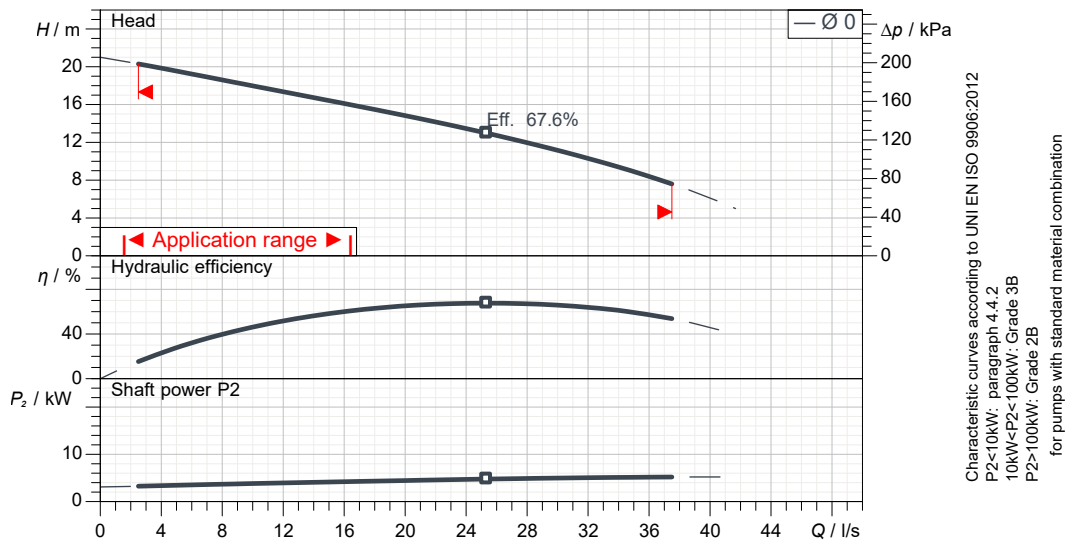


100BN45.5-51 380-415V
Technical specification
3~ 50 Hz

Pump

Series	BN
Pump name	100BN45.5-51 380-415V
Standard	N/A

Motor data

Motor	CT1-4-5.5-B2(2) 400V
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P_2	5.50 kW
Rated current	16.6 A
rpm	1455 1/min
Rated torque	36.1 Nm
Start*	Direct starting

Degree of protection	IP 68
Insulation class	F
Protection device	Circle thermal protector
Type of oil	Turbine oil VG32
Oil amount	4.2 l

Hydraulic

Free passage	
Impeller type	Channel impeller with Cutting mechanism
Max. hydraulic efficiency	67.6 %
Discharge	100 mm
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. liquid temperature	40 °C
Max. density treated liquid	1030 kg/m³
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 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	4C*3.5mm2
Power cable2	N/A
Sheath	2PNCT
Control cable	N/A
Sheath	N/A
Cable length*	8 m
Mechanical seals	H-35A
Weight**	166 kg

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

Monitoring features

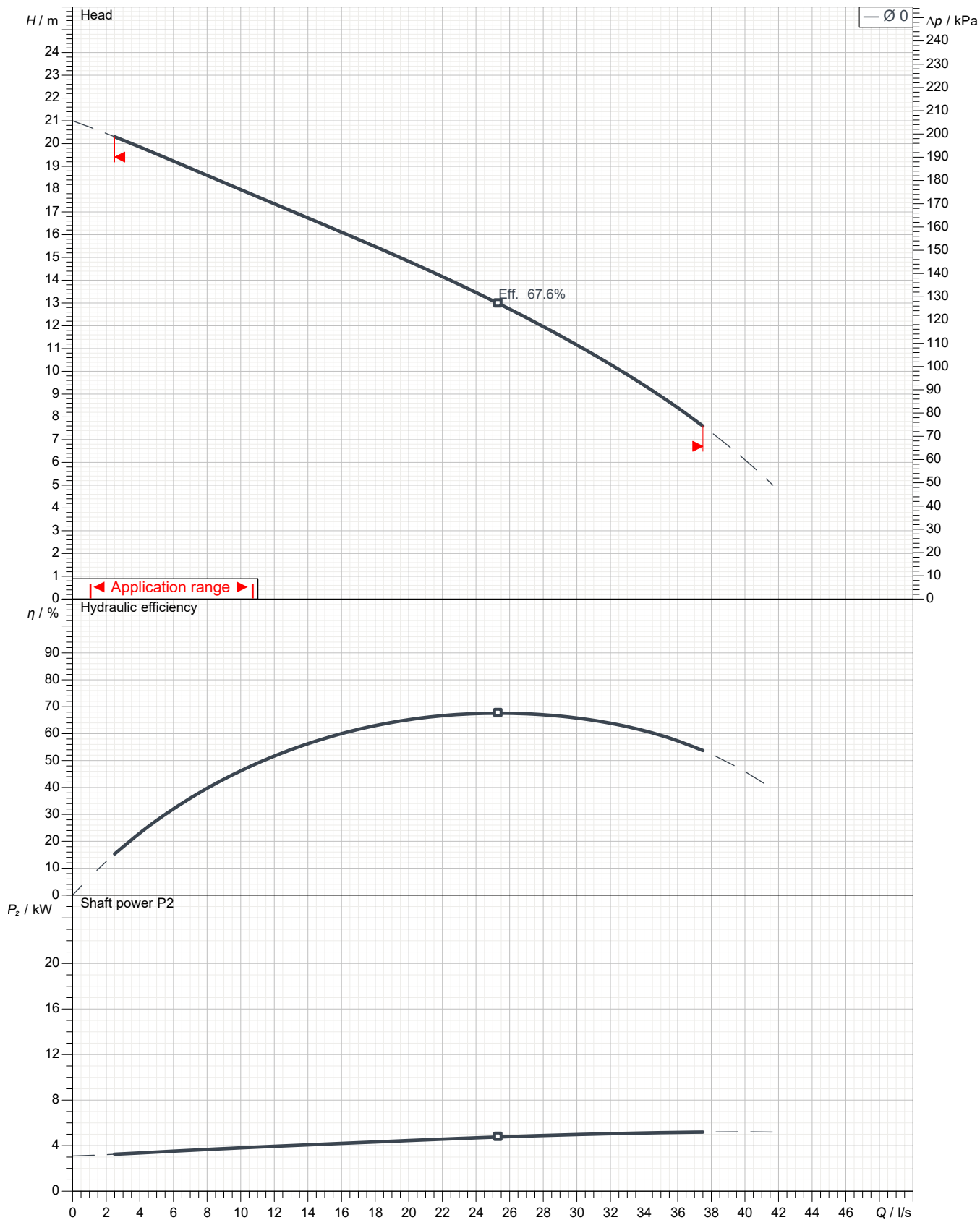
Monitoring option	
leaking sensor - N/A	
monitoring equipment - N/A	

100BN45.5-51 380-415V

Pump performance curves

3 ~ 50 Hz

Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
100 mm			5.5 kW	380 V	16.6 A	1455 1/min

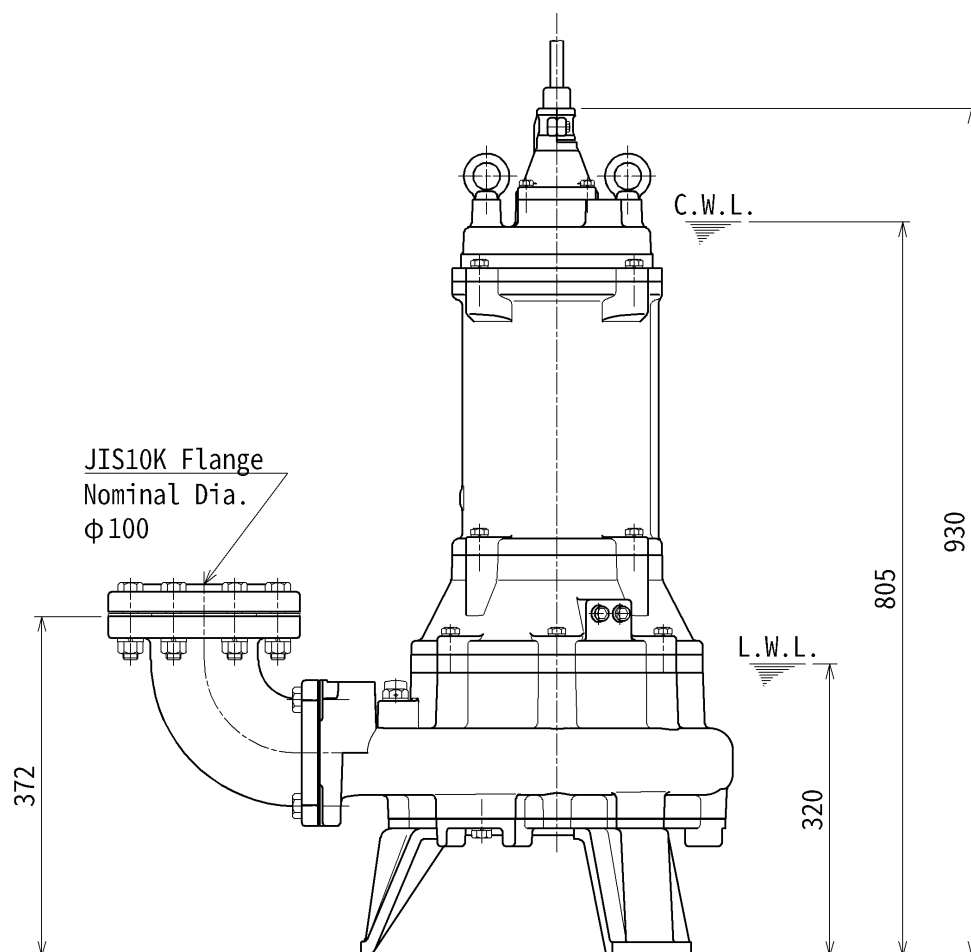
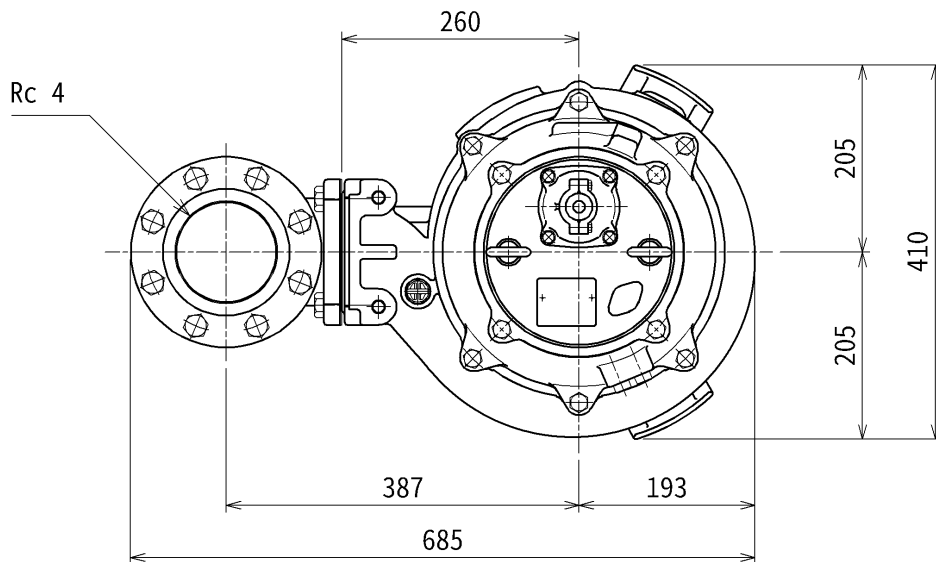


Characteristic curves according to UNI EN 9906:2012 for pumps with standard material combination
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

DIMENSION DRAWING		No.	No.	A-31961-15
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100BN45.5 -51	

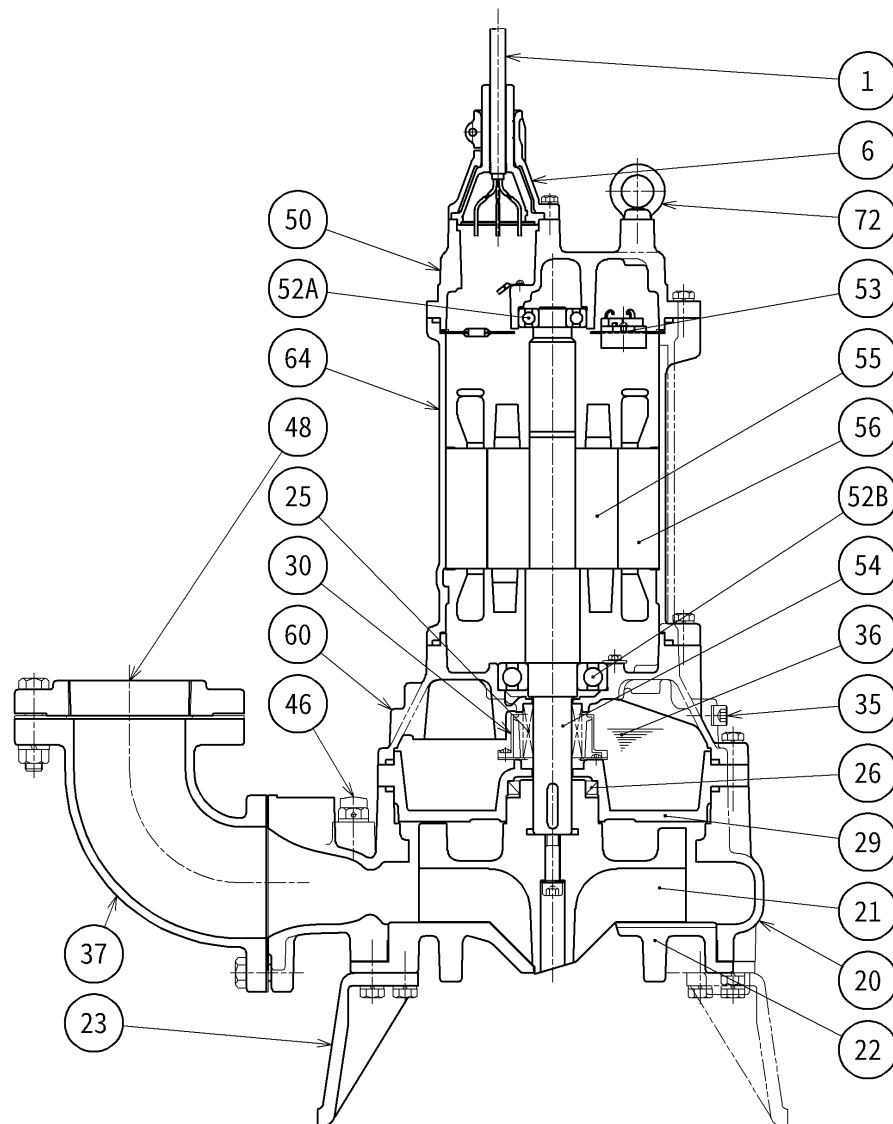
Approximate Weight(※)
166kg

※excluding cable



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

SECTIONAL DRAWING			No.	No.	A-31968-15
TYPE	Submersible Sewage & Wastewater Pump		MODEL	100BN45.5 -51	



REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	Chloroprene Sheath	48	Screwed Flange	1	Gray Iron Casting 200
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	6305ZZC3
21	Impeller	1	Ductile Iron Casting 500	52B	Lower Bearing	1	6309ZZC3
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	H-35A	55	Rotor	1	
26	Oil Seal	1	TC608212	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				
46	Air Release Valve	1	Nylon				