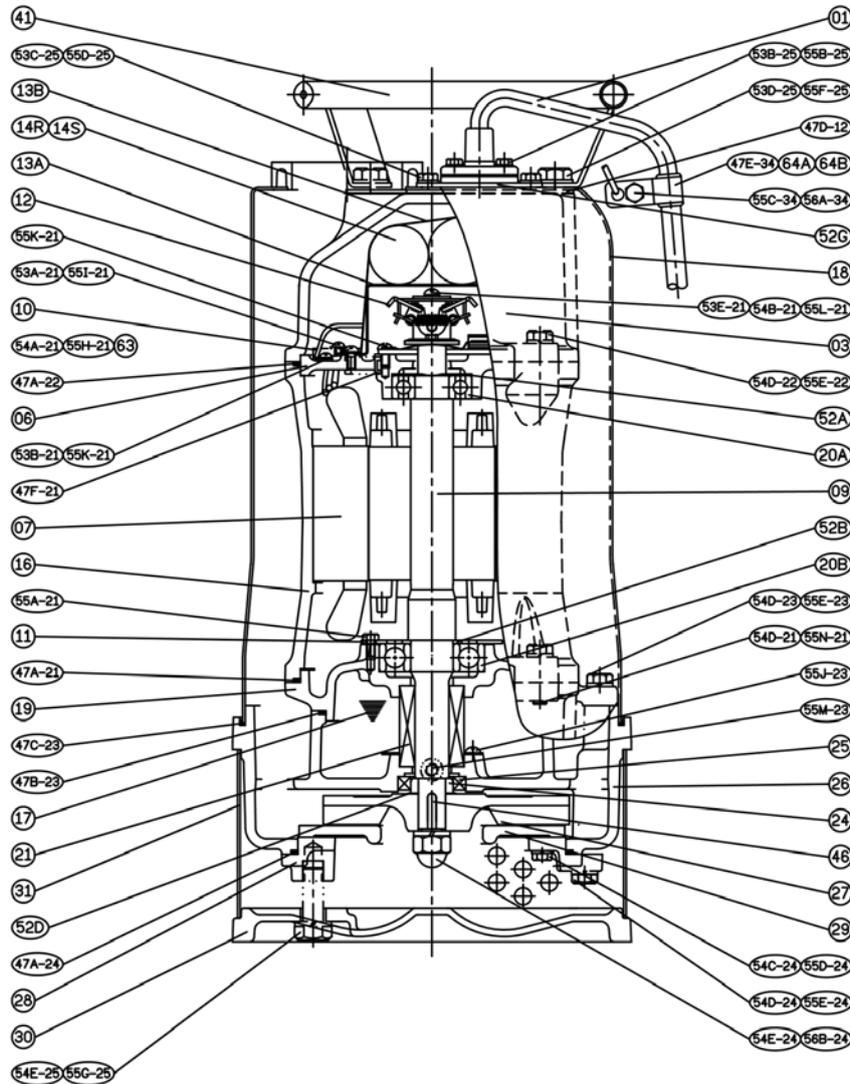
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	SUS304	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1

NO.	Part name	Material	QTY
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FCD700	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304+NBR	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



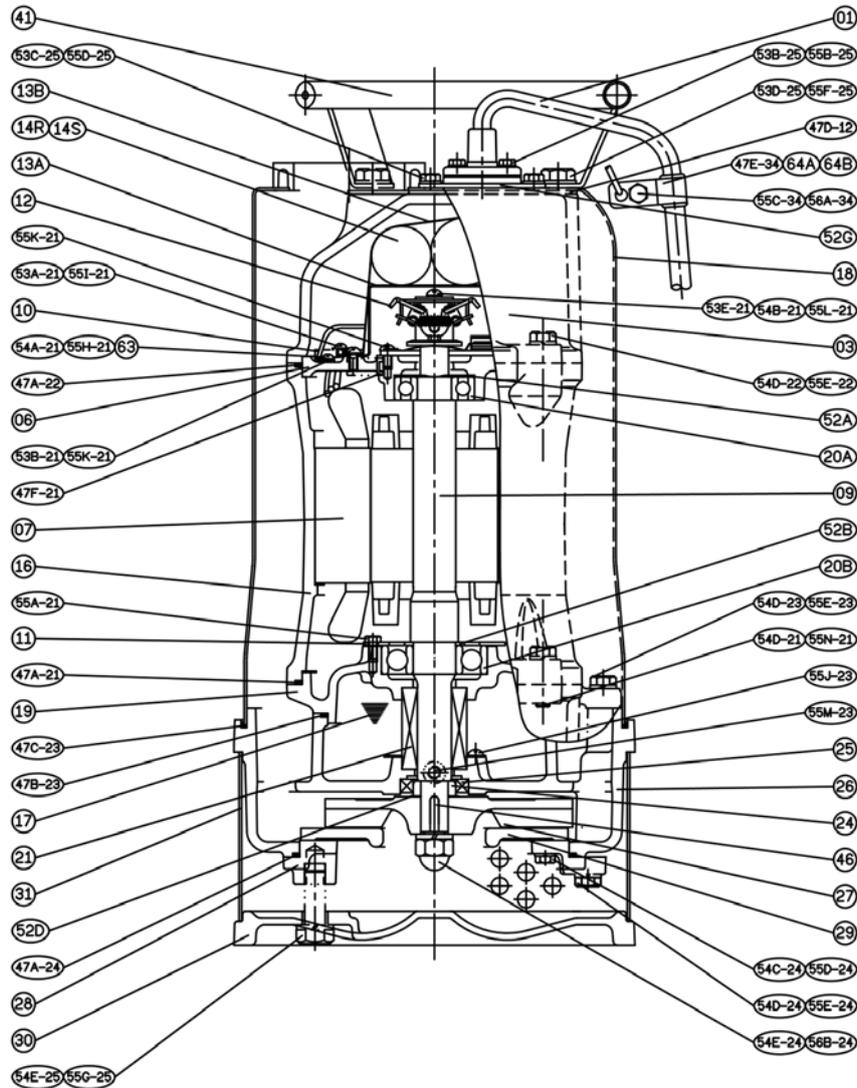
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	SUS304	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FCD700	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304+NBR	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



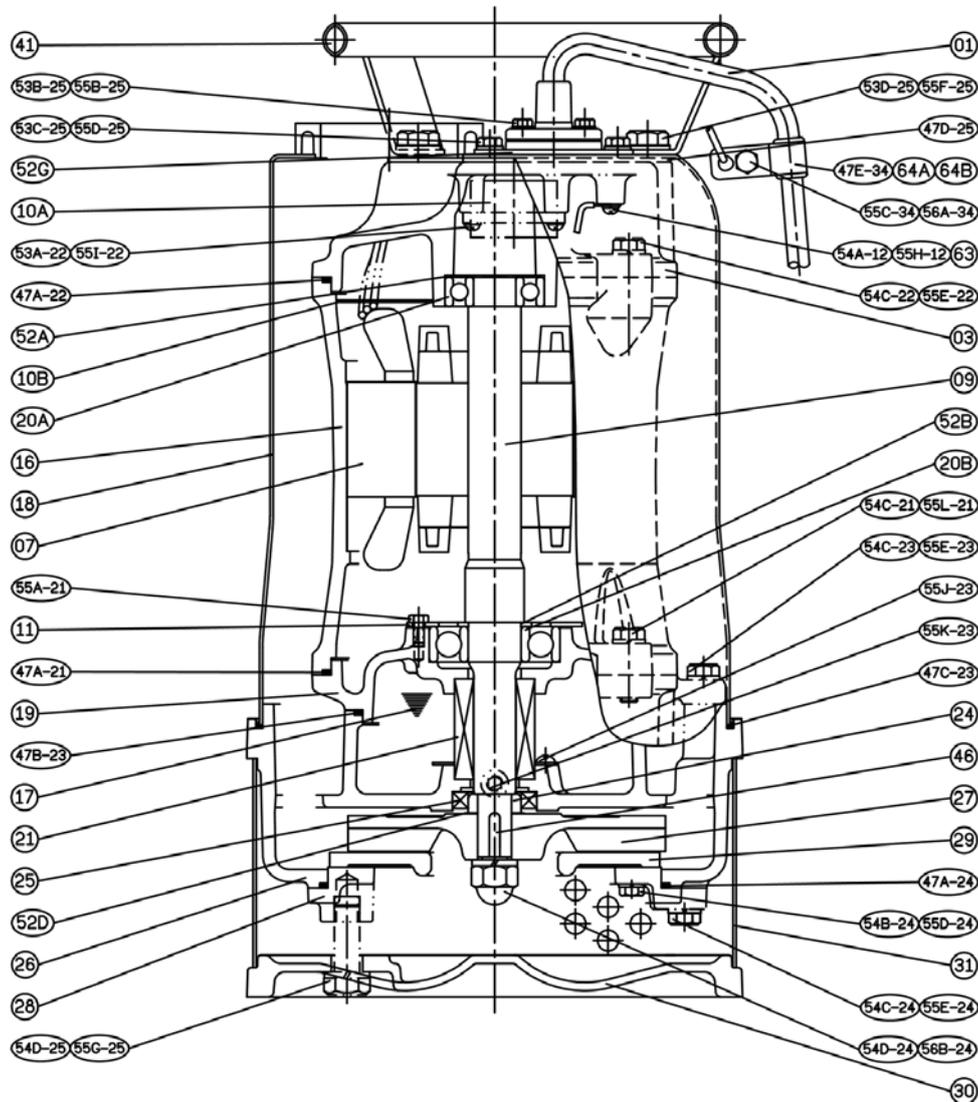
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1

NO.	Part name	Material	QTY
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FC200	1
29	Wear plate	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



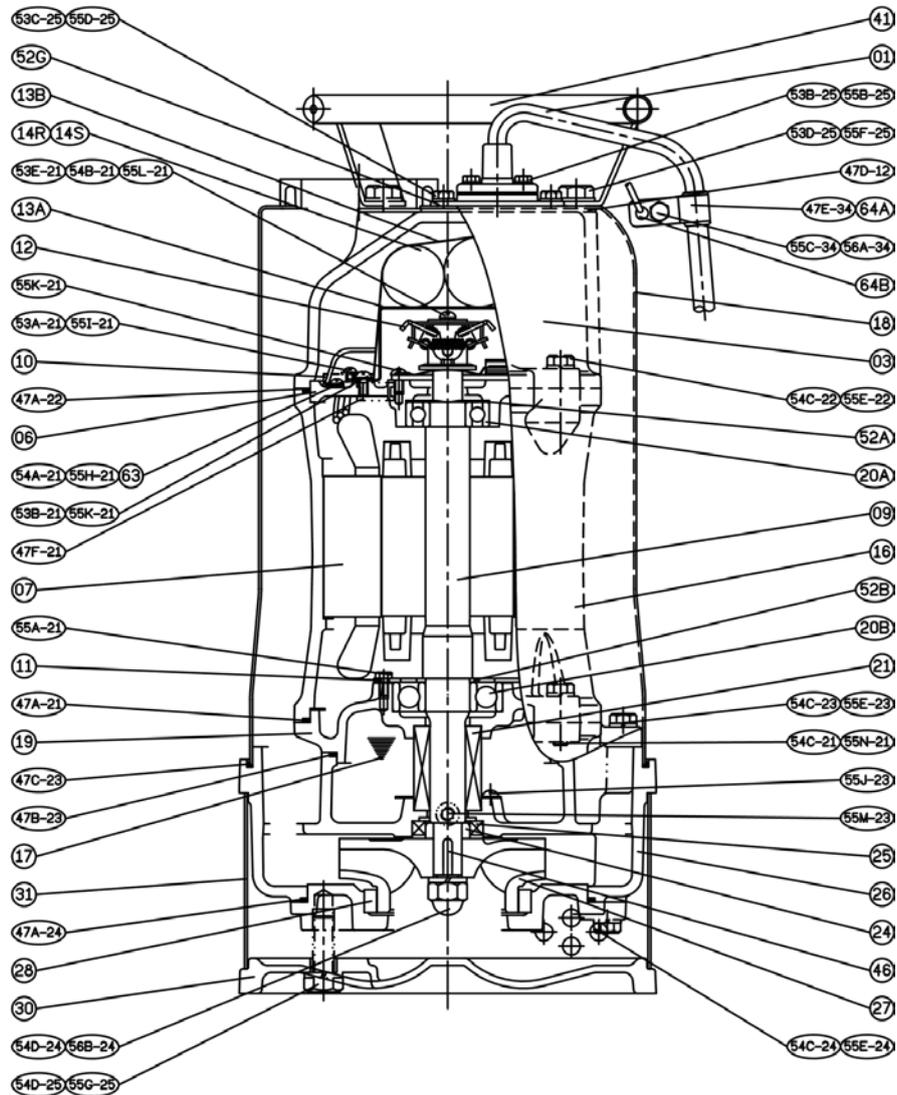
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1

NO.	Part name	Material	QTY
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FC200	1
29	Wear plate	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



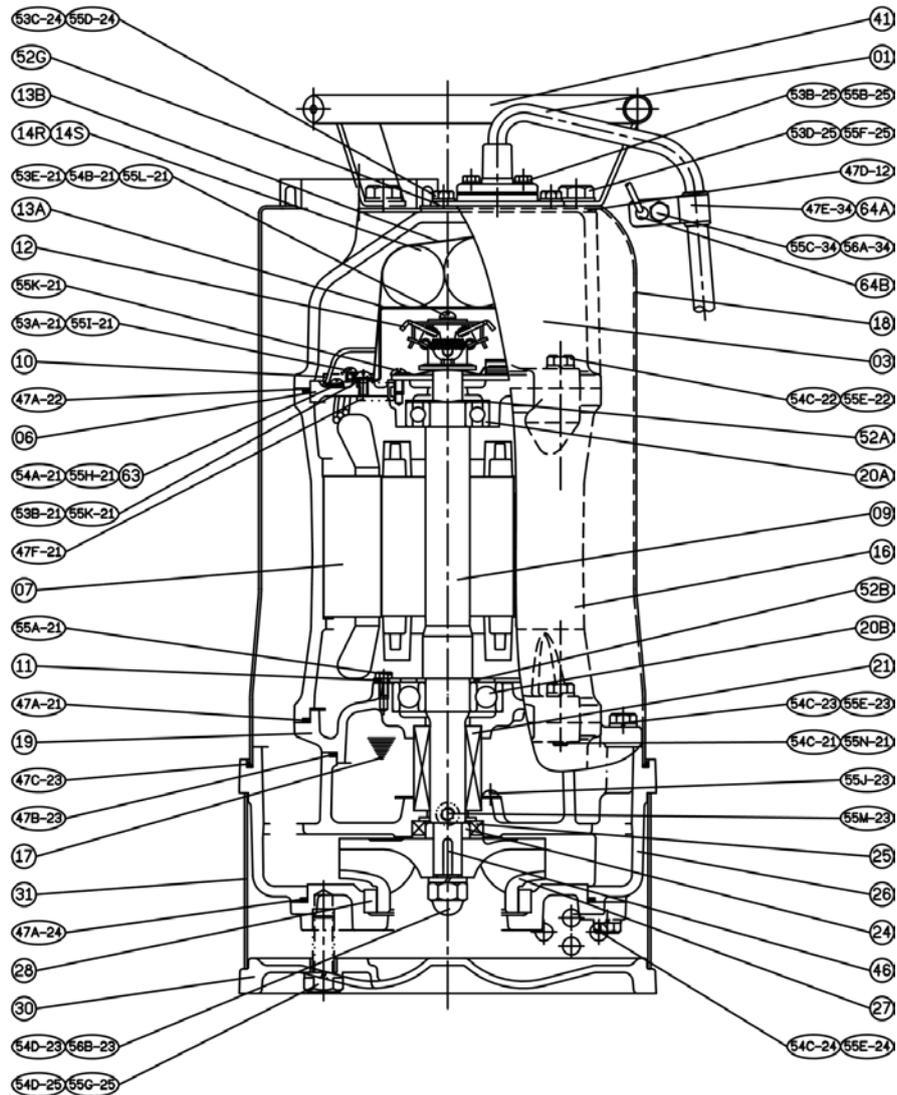
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FC200	1
29	Wear plate	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



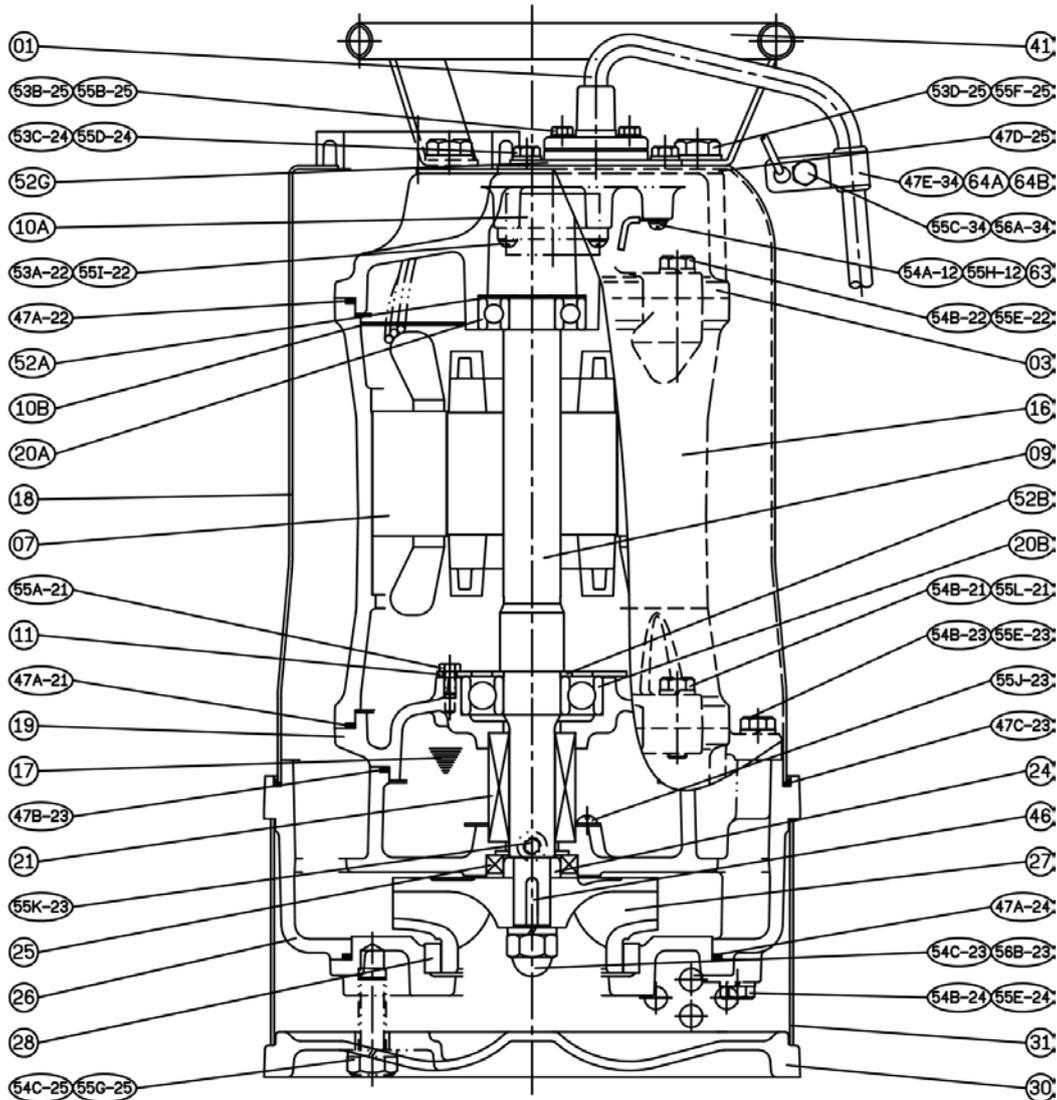
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1

NO.	Part name	Material	QTY
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



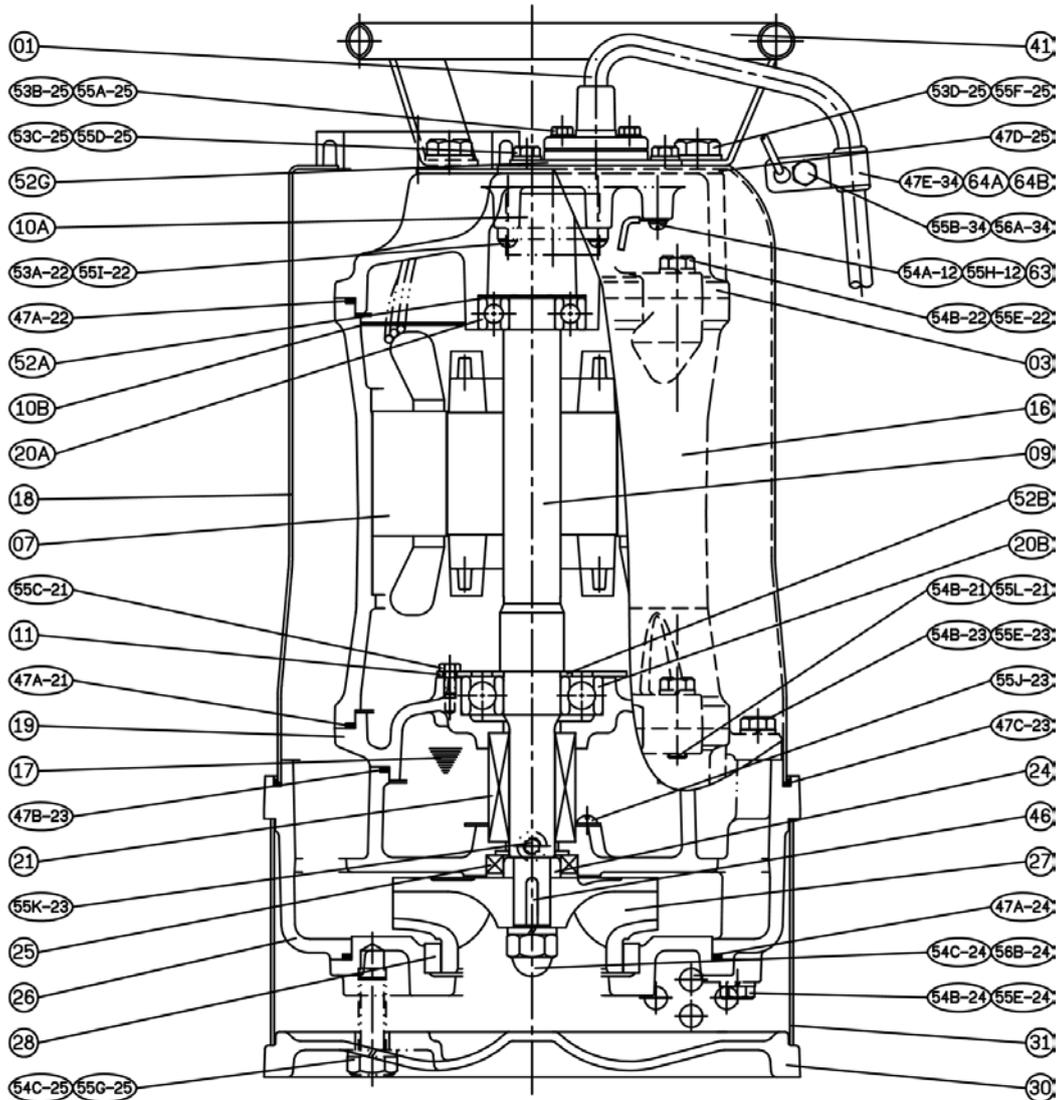
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1

NO.	Part name	Material	QTY
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



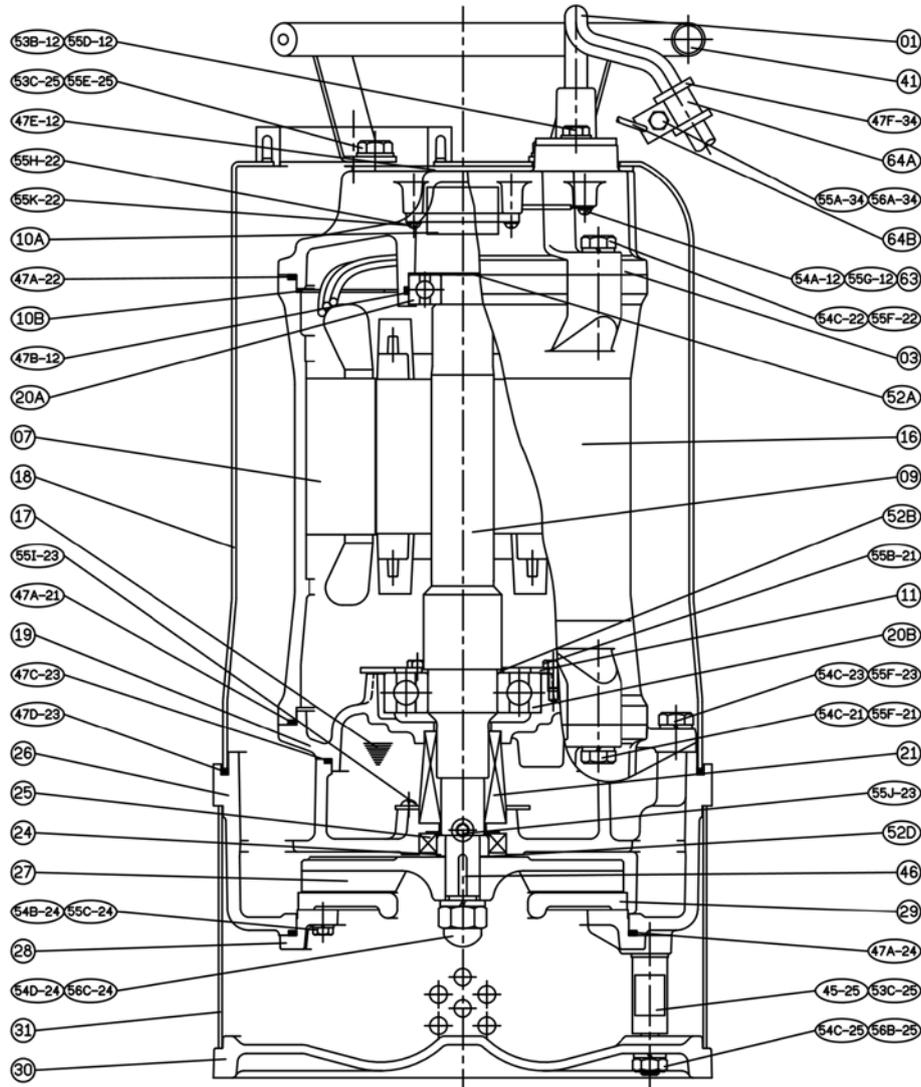
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



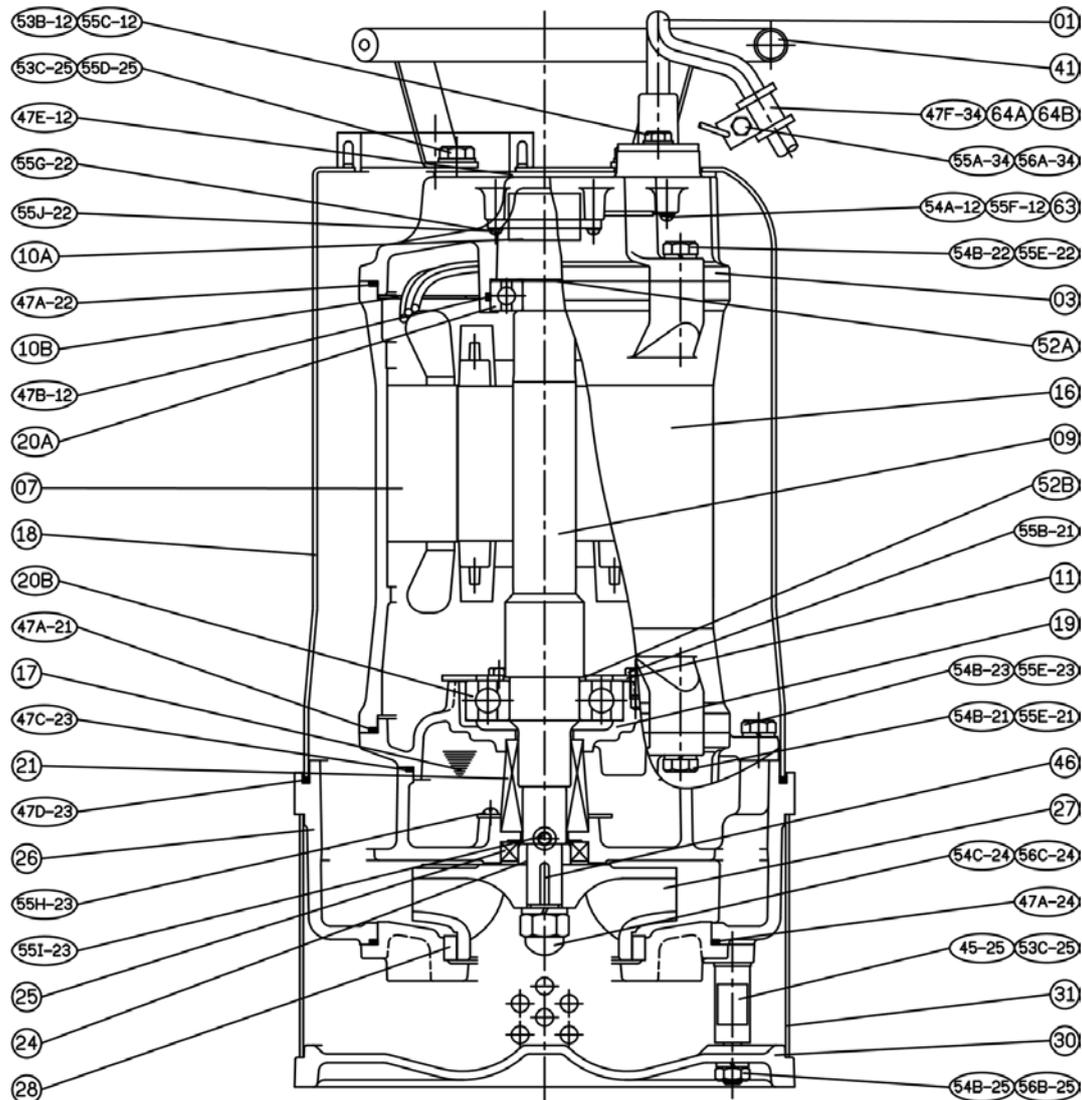
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS304	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



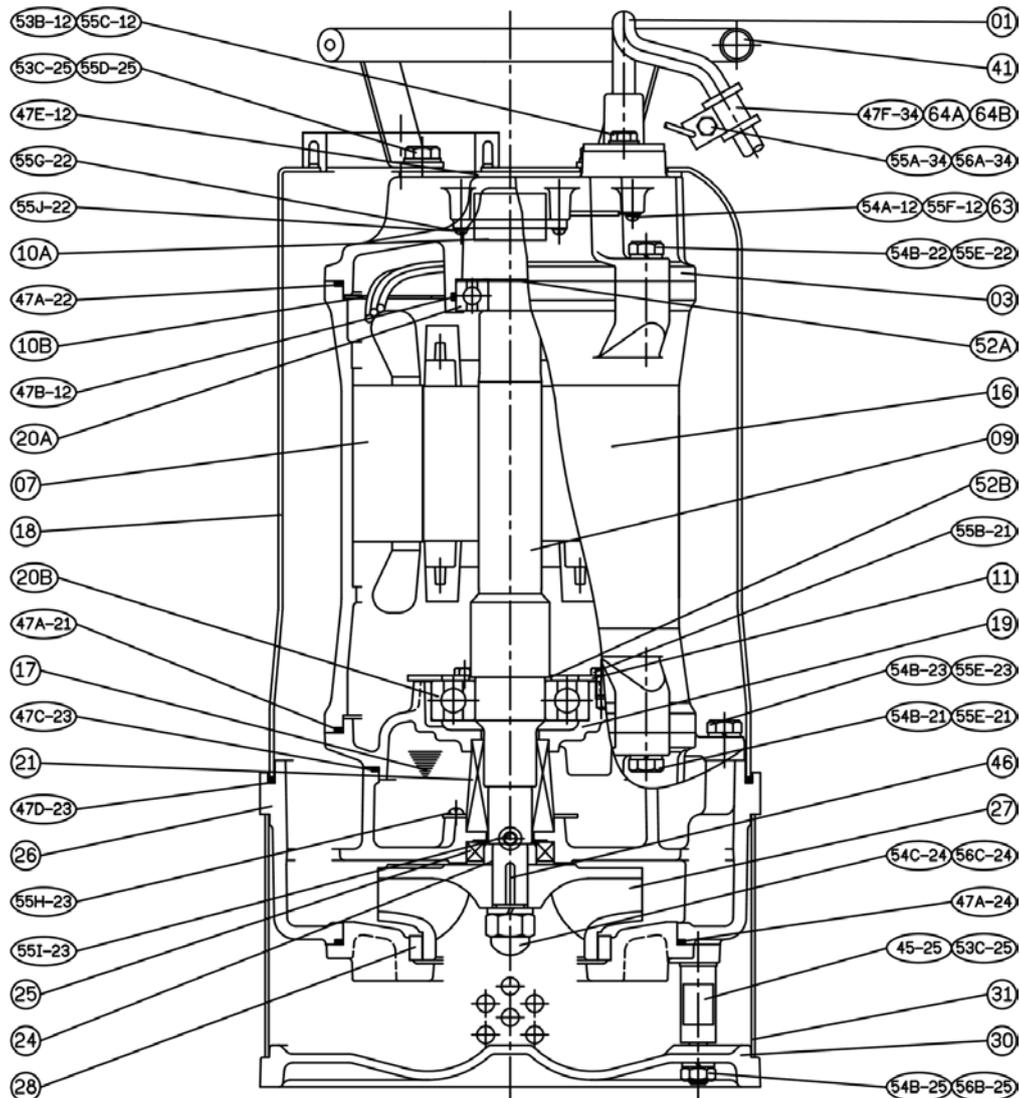
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS304	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover	FC200	1
29	Wear plate	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



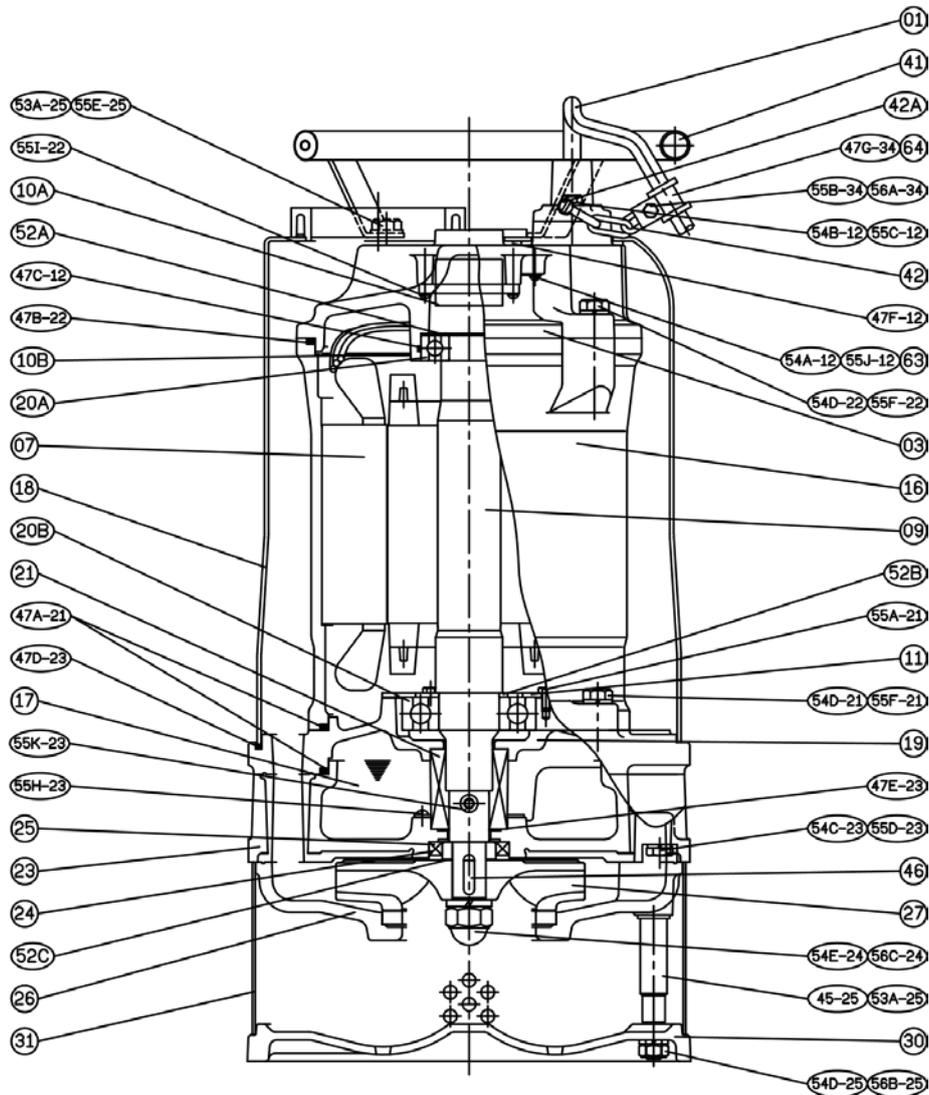
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS304	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



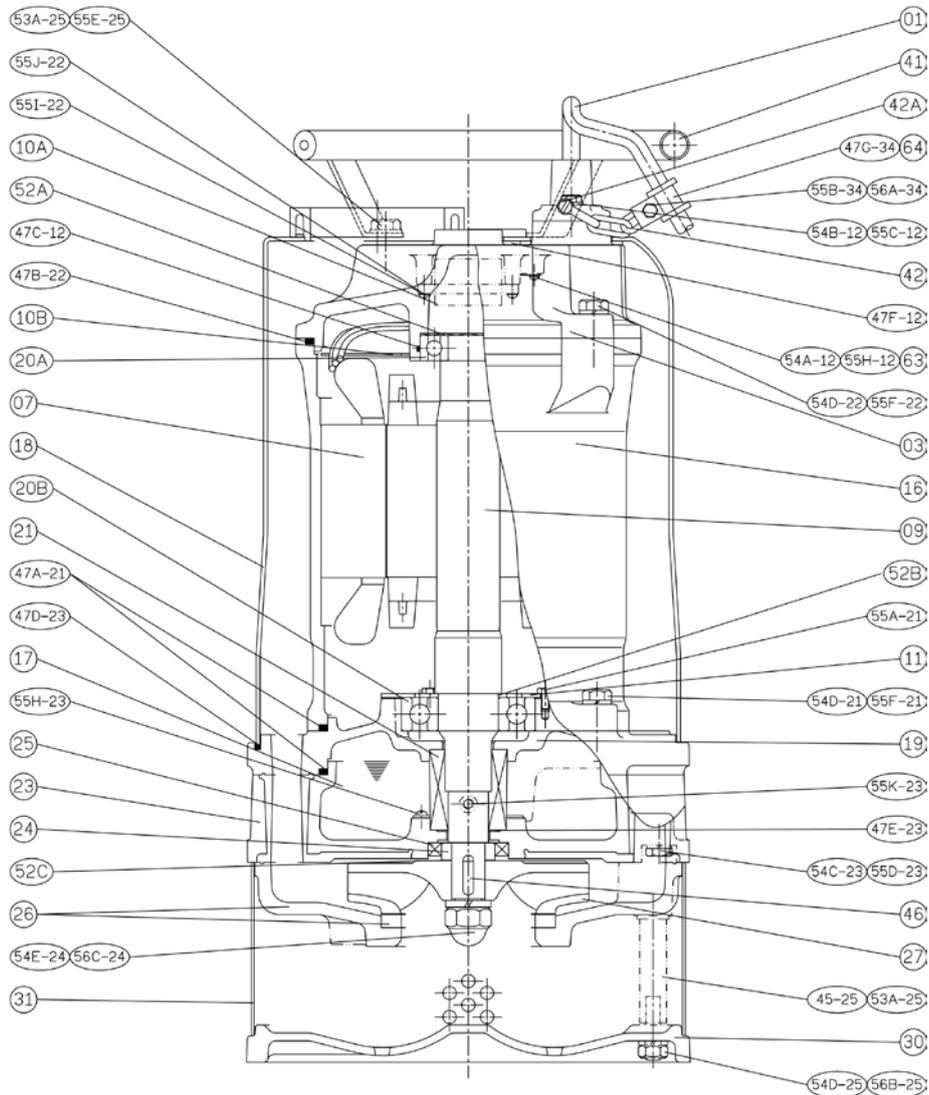
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS304	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing	FC200	1
27	Impeller	HiCrFC	1
28	Casing Cover+Wear Ring	FC200+HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS420J2	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
23	M. Seal Bracket	FC200+EPDM	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing+Wear Plate	FCD500+HiCrFC	1
27	Impeller	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS420J2	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
18	Outer Cover	SUS304	1
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1

NO.	Part name	Material	QTY
23	M. Seal Bracket	FC200+EPDM	1
24	Oil Seal Bush	SUS403	1
25	Oil Seal	SUS304+NBR	1
26	Casing+Wear Plate	FCD500+HiCrFC	1
27	Impeller	HiCrFC	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



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