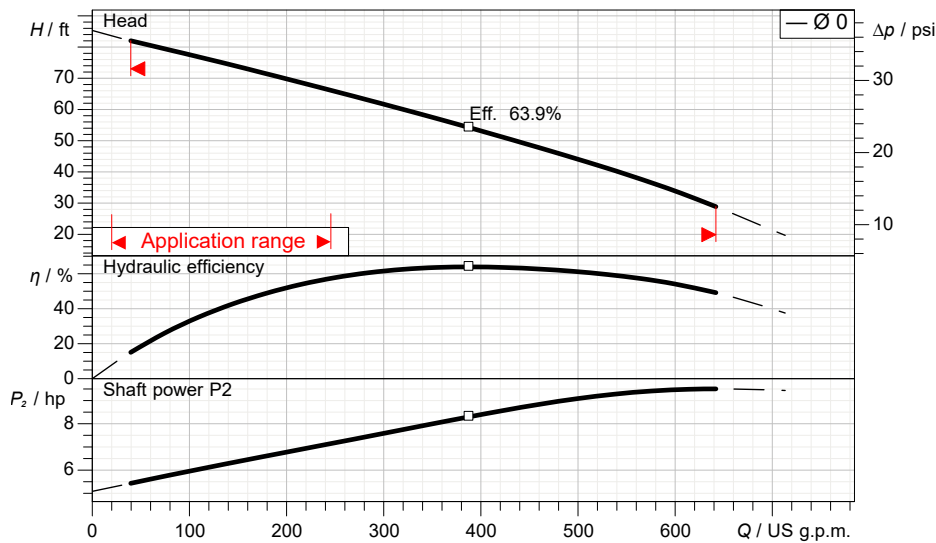


Technical specification

3~ 60 Hz


Characteristic curves according to UNI EN ISO 9906:2012
 P2<10kW: paragraph 4.2. 10kW<P2<100kW: Grade 3B, P2>100kW: Grade 2E
 for pumps with standard material combination
 Pump performance is based on tests conducted with clean water at 20 °C.

Pump

Series	BN
Pump name	100BN47.5-61
Standard	cETLus

Motor data

Motor	CT1-4-7.5-SC UL
Rated voltage	208-230/460/575 V
Frequency	60 Hz
Motor phases	3~
Number of poles	4
Rated power P2	10.00 hp
Rated current	29.8-28.0/10.4/8.3 A
rpm	1735 rpm
Rated torque	30.3 lbf ft
Start*	Direct starting

Degree of protection	IP 68
Insulation class	F
Protection device	Circle thermal protector
Type of oil	Turbine oil VG32
Oil amount	142.0 oz

Hydraulic

Free passage	1.38in/35mm
Impeller type	Channel impeller with Cutting mechanism
Max. hydraulic efficiency	63.9 %
Discharge	4 inch
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. liquid temperature	104 °F
Max. density treated liquid	64.3 lb/ft³
pH treated liquid	5-9
Recommended Max. start per hour(equally distributed)	10
Wet/dry use	WET
Operating mode	S1

Construction materials

Motor enclosure	Gray Iron Casting 200
Shaft	420J2 Stainless Steel
Pump Casing	Gray Iron Casting 250
Impeller	Ductile Iron Casting 500
Suction Cover	Ductile Iron Casting 500
Suction plate	N/A
Painting	Epoxy paint (Black)
Screws	304 Stainless Steel
Gaskets	NBR

Construction features

Power cable1	4Cx10AWG
Power cable2	N/A
Sheath	2PNCT
Control cable	N/A
Sheath	N/A
Cable length*	32.81 ft
Mechanical seals	Dual SiC
Pump weight**	383.6 lb
* Please inquire about cable extensions	
** cable's weight not included	

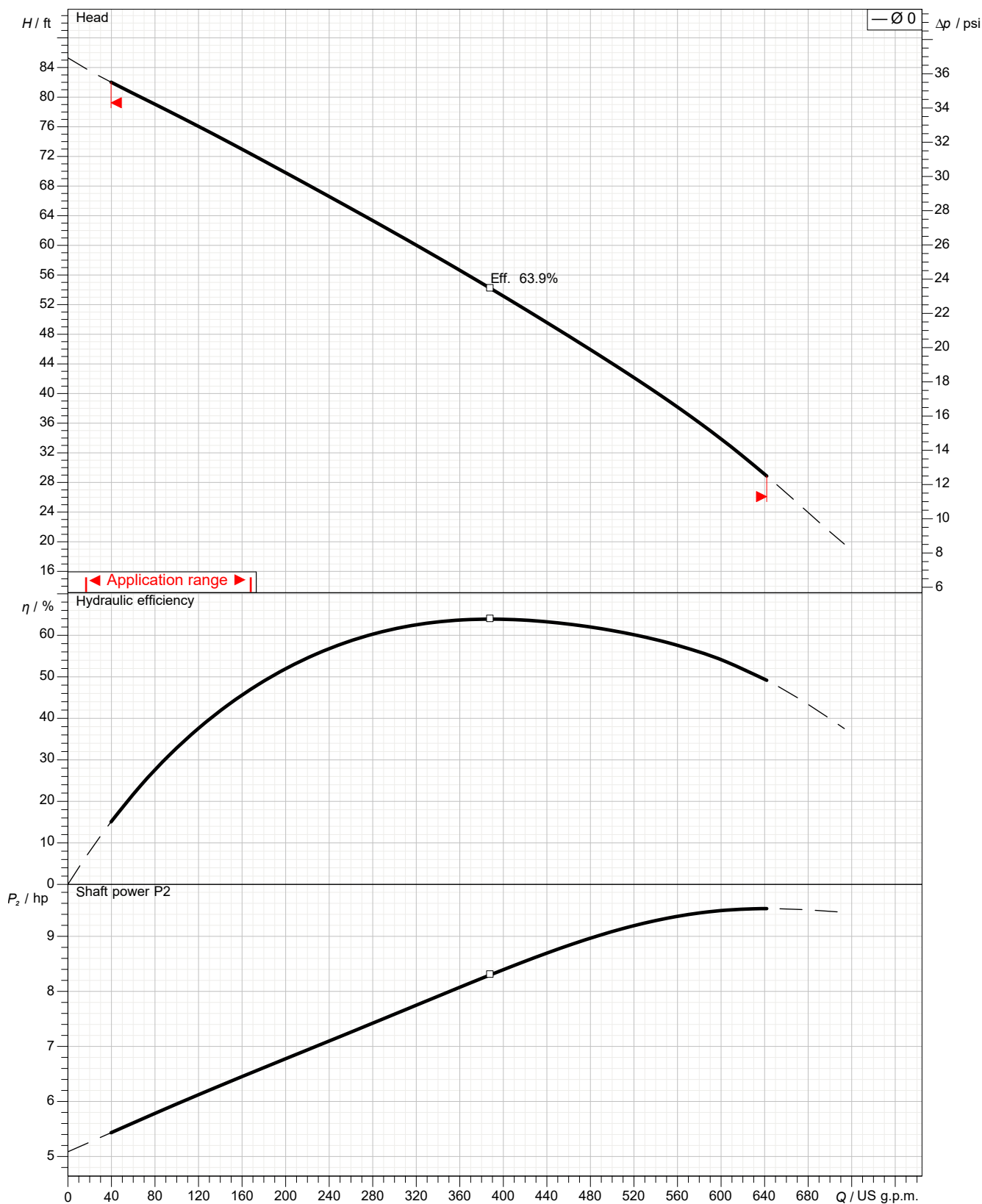
Monitoring features

Leakage sensor - N/A

Pump performance curves

3 ~ 60 Hz

Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
4 inch			10.0 hp	208-230/460/575 V	29.8-28.0/14.0/11.5 A	1735 rpm



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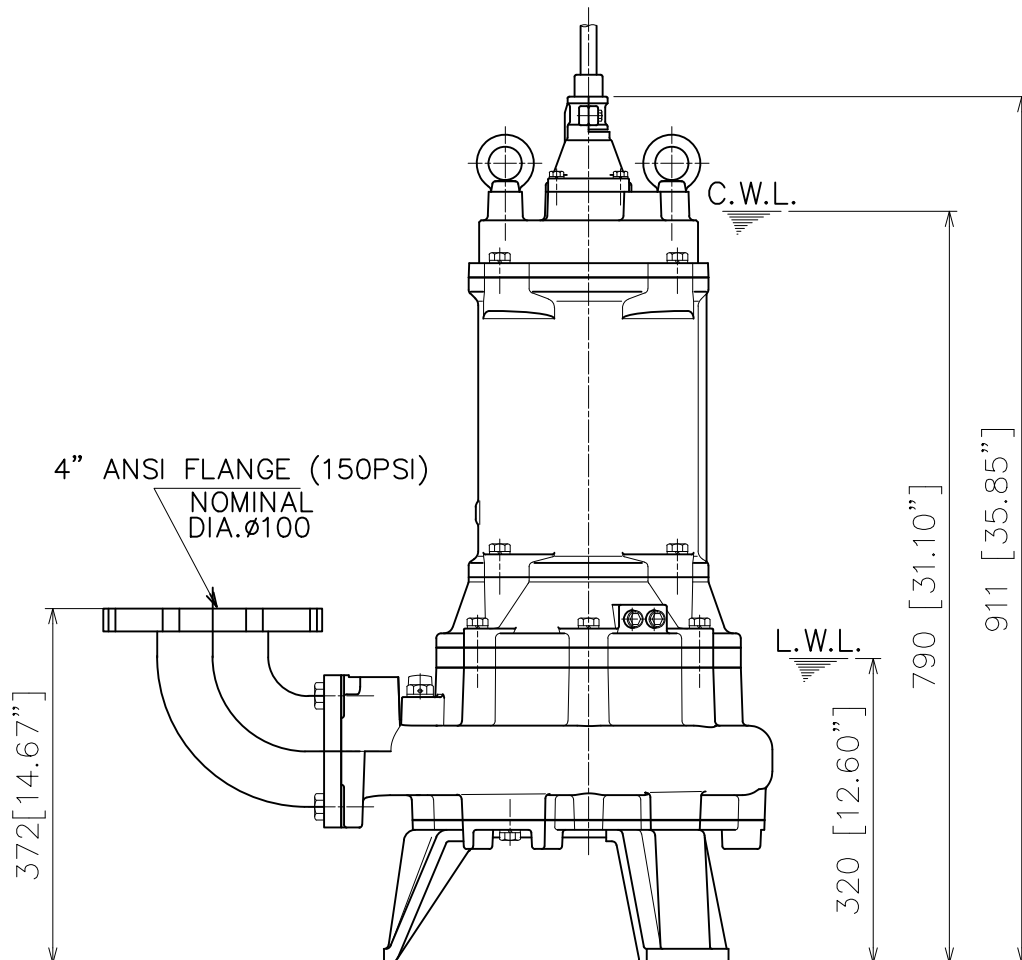
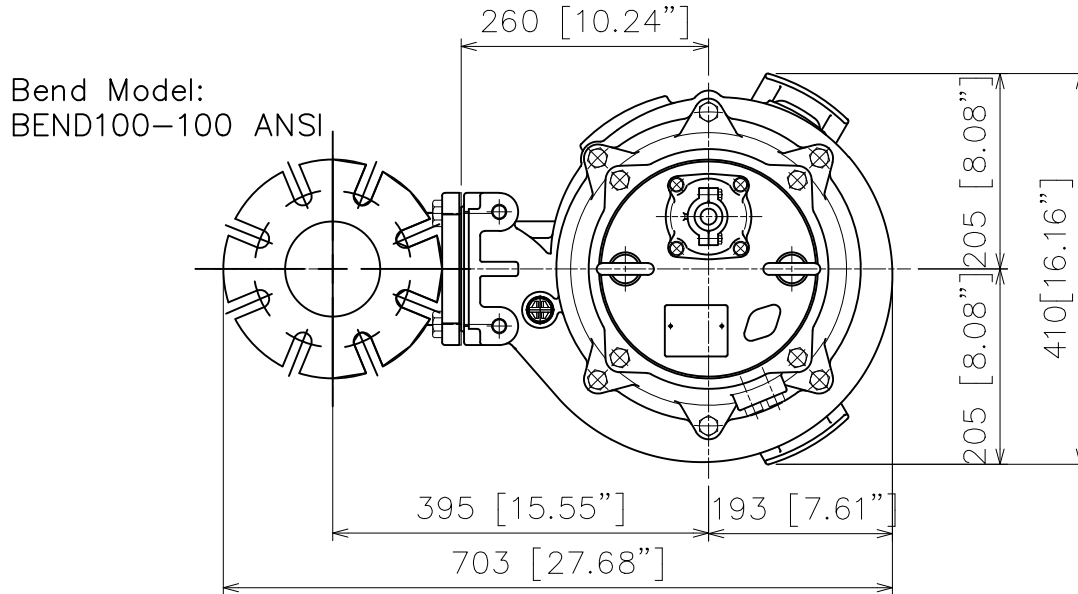
created on: 2026-08-12

All data shown are not binding. Tsurumi reserves the right to change data and dimensions without notice.

DIMENSION DRAWING No.		No.	A-31962-16US
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100BN47.5 -61

Approximate Weight(※)
384lbs

※excluding
cable



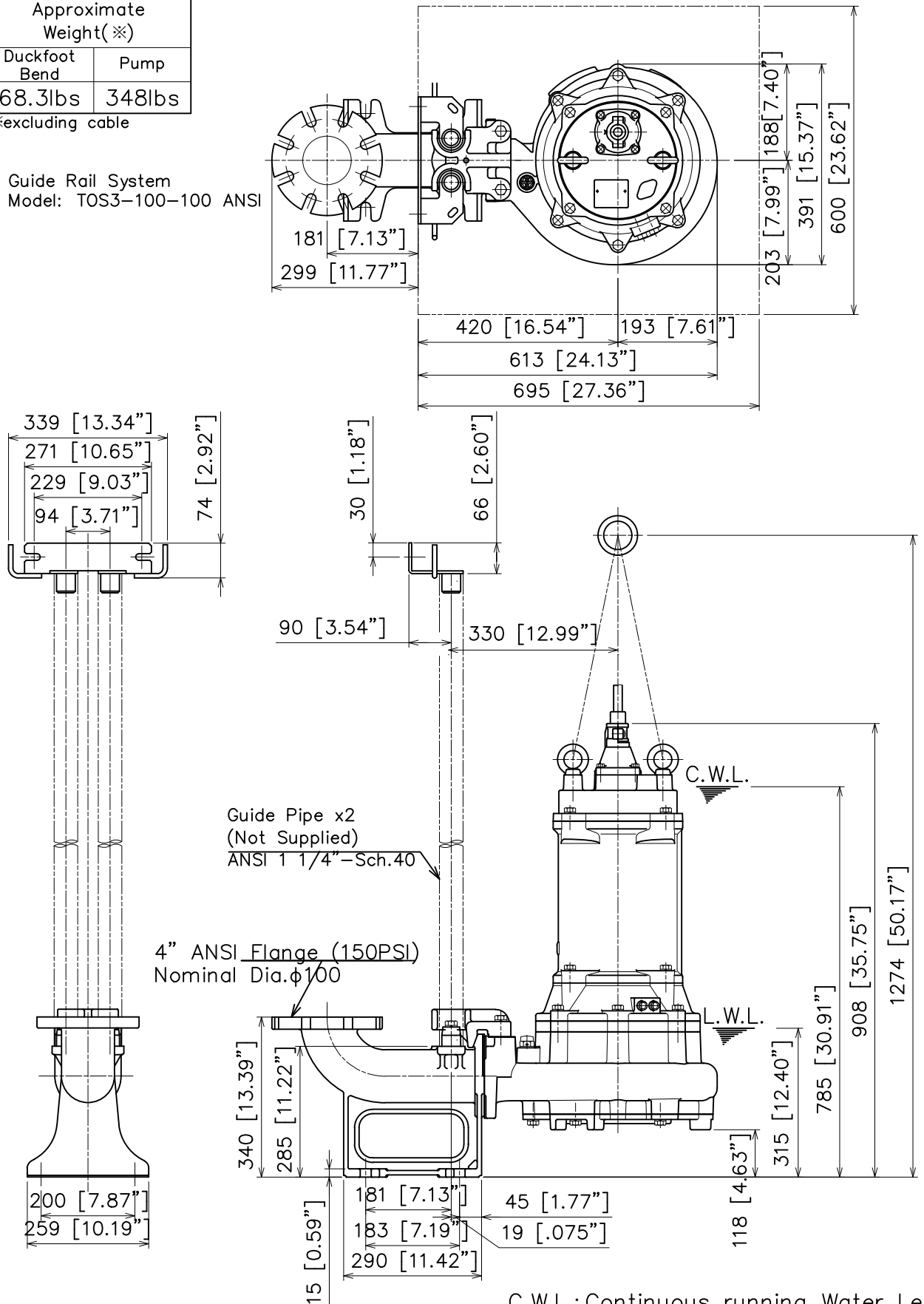
C.W.L.: Continuous running Water Level
L.W.L.: Lowest running Water Level

DIMENSION DRAWING No.		No.	A-31976-16US
TYPE	Submersible Sewage & Wastewater Pump	MODEL	TOS100BN47.5 -61

Approximate Weight(※)	
Duckfoot Bend	Pump
68.3lbs	348lbs

※excluding cable

Guide Rail System
Model: TOS3-100-100 ANSI

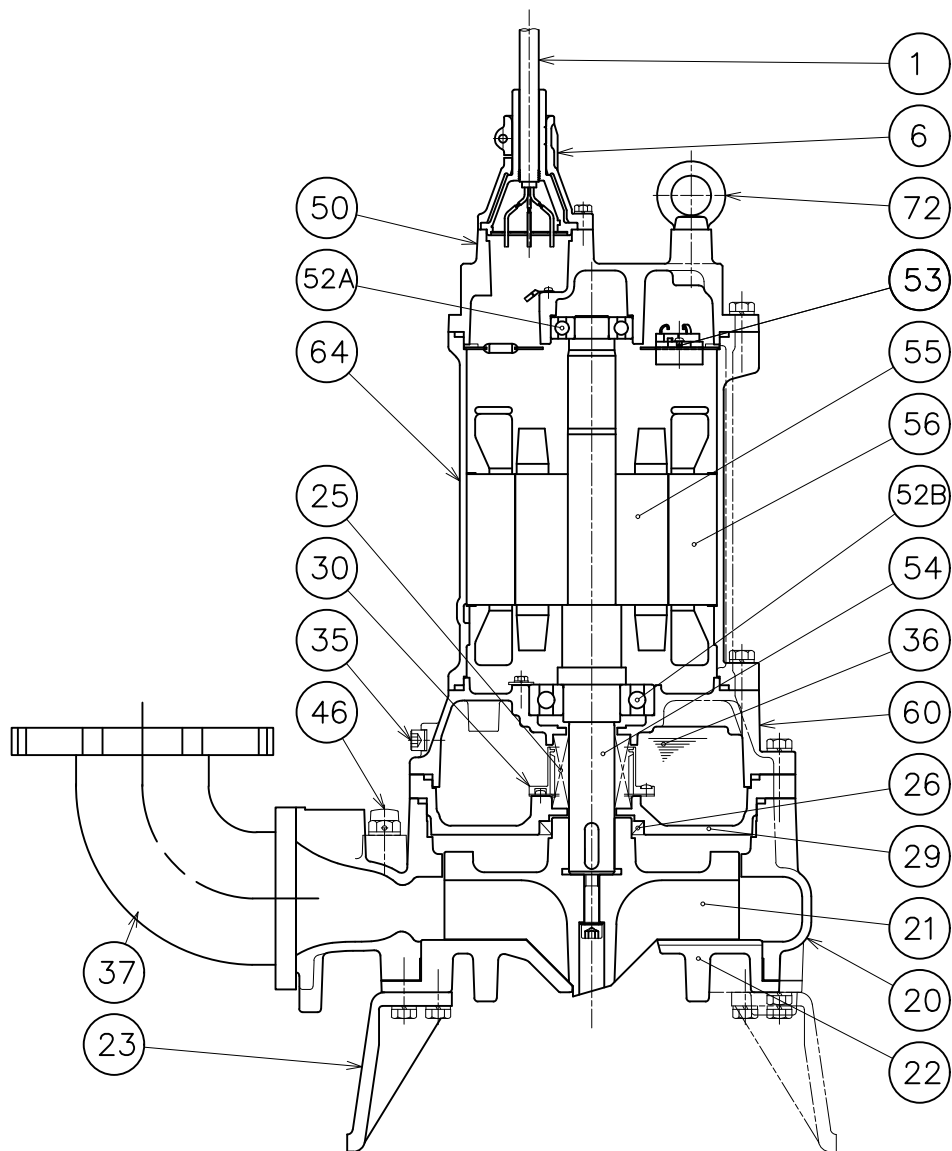


C.W.L.: Continuous running Water Level
L.W.L.: Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit: mm

SECTIONAL DRAWING No.			No.	A-31969-16US
TYPE Submersible Sewage & Wastewater Pump		MODEL 100BN47.5 -61		



REQ.SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	Chloroprene Sheath	46	Air Release Valve	1	Nylon
6	Stuffing Box	1	Gray Iron Casting 200	50	Motor Bracket	1	Gray Iron Casting 200
20	Pump Casing	1	Gray Iron Casting 250	52A	Upper Bearing	1	HCC Steel (6306ZZC3)
21	Impeller	1	Ductile Iron Casting 500	52B	Lower Bearing	2	HCC Steel (6310ZZC3)
22	Suction Cover	1	Ductile Iron Casting 500	53	Motor Protector	1	
23	Stand	3	Gray Iron Casting 200	54	Shaft	1	420J2 Stainless Steel
25	Mechanical Seal	1	Silicon Carbide (H-40X)	55	Rotor	1	
26	Oil Seal	1	Nitrile (TC709212)	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting 250	60	Bearing Housing	1	Gray Iron Casting 200
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting 200
35	Oil Plug	2	304 Stainless Steel	72	Eyebolt	2	304 Stainless Steel
36	Lubricant		Turbine Oil(ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting 200				

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