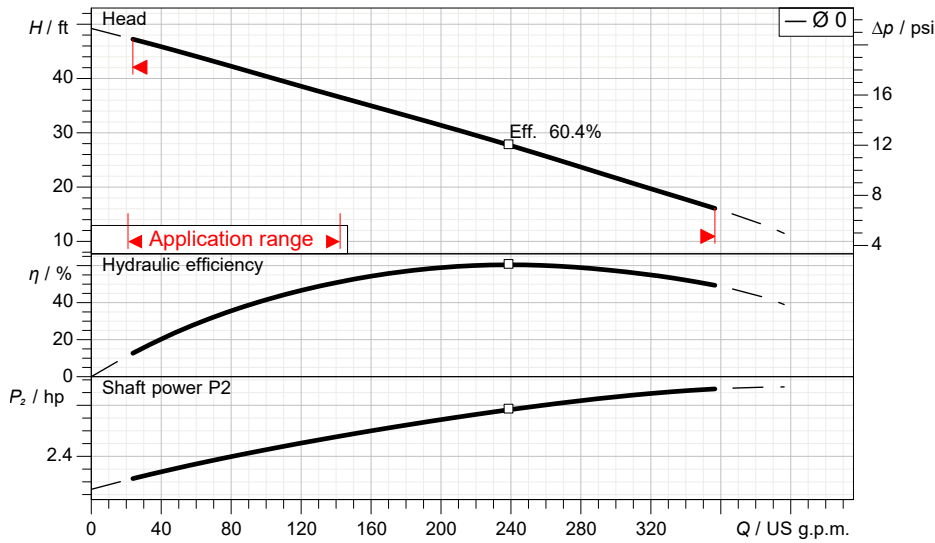


Technical specification

3~ 60 Hz


Pump

Series	BN
Pump name	100BN42.2-61
Standard	cETLus

Motor data

Motor	JT1-4-2.2-U DUL
Rated voltage	208-230/460/575 V
Frequency	60 Hz
Motor phases	3~
Number of poles	4
Rated power P2	3.00 hp
Rated current	10.7-10.0/5.0/4.0A
rpm	1724 rpm
Rated torque	9.2 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	42.3 oz

Hydraulic

Free passage	1.18in/30mm
Impeller type	Channel impeller with Cutting mechanism
Max. hydraulic efficiency	60.4 %
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	4Cx14AWG
Power cable2	N/A
Sheath	VCT
Control cable	N/A
Sheath	N/A
Cable length*	32.81 ft
Mechanical seals	Dual SiC
Pump weight**	178.6 lb

* Please inquire about cable extensions
 ** cable's weight not included

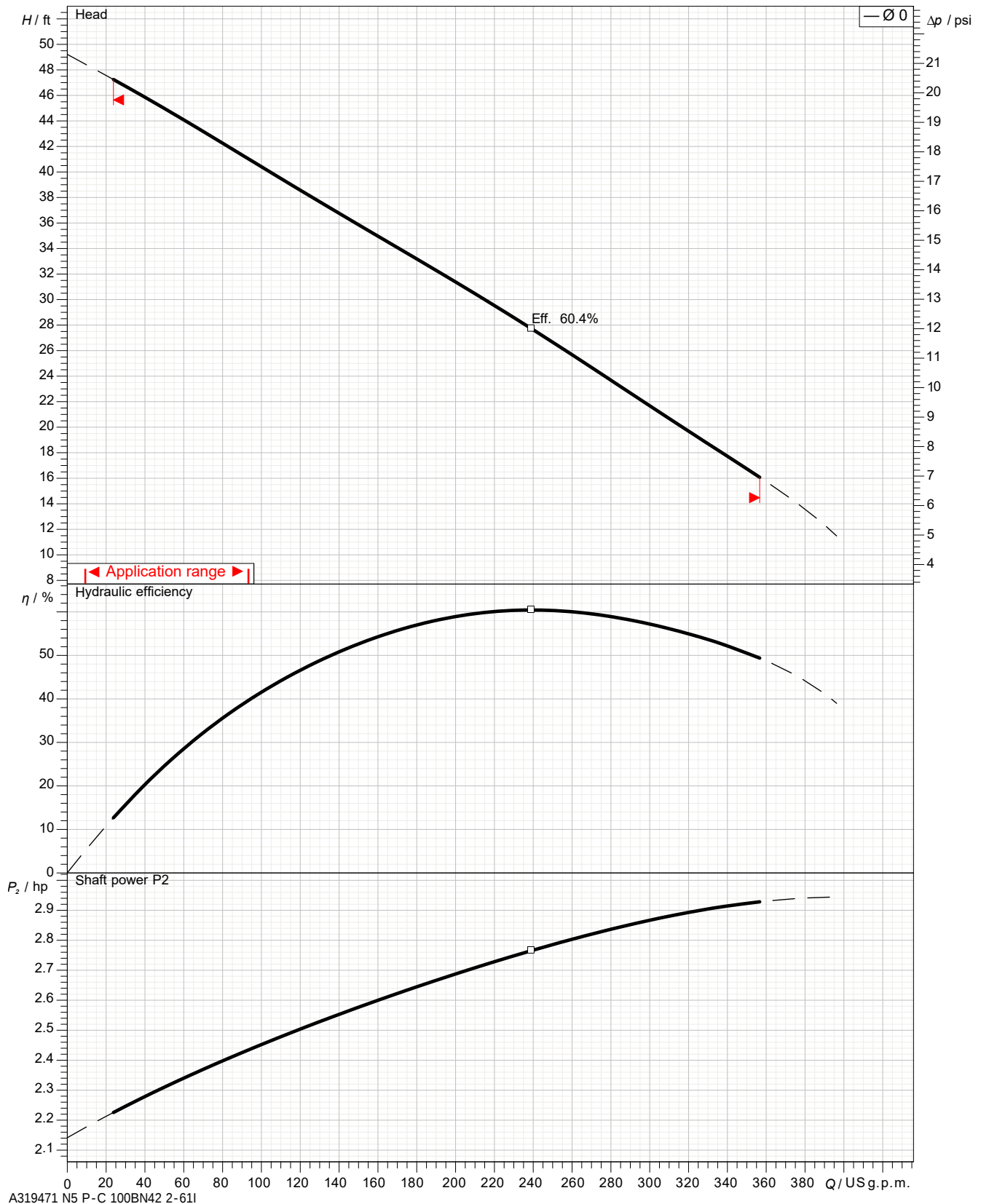
Monitoring features

Leakage sensor - N/A

Pump performance curves

3 ~ 60 Hz

Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
4 inch			3.0 hp	208-230/460/575 V	10.7-10.0/5.0/4.0A	1724rpm



Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination
P2<10kW: paragraph 4.4.2, 10kW<P2<100kW: Grade 3B, P2>100kW: Grade 2B
Pump performance is based on tests conducted with clean water at 20 °C.

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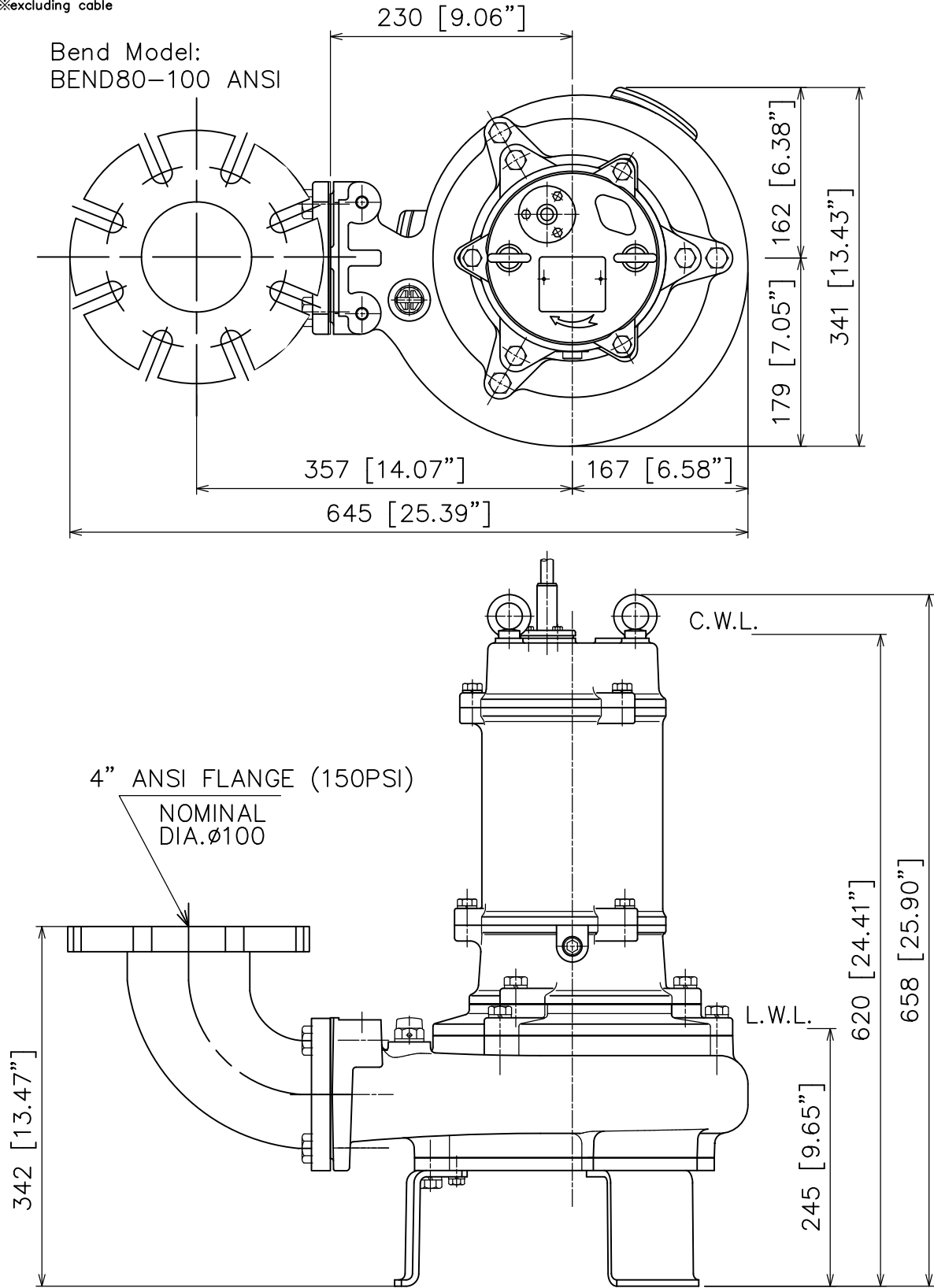
Created on: 2026-08-12

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

DIMENSION DRAWING No.		No.	A-31959-16US
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100BN42.2 -61

Approximate Weight(※)
179lbs

※excluding cable

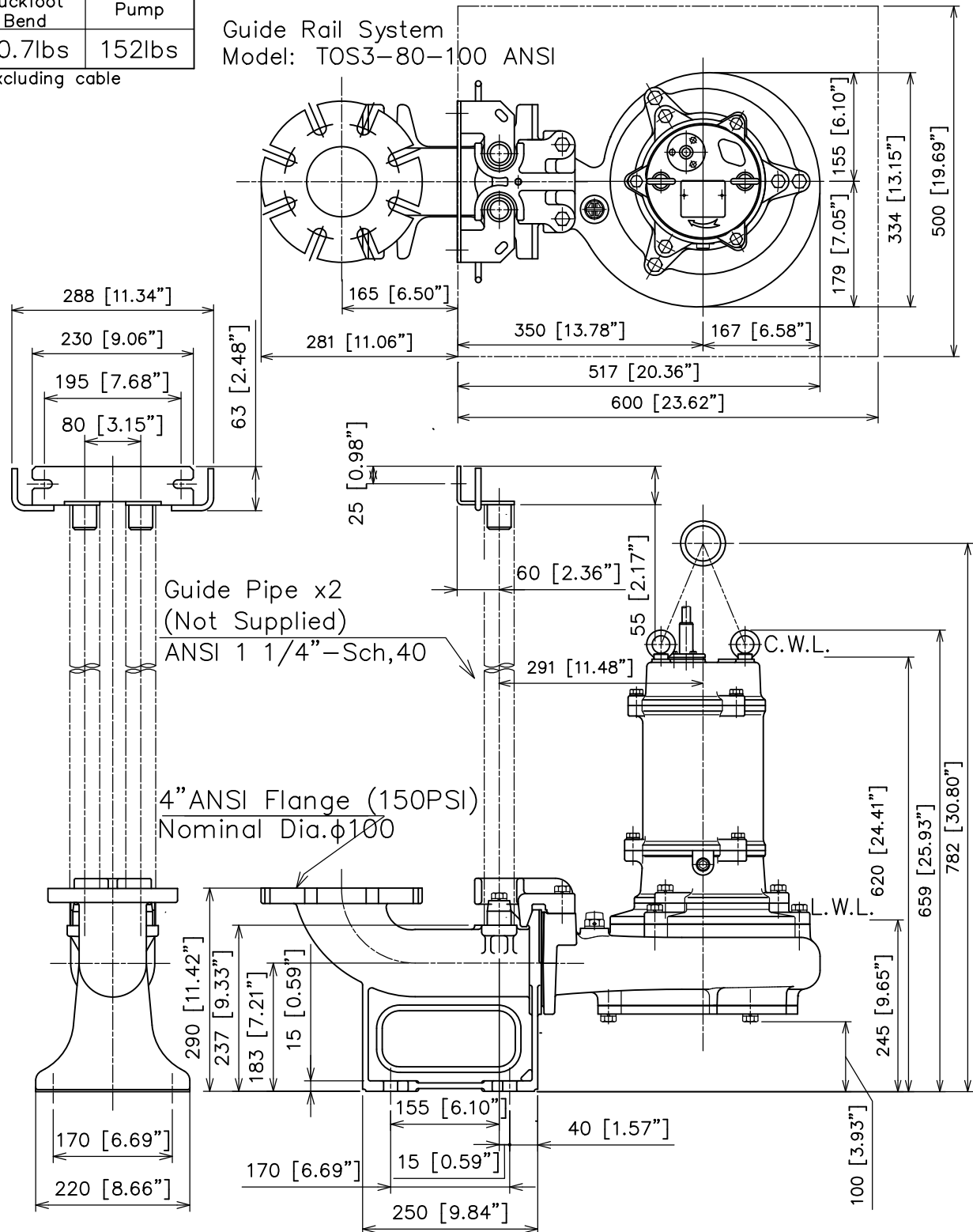


C.W.L.: Continuous running Water Level
L.W.L.: Lowest running Water Level

DIMENSION DRAWING No.		No.	A-31973-16US
TYPE	Submersible Sewage & Wastewater Pump	MODEL	TOS100BN42.2 -61

Approximate Weight(※)	
Duckfoot Bend	Pump
50.7lbs	152lbs

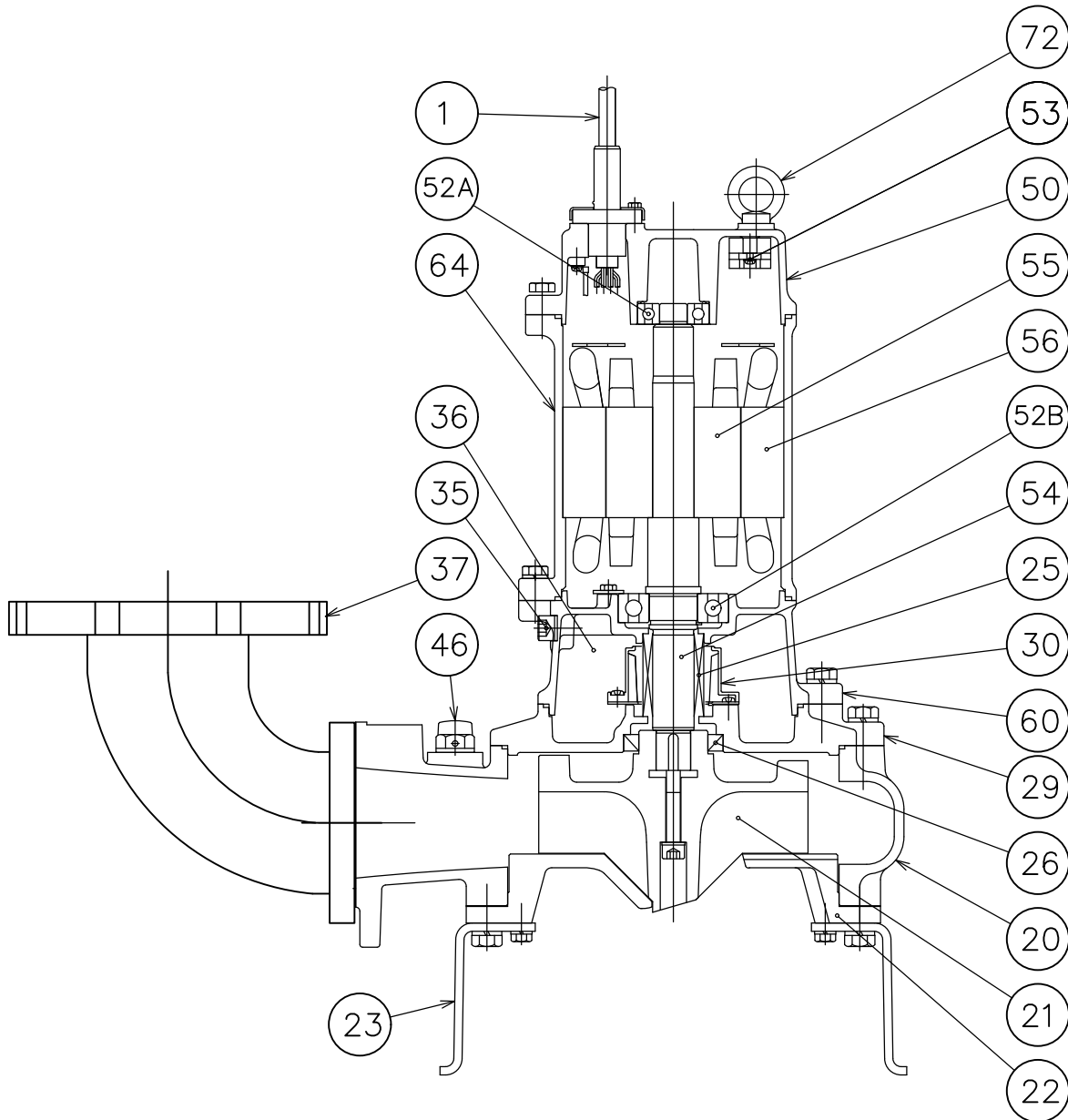
※excluding cable



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

unit: mm

SECTIONAL DRAWING		No.		No.	A-31966-16US
TYPE Submersible Sewage & Wastewater Pump		MODEL 100BN42.2 -61			



REQ.SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	50	Motor Bracket	1	Gray Iron Casting 200
20	Pump Casing	1	Gray Iron Casting 250	52A	Upper Bearing	1	6304ZZC3
21	Impeller	1	Ductile Iron Casting 500	52B	Lower Bearing	1	6307ZZC3
22	Suction Cover	1	Ductile Iron Casting 500	53	Motor Protector	1	
23	Stand	3	Steel Plate	54	Shaft	1	420J2 Stainless Steel
25	Mechanical Seal	1	H-30A	55	Rotor	1	
26	Oil Seal	1	TC507212	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting 250	35	Housing	1	Gray Iron Casting 200
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting 200
60	Oil Plug	1	304 Stainless Steel	72	Eyebolt	2	304 Stainless Steel
36	Lubricant		Turbine Oil(ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting 200				
46	Air Release Valve	1	Nylon				