

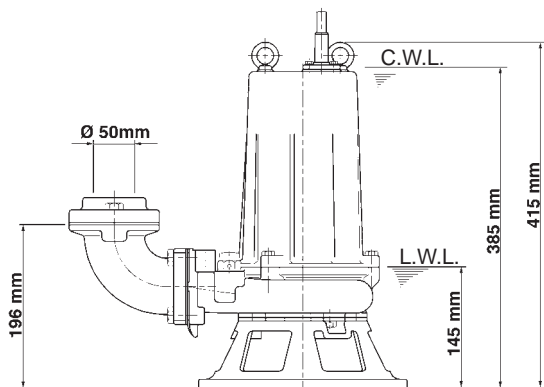
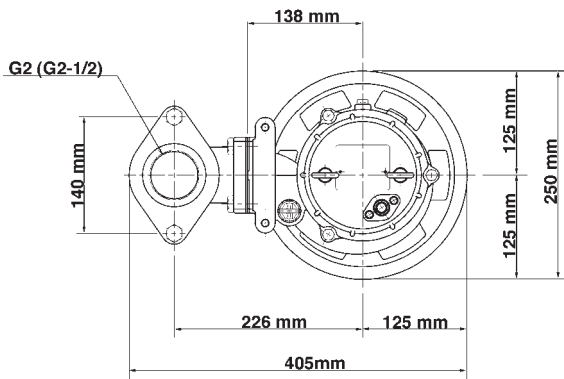


TSURUMI PUMP

50C2.75-53

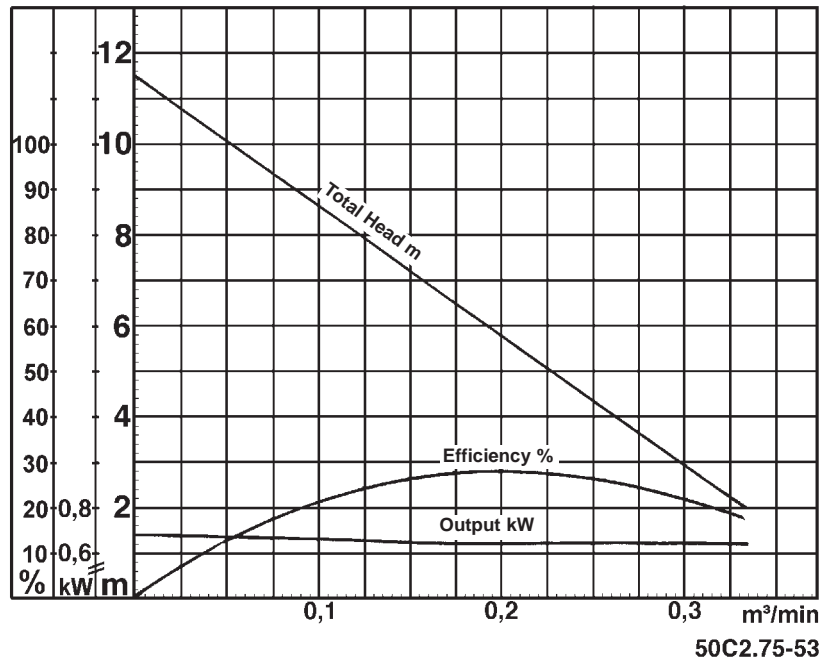
- data sheet
 - parts list
 - exploded view
 - dimensional drawing free standing type
 - dimensional drawing TOS-type
 - sectional drawing free standing type
 - sectional drawing TOS-type
 - performance curve
-
- parts list not available yet

Data Sheet 50C2.75-53



C.W.L. = Continuous running water level
L.W.L. = Lowest running water level

50C2.75-53



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, non-clogging type with cutter mechanism
Impeller passage 21mm
Suitable for waste water and liquids carrying waste and solid matters

Electric Motor

Dry-type submersible induction motor,
Insulation class E, 2 poles, 2810 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 1,10kW
Power output: 0,75kW
Nominal current: 1,9A
Start current: 8,5A

Electric Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

Circle thermal protector
(snap-action bi-metal device)

Shaft Seal

Double mechanical seal in oil bath
additional lubrication by oil lifting device
Primary Seal:
silicon carbide on silicon carbide
Secondary Seal:
silicon carbide on silicon carbide

Bearings

Shielded ball bearings, maintenance-free

Materials

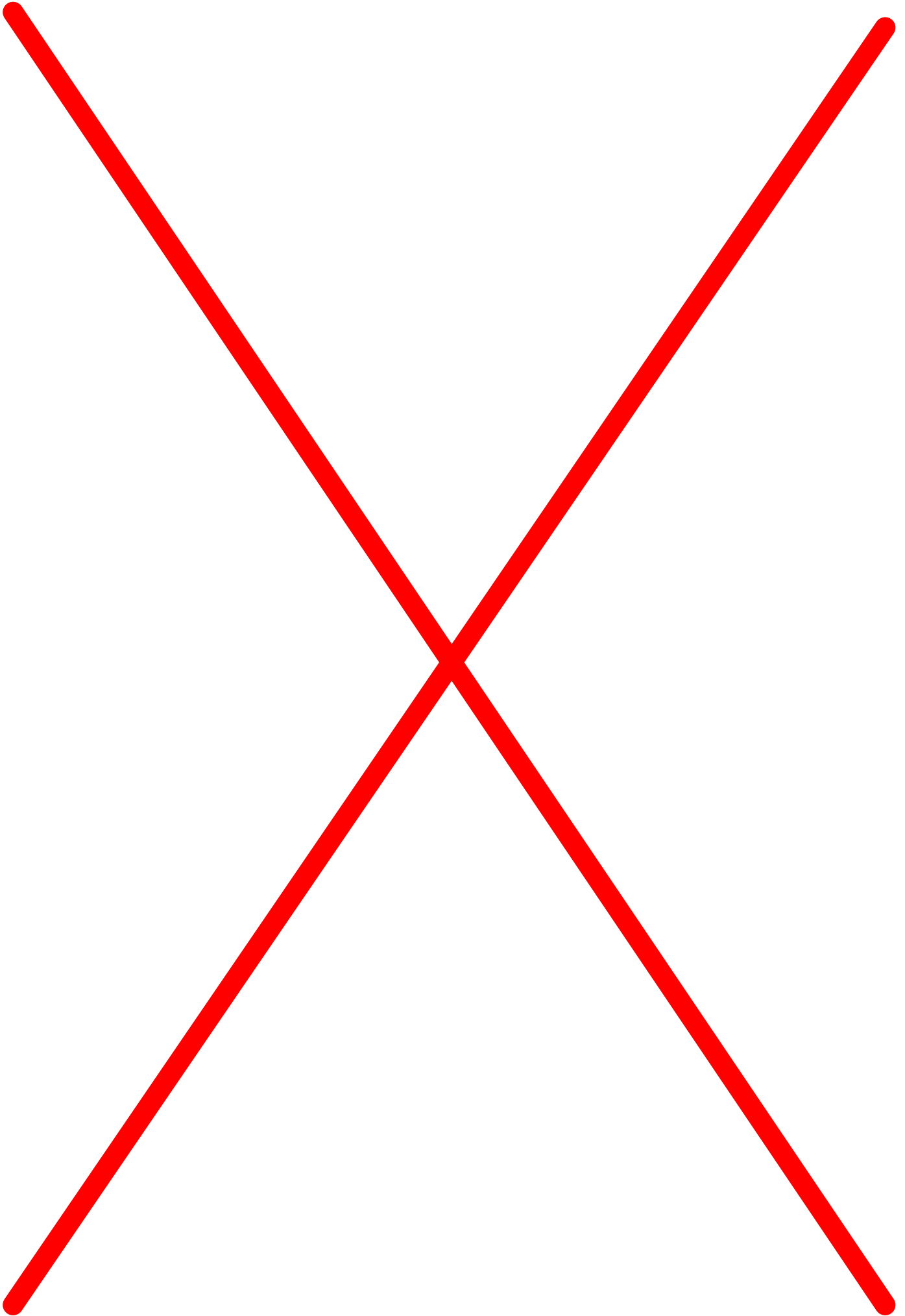
Impeller: FC200 (EN-GJL-200) with sintered tungsten carbide alloy tip
Casing: FC200 (EN-GJL-200)
Suction Cover: FCD700 (EN-GJS-700-2)
Motor frame: FC200 (EN-GJL-200)
Shaft: SUS403 (EN-X6Cr13)

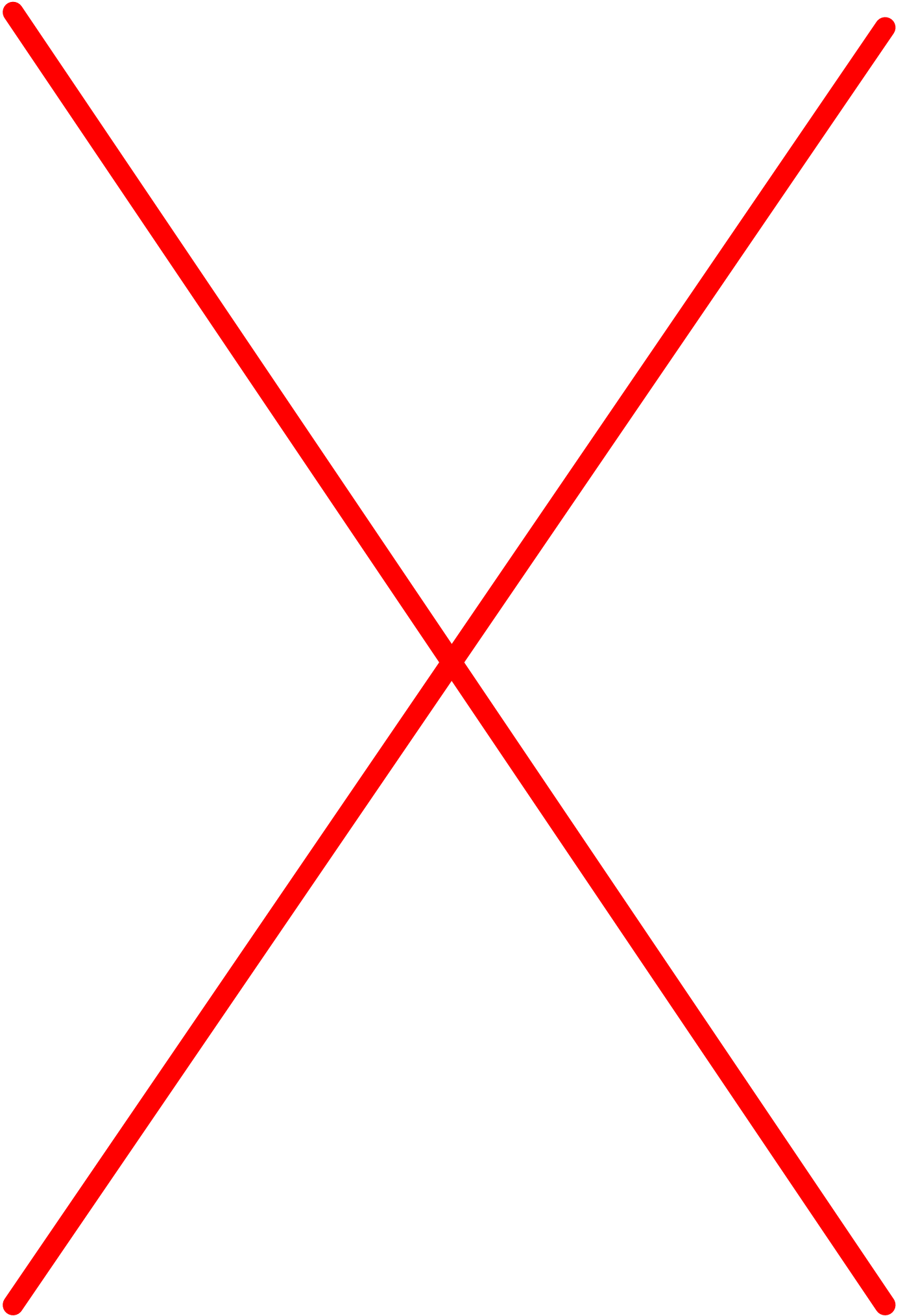
Discharge Connection

2" (50mm) special screwed-in mating flange
Guide rail fitting optional

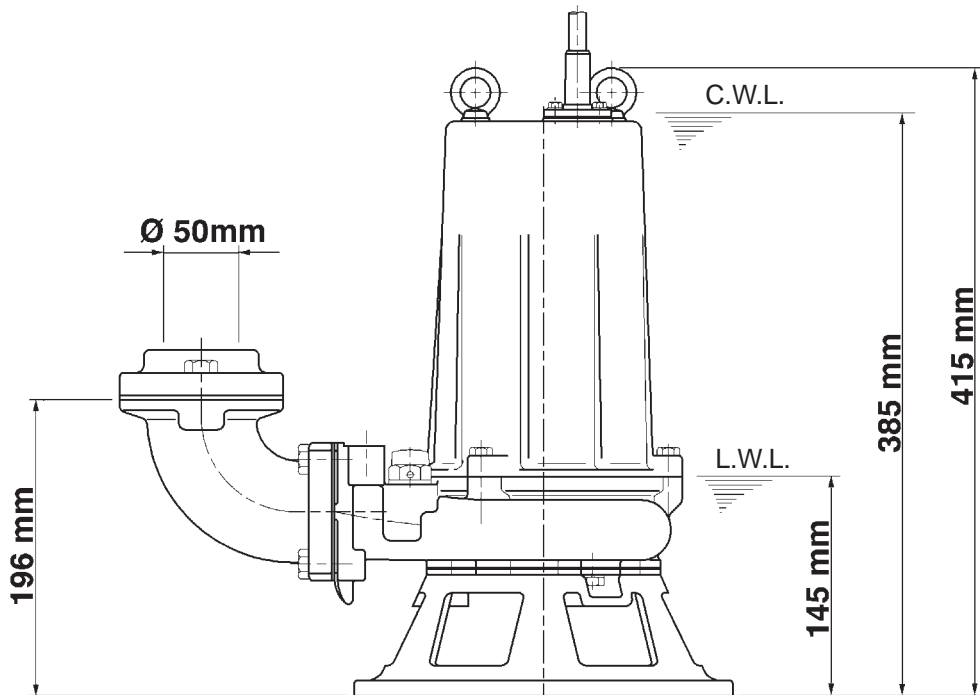
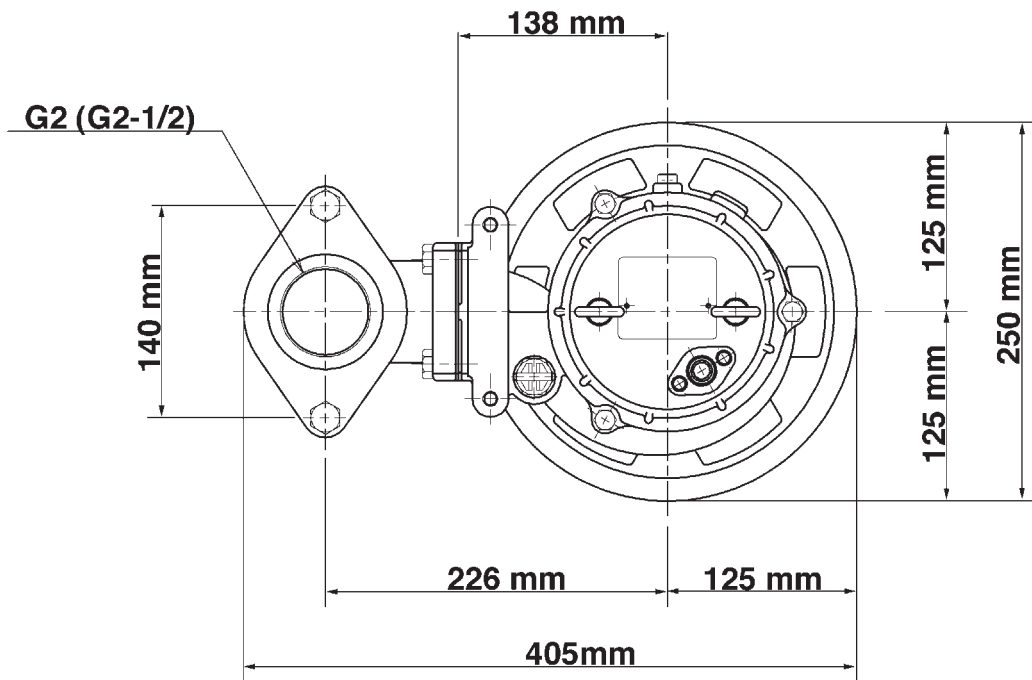
Weight

24 kg (dry weight of the pump without cable)





Dimensional Drawing 50C2.75-53

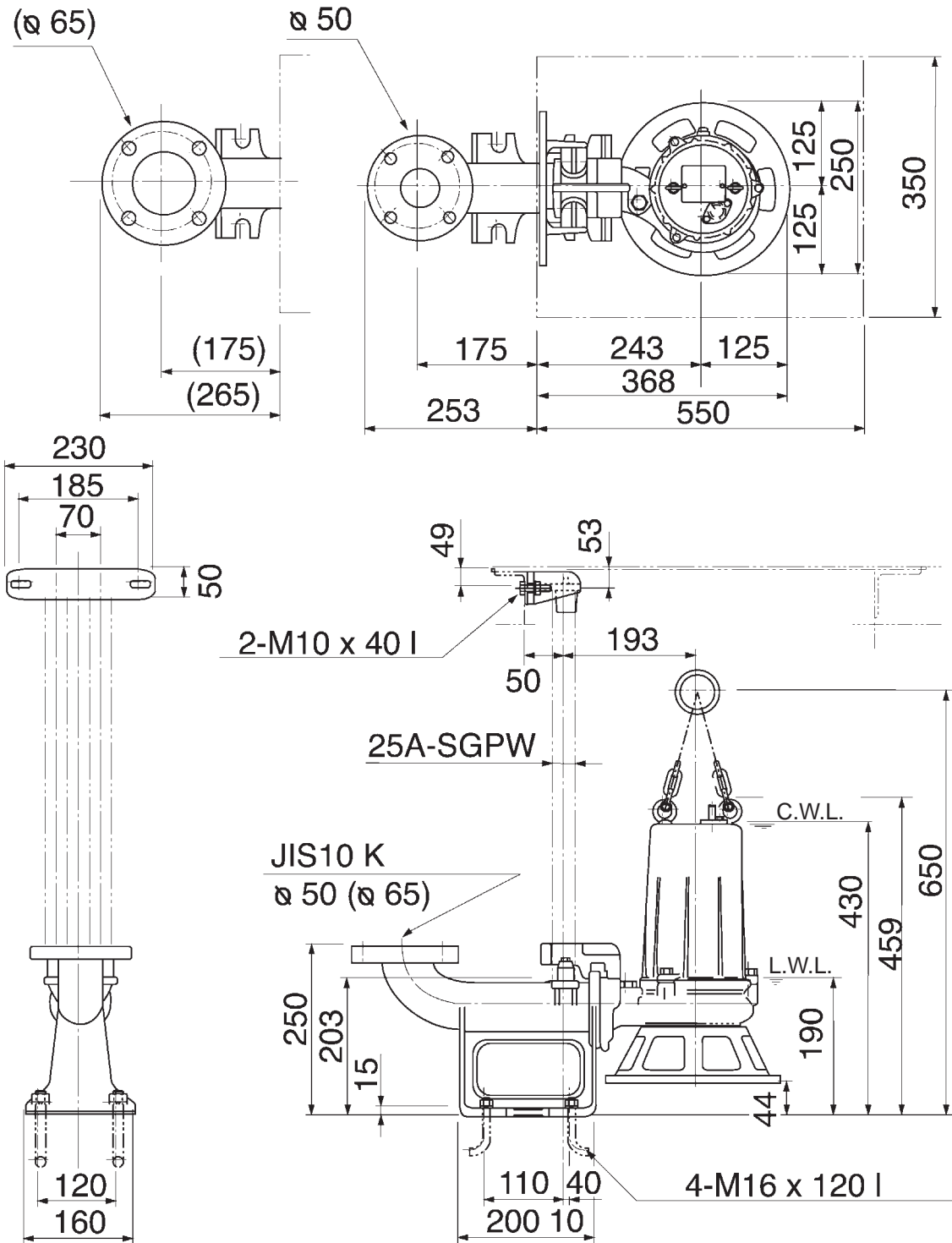


CWL: Continuous Running Water Level
 LWL: Lowest Running Water Level

50C2.75-53

Dimensional Drawing TOS50C2.75-53

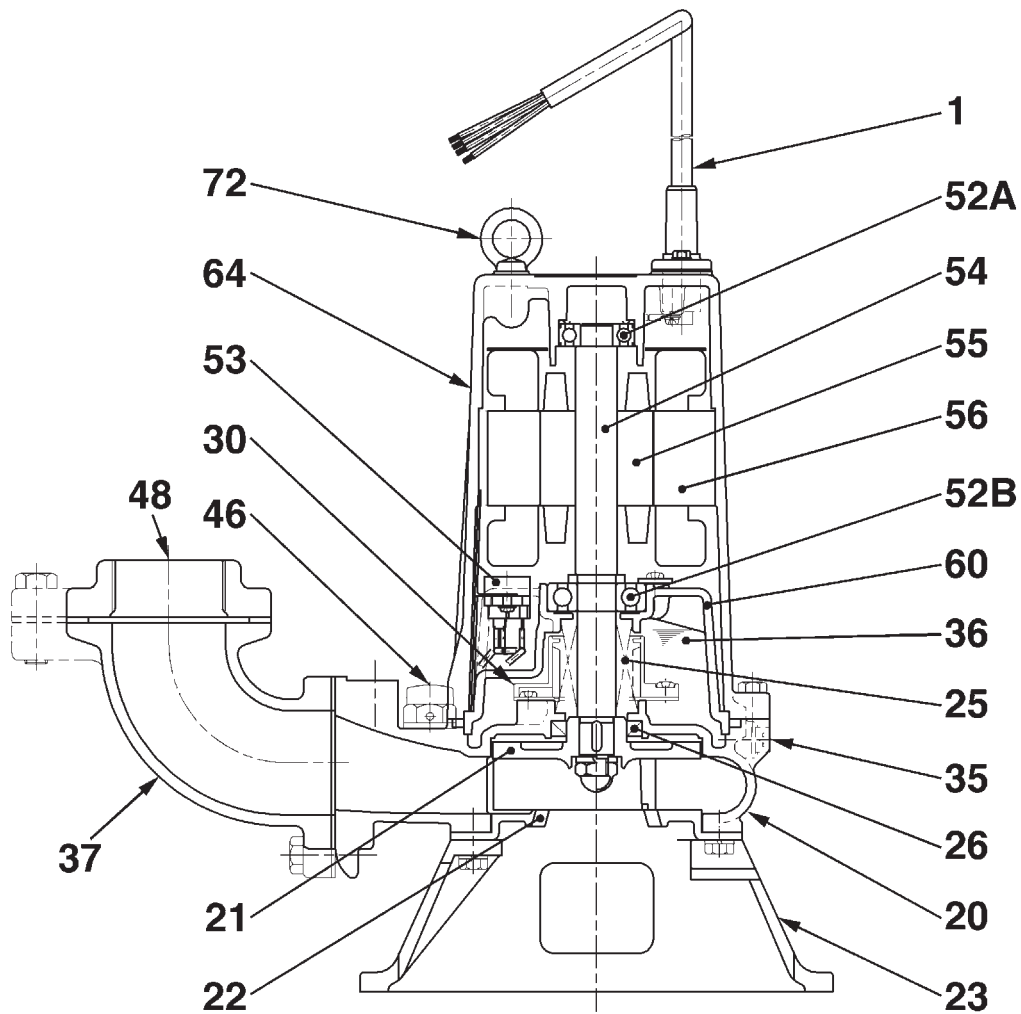
Dimensions in mm



CWL: Continuous Running Water Level
LWL: Lowest Running Water Level

50C2.75-53

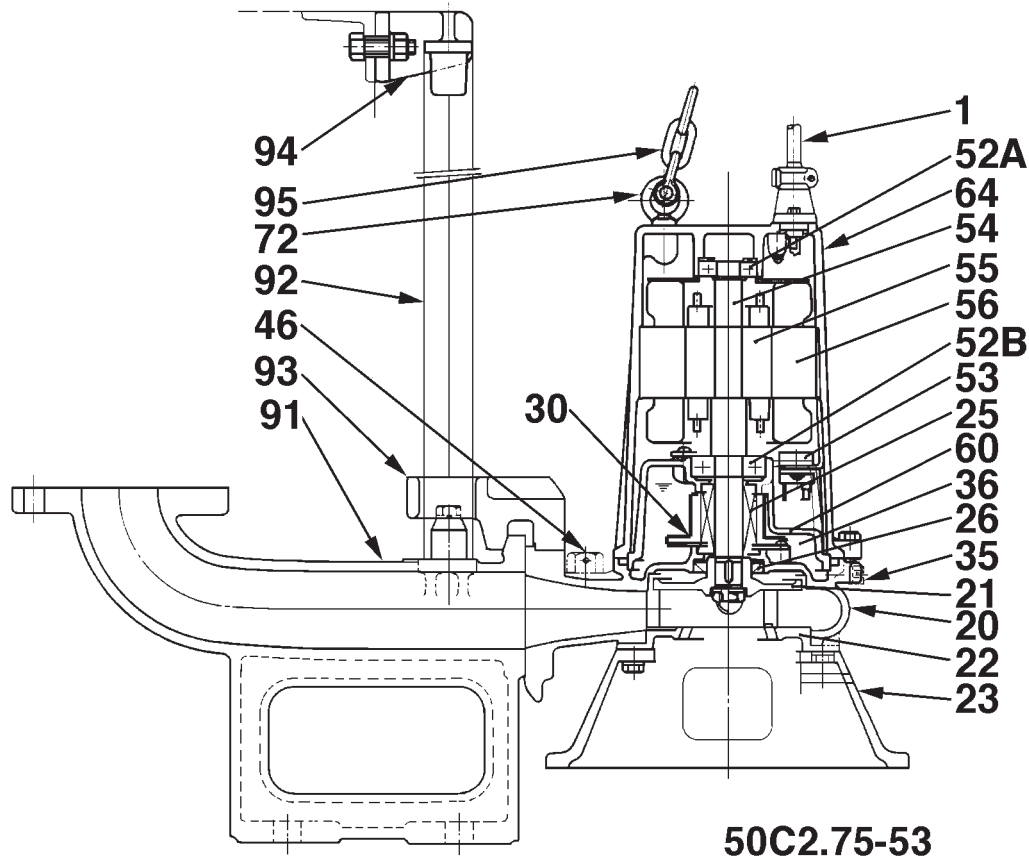
Sectional Drawing 50C2.75-53



50C2.75-53

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	52B	Lower Bearing	1	6304ZZC3
20	Pump Casing	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
21	Impeller	1	FC200 (EN-GJL-200)+Tungsten Carbide	54	Shaft	1	SUS403 (EN-X6Cr13)
22	Suction Cover	1	FCD700 (EN-GJS-700-2)	55	Rotor	1	
23	Stand	1	FCD450 (EN-GJS-450)	56	Stator Complete	1	
25	Mechanical Seal	1	H-20A	60	Bearing Housing	1	FC200 (EN-GJL-200)
26	Oil Seal	1	TC32488	64	Motor Frame		FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	72	Eye Bolt	1	SUS304 (EN-X5CrNi18-10)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)				
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	FC200 (EN-GJL-200)				
46	Air Release Valve	1	Nylon				
48	Screw Flange	1	FC200 (EN-GJL-200)				
52A	Upper Bearing	1	6203ZZC3				

Sectional Drawing TOS50C2.75-53

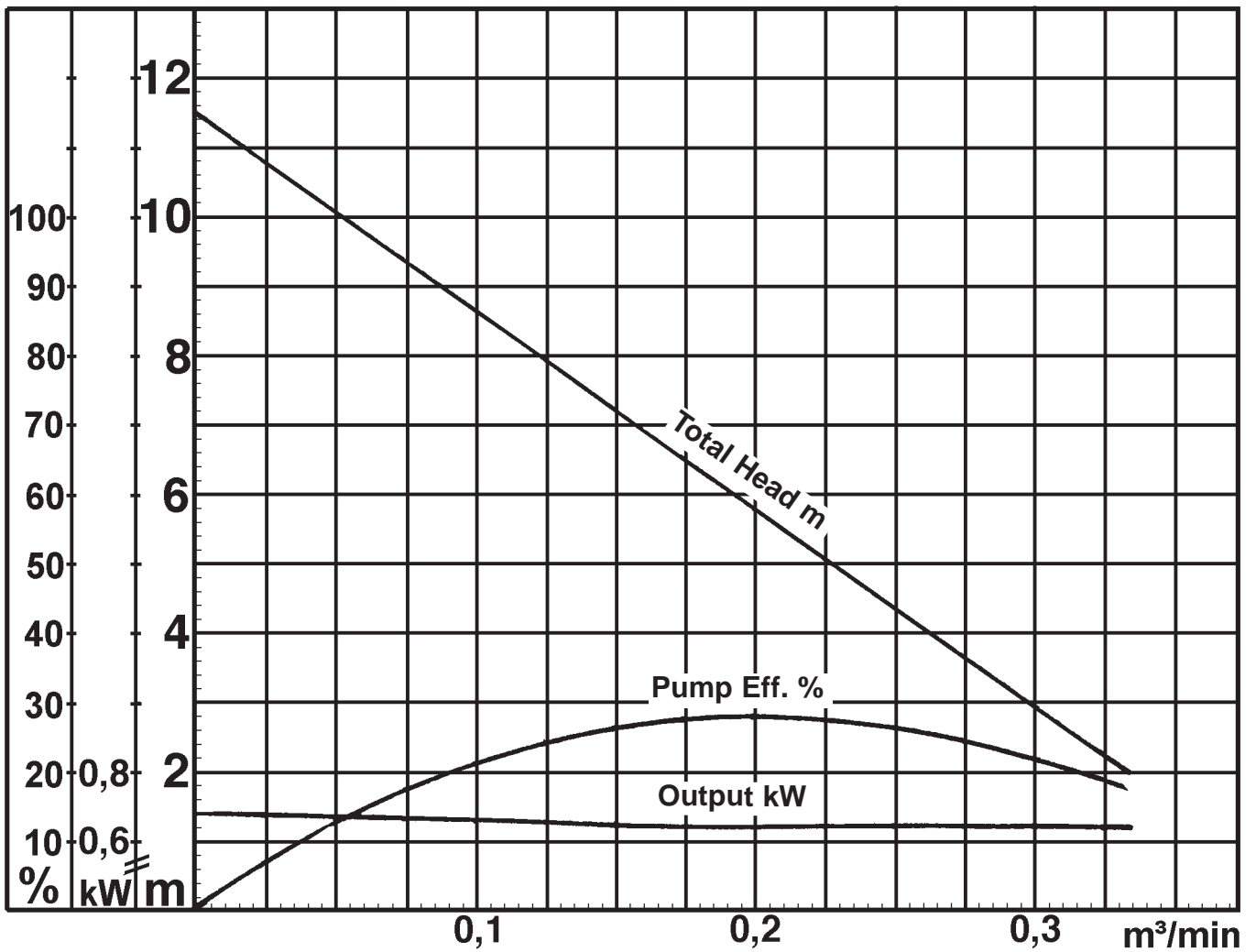


No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	54	Shaft	1	SUS403 (EN-X6Cr13)
20	Pump Casing	1	FC200 (EN-GJL-200)	55	Rotor	1	
21	Impeller	1	FC200 (EN-GJL-200)+Tungsten Carbide	56	Stator Complete	1	
22	Suction Cover	1	FCD700 (EN-GJS-700-2)	60	Bearing Housing	1	FC200 (EN-GJL-200)
23	Stand	1	FCD450 (EN-GJS-450-10)	64	Motor Frame	1	FC200 (EN-GJL-200)
25	Mechanical Seal	1	H-20A	72	Lifting Eye Bolt	2	SS400 (DIN 1.0040)
26	Oil Seal	1	TC32488	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	92	Guide Pipe (Option)	2	Galvanized Steel Pipe
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
36	Lubricant		Turbine Oil (ISO VG32)	94	Guide Support	1	FCD450 (EN-GJS-450-10)
46	Air Release Valve	1	Nylon	95	Lifting Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6203ZZC3				
52B	Lower Bearing	1	6304ZZC3				
53	Motor Protector	1					

Pump Performance Curve

50C2.75-53

Discharge Bore	50 mm
Total Head	3,0 m
Capacity	0,30 m ³ /min
Motor Output	0,75 kW
Motor Input	1,10 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	1,9 A
Starting Current	8,5 A
Poles	2
Revolution	S.S. 2810 r.p.m.
Starting Method	direct on line
Insulation Class	E



50C2.75-53