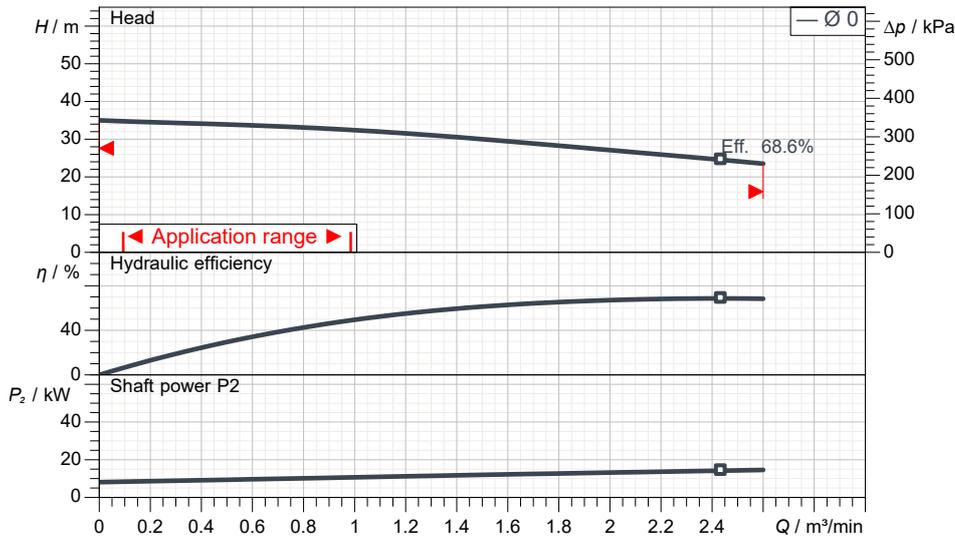


100B415-51 380-415V
Technical specification
3~ 50 Hz


Characteristic curves according to UNI EN ISO 9906:2012
 P₂<10kW: paragraph 4.4.2
 10kW<P₂<100kW: Grade 3B
 P₂>100kW: Grade 2B
 for pumps with standard material combination

Pump

Series	B
Pump name	100B415-51 380-415V
Standard	

Motor data

Motor	CT1-4-15-SC D
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P ₂	15.00 kW
Rated current	32.4 A
rpm	1461 1/min
Rated torque	98.0 Nm
Start*	Star-delta

Degree of protection	IP 68
Insulation class	F
Protection device	Miniature protector
Type of oil	Turbine oil VG32
Oil amount	4.7 l

Hydraulic

Free passage	57 mm
Impeller type	Channel impeller
Max. hydraulic efficiency	68.6 %
Discharge	100 mm
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1030 kg/m ³
pH treated liquid	5-9
Max. start per hour (equally distributed)	4
Wet/dry use	WET
Operating mode	S1

Construction materials

Motor enclosure	Gray Iron Casting 200
Shaft	420J2 Stainless Steel
Pump Casing	Gray Iron Casting 200
Impeller	Gray Iron Casting 200
Suction Cover	Gray Iron Casting 200
Painting	Epoxy paint (Black)
Screws	304 Stainless Steel
Gaskets	NBR

Construction features

Power cable1	4C*5.5mm ²
Power cable2	3C*5.5mm ²
Sheath	2PNCT
Control cable	2C*1.25mm ²
Sheath	VCT
Cable length	8 m
Mechanical seals	φ50
Weight*	280 kg

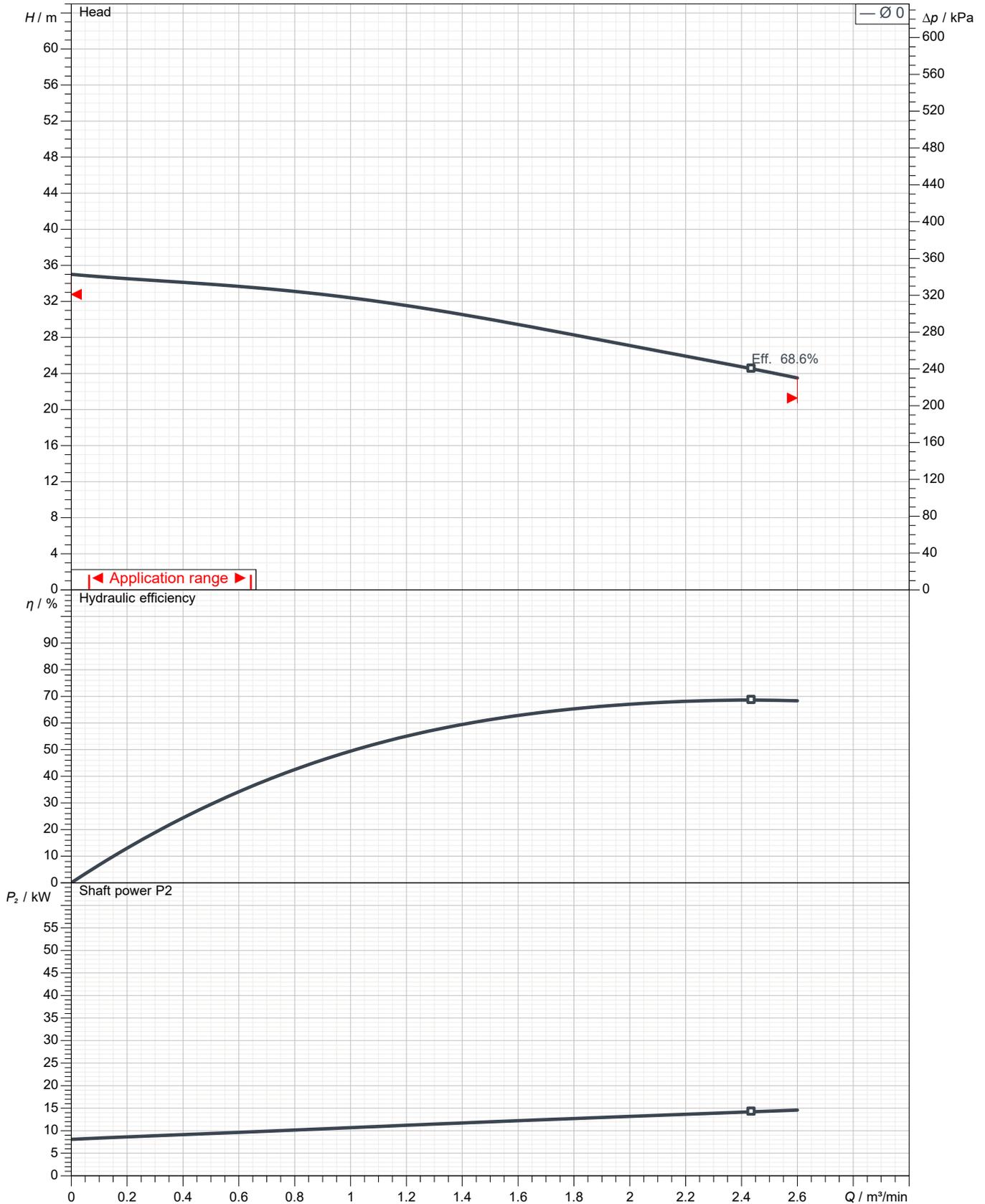
* cable and fixing system excluded

Monitoring features

Monitoring option	
leaking sensor	- N/A
monitoring equipment	- N/A

Pump performance curves
3 ~ 50 Hz

Discharge 100 mm	Head	Capacity	Rated power 15.0 kW	Voltage 380 V	Current 32.4 A	rpm 1461 1/min
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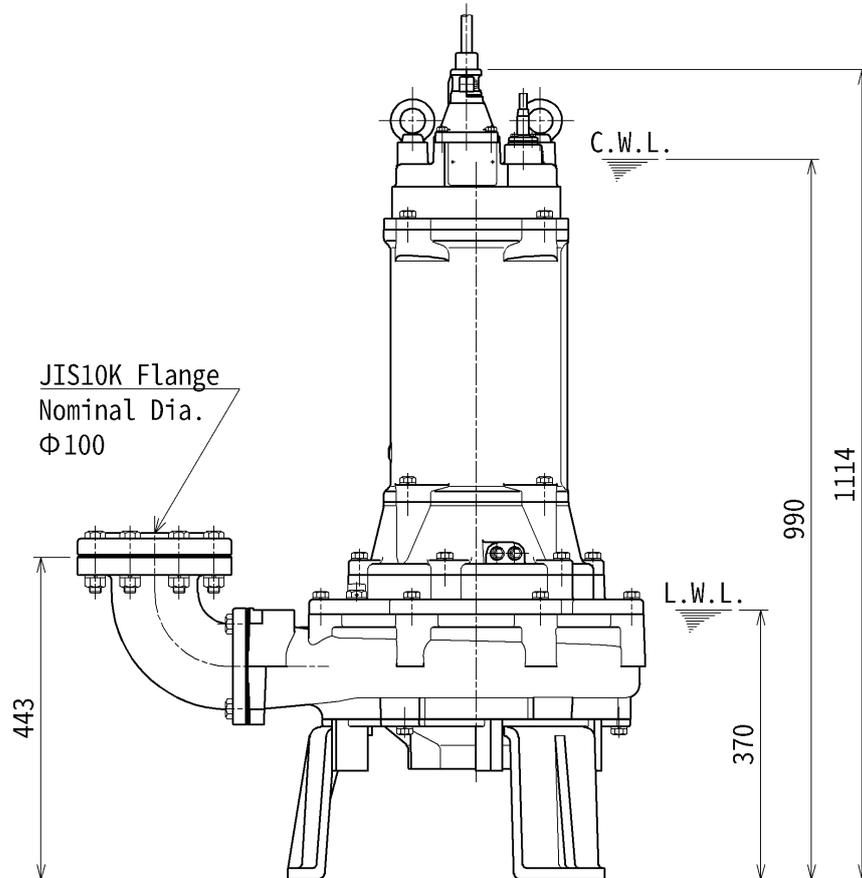
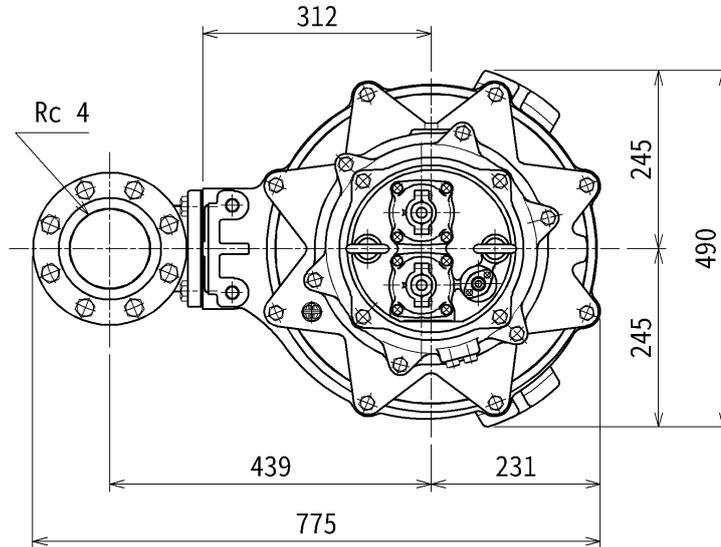


Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination
 P₂<10kW: paragraph 4.4.2
 10kW<P₂<100kW: Grade 3B
 P₂>100kW: Grade 2B

DIMENSION DRAWING		No.	No.	A-24439-35L
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B415 -51	

Approximate Weight(※)
280kg

※excluding cable



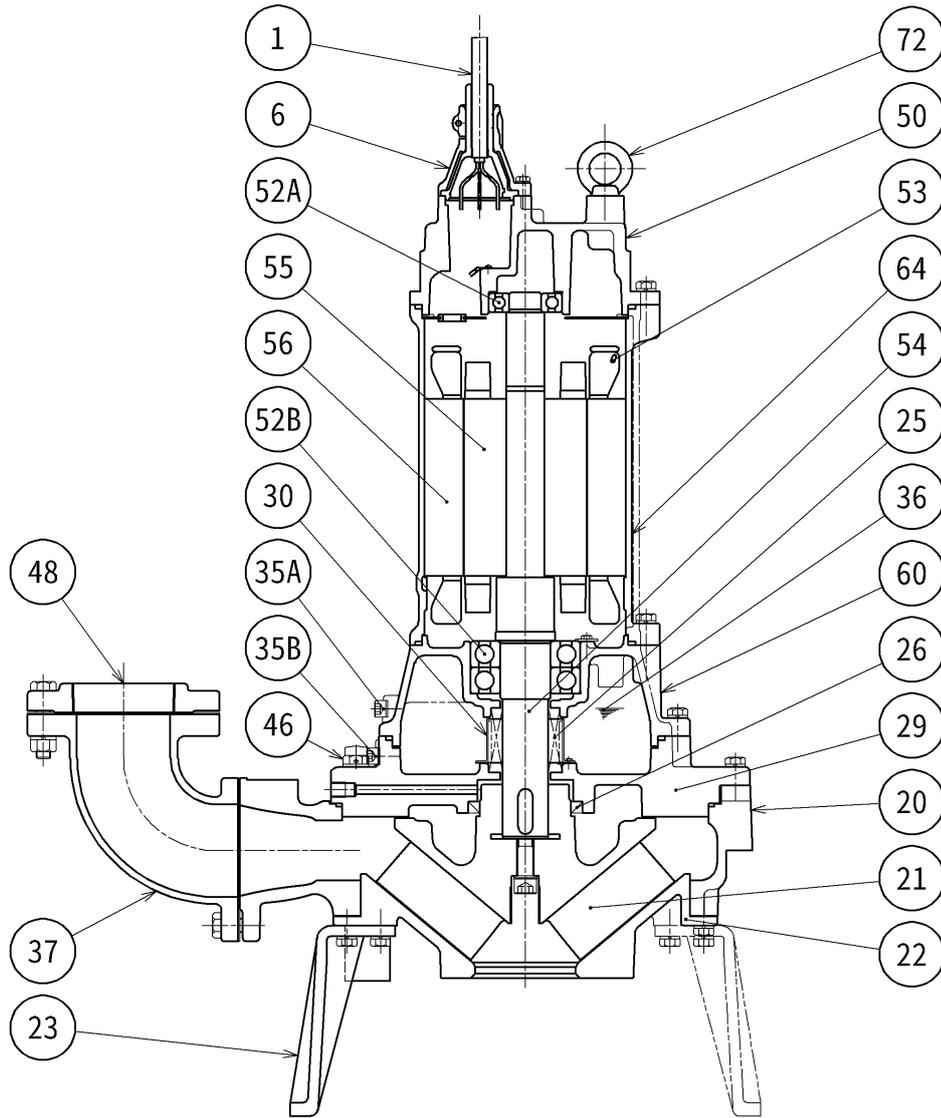
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2025-05-17

SECTIONAL DRAWING		No.	No. A-24446-55L
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B415 -51



REQ. SPECIFICATION	

		※1	※2
Cabtyre Cable (For the Power)	2	Chloroprene Sheath	
Cabtyre Cable (For The Control)	1	PVC Sheath	

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	※1 ※2		46	Air Release Valve	1	Nylon
6	Stuffing Box	2	Gray Iron Casting 200	48	Screwed Flange	1	Gray Iron Casting 200
20	Pump Casing	1	Gray Iron Casting 200	50	Motor Bracket	1	Gray Iron Casting 200
21	Impeller	1	Gray Iron Casting 200	52A	Upper Bearing	1	6307ZC3
22	Suction Cover	1	Gray Iron Casting 200	52B	Lower Bearing	2	6311ZC3
23	Stand	3	Ductile Iron Casting 450	53	Motor Protector	3	
25	Mechanical Seal	1	φ50	54	Shaft	1	420J2 Stainless Steel
26	Oil Seal	1	12510013	55	Rotor	1	
29	Oil Casing	1	Gray Iron Casting 200	56	Stator	1	
30	Oil Lifter	1	Steel Sheet	60	Bearing Housing	1	Gray Iron Casting 200
35A	Oil Plug	2	304 Stainless Steel	64	Motor Frame	1	Gray Iron Casting 200
35B	Oil Plug	1	304 Stainless Steel	72	Eyebolt	2	Carbon Steel
36	Lubricant		Turbine Oil(ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting 200				

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