



SUBMER SIBLE P RODUCT R ANGE

**WQAS & WQ
RAW SEWAGE PUMPS**

**WQF
RAW CHEMICAL SLUDGE
PUMP**



2014 PRODUCT CATALOGUE

Q/S&M/SUB MER SIBLE/ RAW SEWAGE & SLUDGE WQAS, WQ & WQF CAT/14/01

WQAS RAW SEWAGE PUMP

PERFORMANCE RANGE

Maximum Head:	29m
Maximum Flow:	120m ³ /h
Power:	Up to 7.5kW

OPERATING CONDITIONS

Liquid temperature:	up to 40°C
Liquid SG:	1.2kg/l
pH:	4-10
Maximum solids handling:	Ø80mm
Protection class:	IP68, Class B

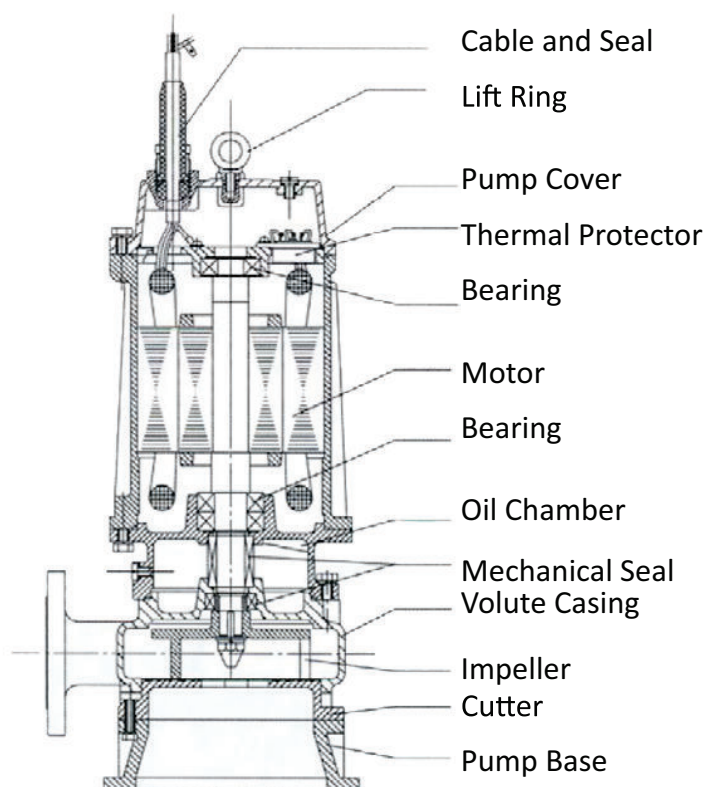
MATERIALS OF CONSTRUCTION

Cast iron pump construction.

Cast iron impeller construction, open type single channel.

Separate cutter mechanism located on pump inlet.

Double mechanical shaft seal (silicon carbide-silicon carbide/carbon graphite-ceramic).

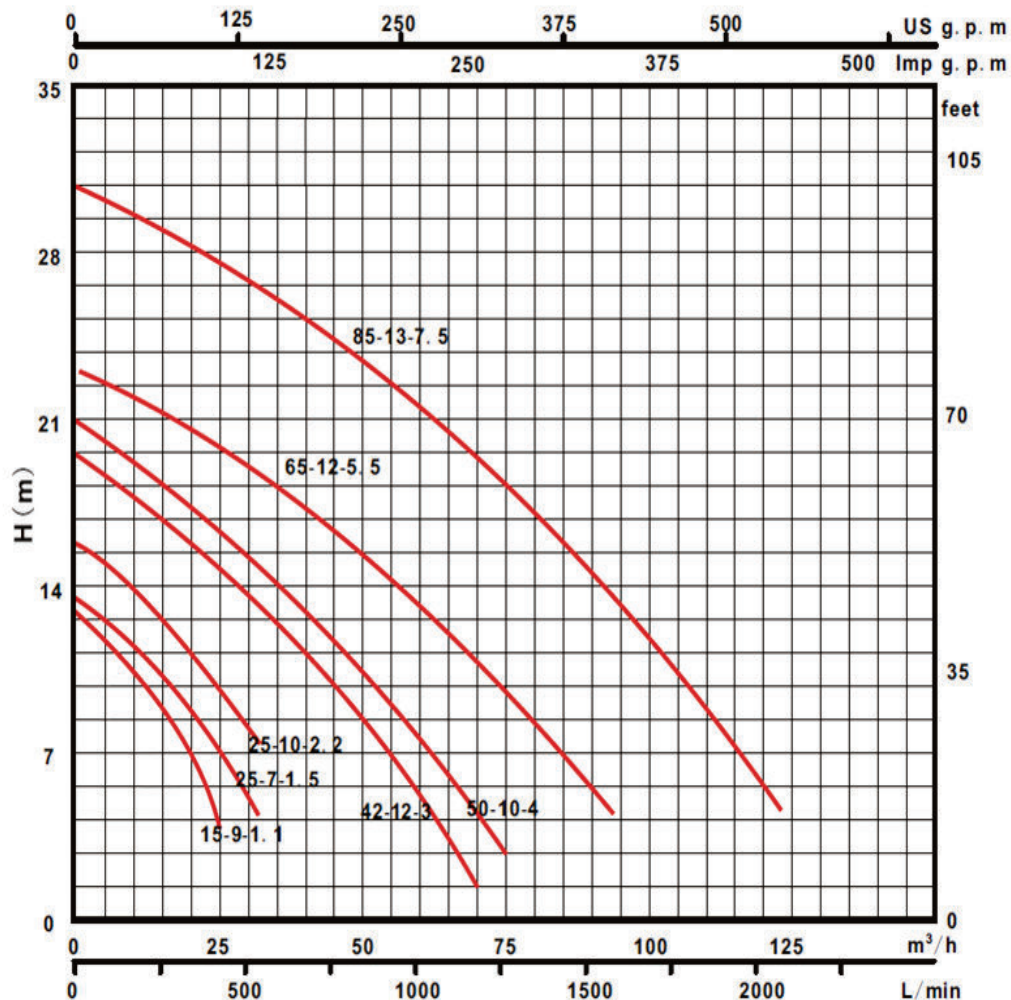


PERFORMANCE RANGE

MODEL	RATED FLOW	RATED HEAD	RATED POWER	OUTLET DIAMETER
	(m ³ /h)	(m)	(kW)	(mm)
WQAS15-9-1.1	15	9	1.1	50
WQAS25-7-1.5	25	7	1.5	50
WQAS25-10-2.2	25	10	2.2	50
WQAS42-12-3.0	42	12	3	80
WQAS50-10-4.0	50	10	4	80
WQAS65-12-5.5	65	12	5.5	100
WQAS85-13-7.5	85	13	7.5	100

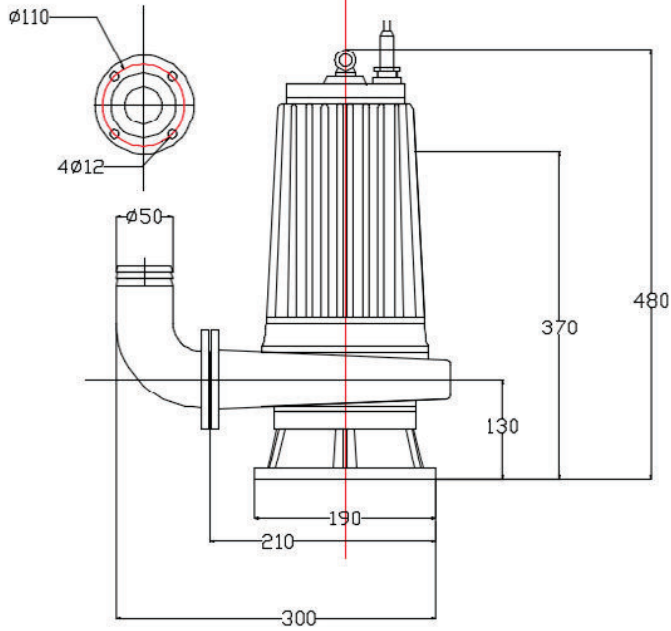
Specification Data at n=2850 rpm

PERFORMANCE CURVES

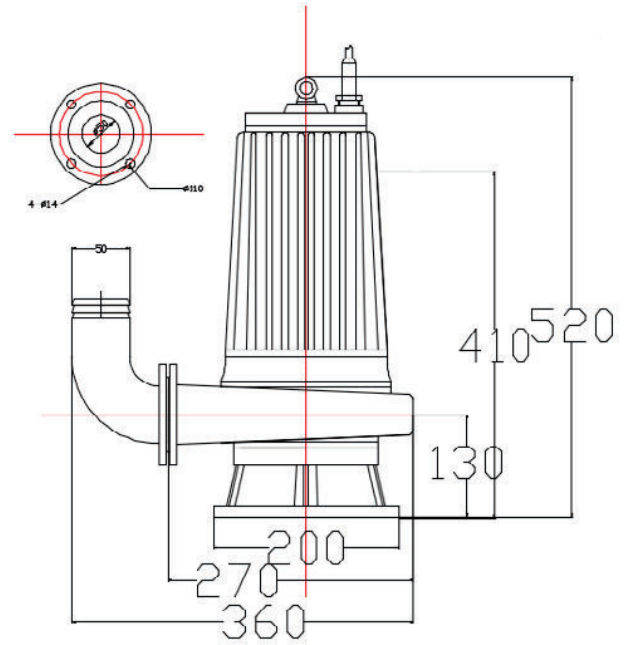


DIMENSIONS

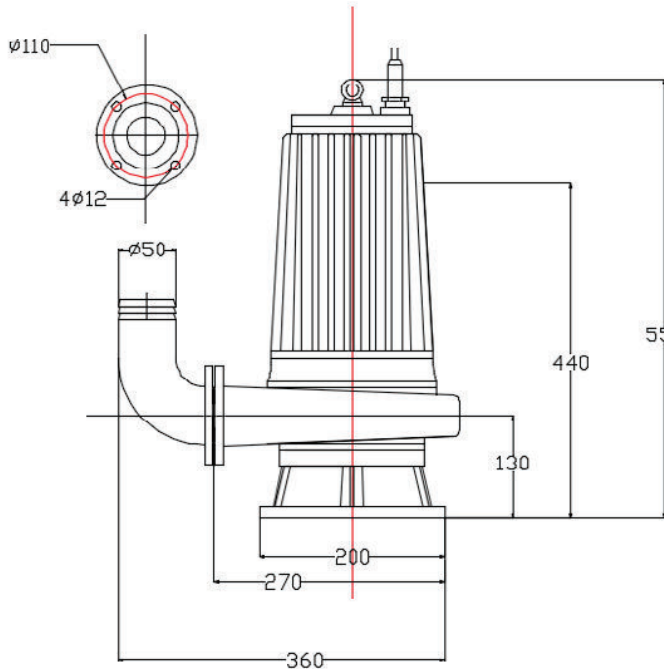
WQAS15-9-1.1



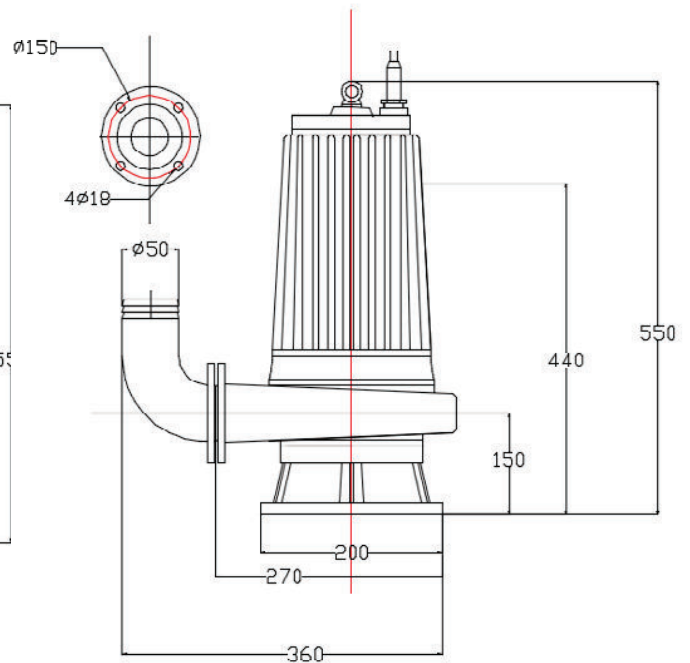
WQAS25-7-1.5



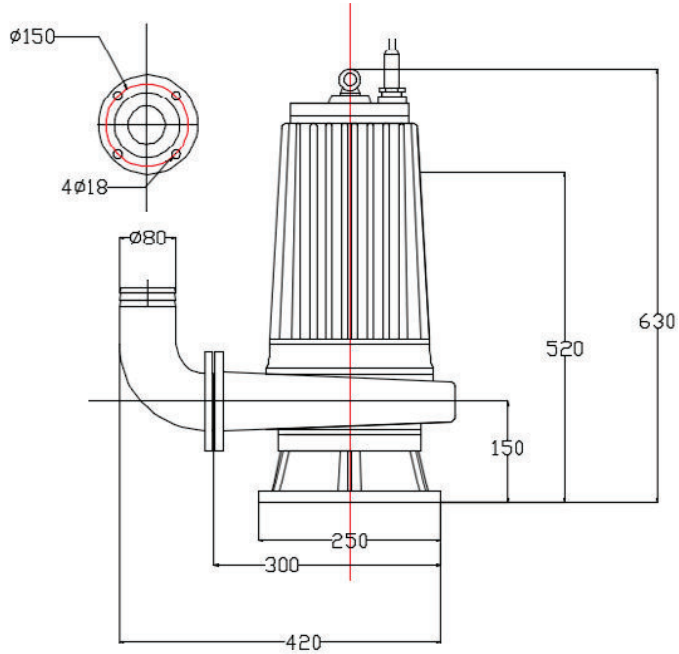
WQAS25-10-2.2



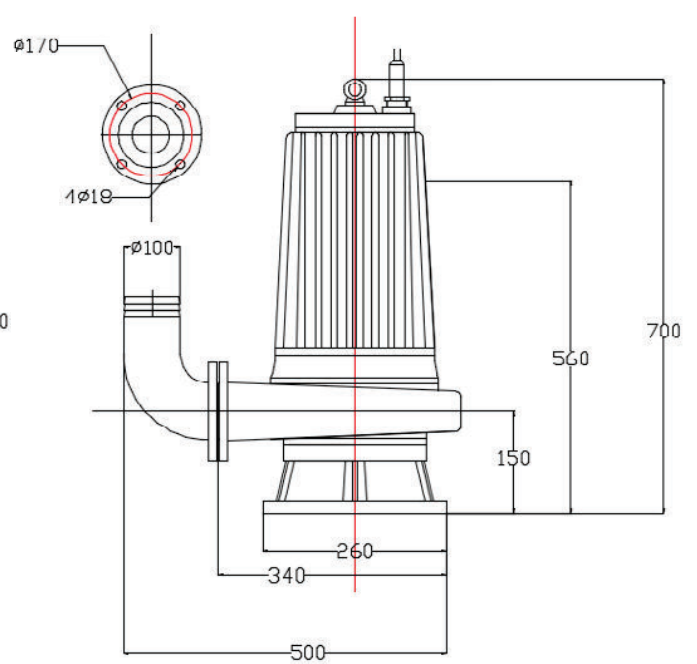
WQAS42-12-3



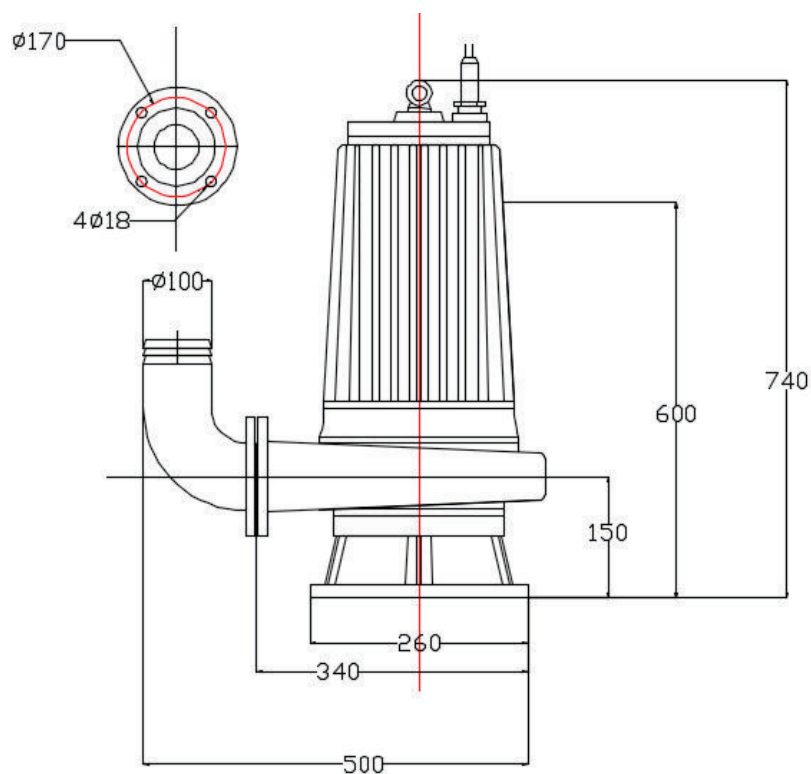
WQAS50-10-4



WQAS65-12-5.5



WQAS85-13-7.5



WQ RAW SEWAGE PUMP

PERFORMANCE RANGE

Maximum Head:	20m
Maximum Flow:	350m ³ /h
Power:	Up to 22kW

OPERATING CONDITIONS

Liquid temperature:	up to 40°C
Liquid SG:	1.3kg/l
pH:	6.5-8.5
Maximum solids handling:	Φ120mm
Protection class:	IP68, Class B

MATERIALS OF CONSTRUCTION

Cast iron pump construction.

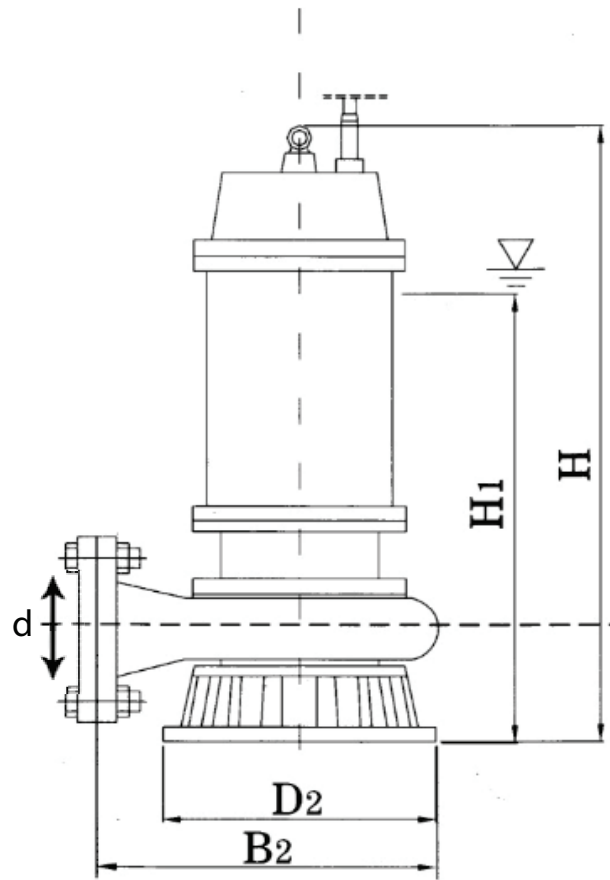
Cast iron impeller construction, open type single channel.

Separate cutter mechanism located on pump inlet.

Double mechanical shaft seal (silicon carbide-silicon carbide/carbon graphite-ceramic).



DIMENSIONS



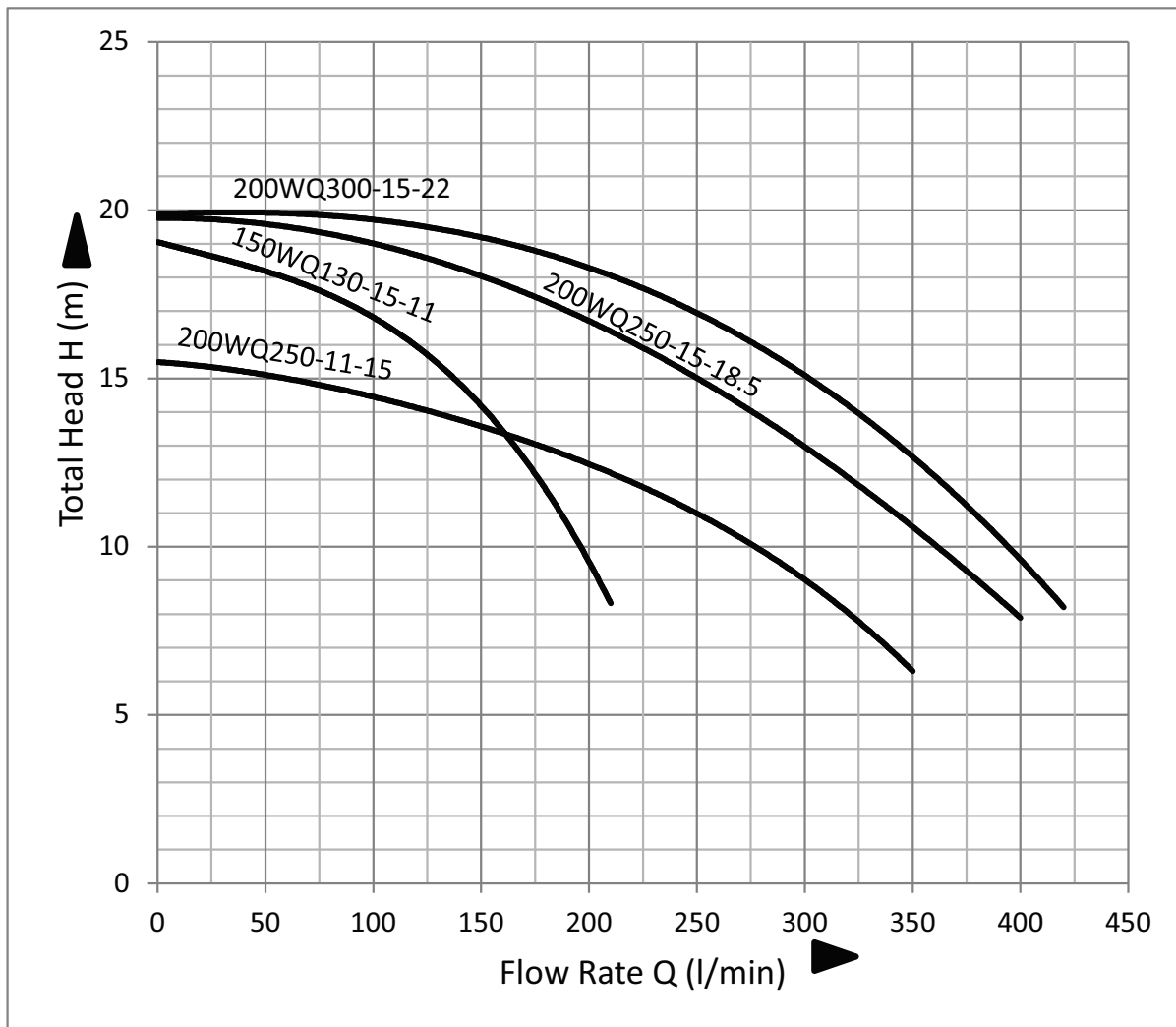
MODEL	H	H ₁	B ₂	D ₂	d
	(mm)				
150WQ130-15-11	1050	1000	620	420	150
200WQ250-11-15	1120	1070	610	420	200
200WQ250-15-18.5	1020	800	610	420	200
200WQ300-15-22	1070	850	630	420	200

PERFORMANCE RANGE

MODEL	RATED FLOW	RATED HEAD	RATED POWE R	OUTLET DIAMETER R
	(m ³ /h)	(m)	(kW)	(mm)
150WQ130-15-11	130	15	11	150
200WQ250-11-15	250	11	15	200
200WQ250-15-18.5	250	15	18.5	200
200WQ300-15-22	300	15	22	200

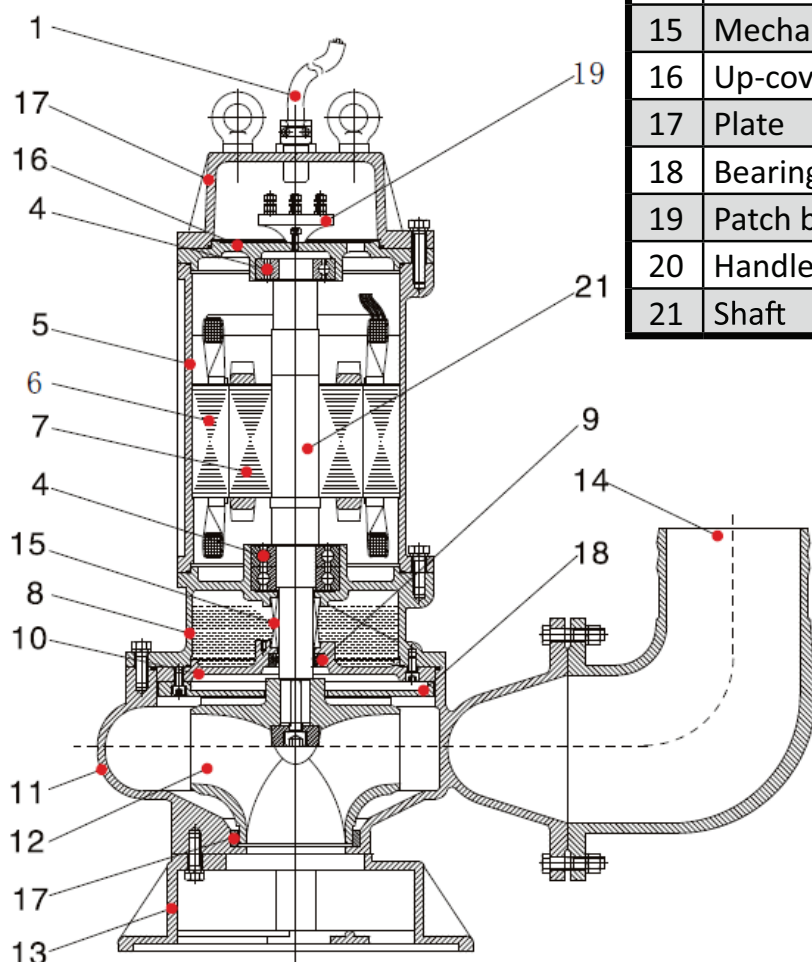
Specification Data at n=1450 rpm

PERFORMANCE CURVES



PUMP PARTS

NO.	PART NAME	MATERIAL
1	Cable	
2	Motor protector	
3	Bearing house	Cast iron
4	Bearing	Ball Bearing
5	Motor body	Cast iron
6	Stator	
7	Rotor	
8	Bearing house	Cast iron
9	Oil seal bracket	
10	Plate	Cast iron
11	Pump body	Cast iron
12	Impeller	Cast iron
13	End stand	Cast iron
14	Hose coupling	Cast iron
15	Mechanical seal	Sic-sic/carbon ceramic
16	Up-cover	Cast iron
17	Plate	Cast iron
18	Bearing house	Cast iron
19	Patch board	
20	Handle	Steel
21	Shaft	AISI 1045



WQF CHEMICAL SLUDGE PUMP

PERFORMANCE RANGE

Maximum Head: 17m
Maximum Flow: 75m³/h
Power: 3kW

OPERATING CONDITIONS

Liquid temperature: up to 60°C
Liquid SG: 1.2kg/l
pH: 2-10
Maximum solids ratio: 10%
Viscosity: 3-6cPs
Maximum immersion depth: 5m

MATERIALS OF CONSTRUCTION

316L Stainless steel pump construction.

316L Stainless steel impeller construction, open type single channel.

Separate cutter mechanism located on pump inlet.

Double mechanical shaft seal (silicon carbide-silicon carbide/carbon graphite-ceramic).

Viton Elastomers (including cable shroud).

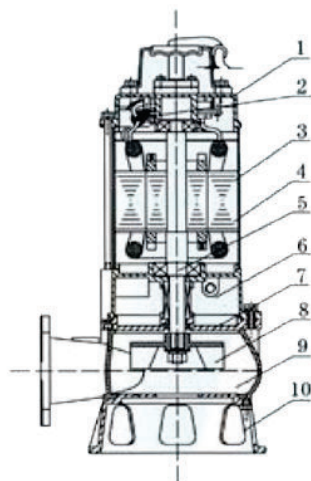


MAINTENANCE

Replace oil after 500 hours of operation.

Pressure test at 0.2mPa for 5 minutes.

PUMP PARTS

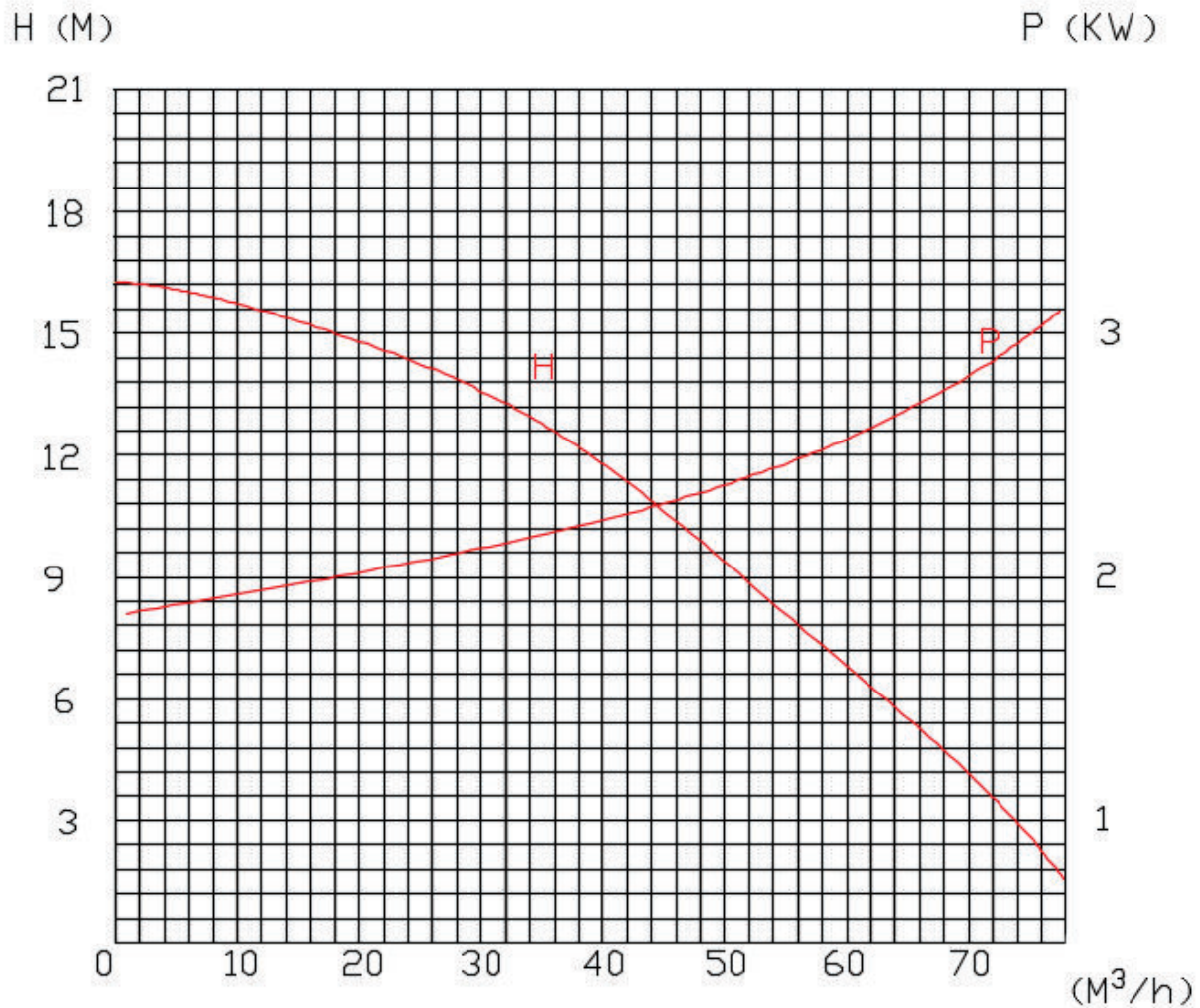


NO.	PART NAME	MATERIAL
1	Cover	Stainless Steel 316L
2	Thermal protector	
3	Pump body	Stainless Steel 316L
4	Motor stator	
5	Rotor	Stainless Steel 316L
6	Oil room	Stainless Steel 316L
7	Impeller cover	Stainless Steel 316L
8	Impeller	Stainless Steel 316L
9	Pump casing	Stainless Steel 316L
10	Pump base	Stainless Steel 316L

PERFORMANCE RANGE

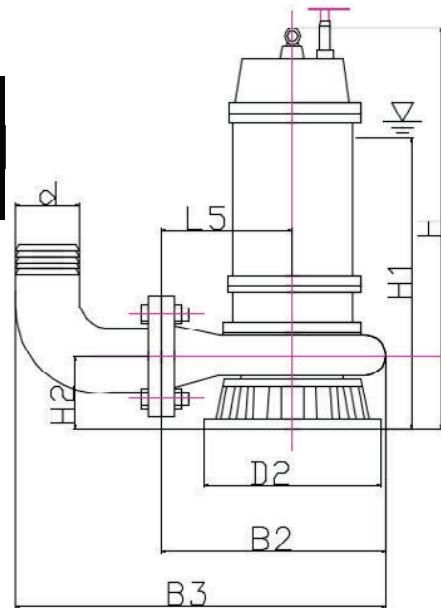
MODEL	MOTOR				PUMP			WEIGHT (kg)
	POWER	VOLTAGE	SPEED	HERTZ	FLOW	HEAD	OUTLET	
	(kW)	(V)	(rpm)	(Hz)	(m ³ /h)	(m)	(mm)	
65WQF35-10-3	3	380	2860	50	35	12	65	42

PERFORMANCE CURVE



DIMENSIONS

MODEL	H	H ₁	H ₂	D ₂	B ₂	B ₃	L ₅	d
	(mm)							
65WQF35-10-3	520	420	98	225	270	375	158	65



GUIDELINES

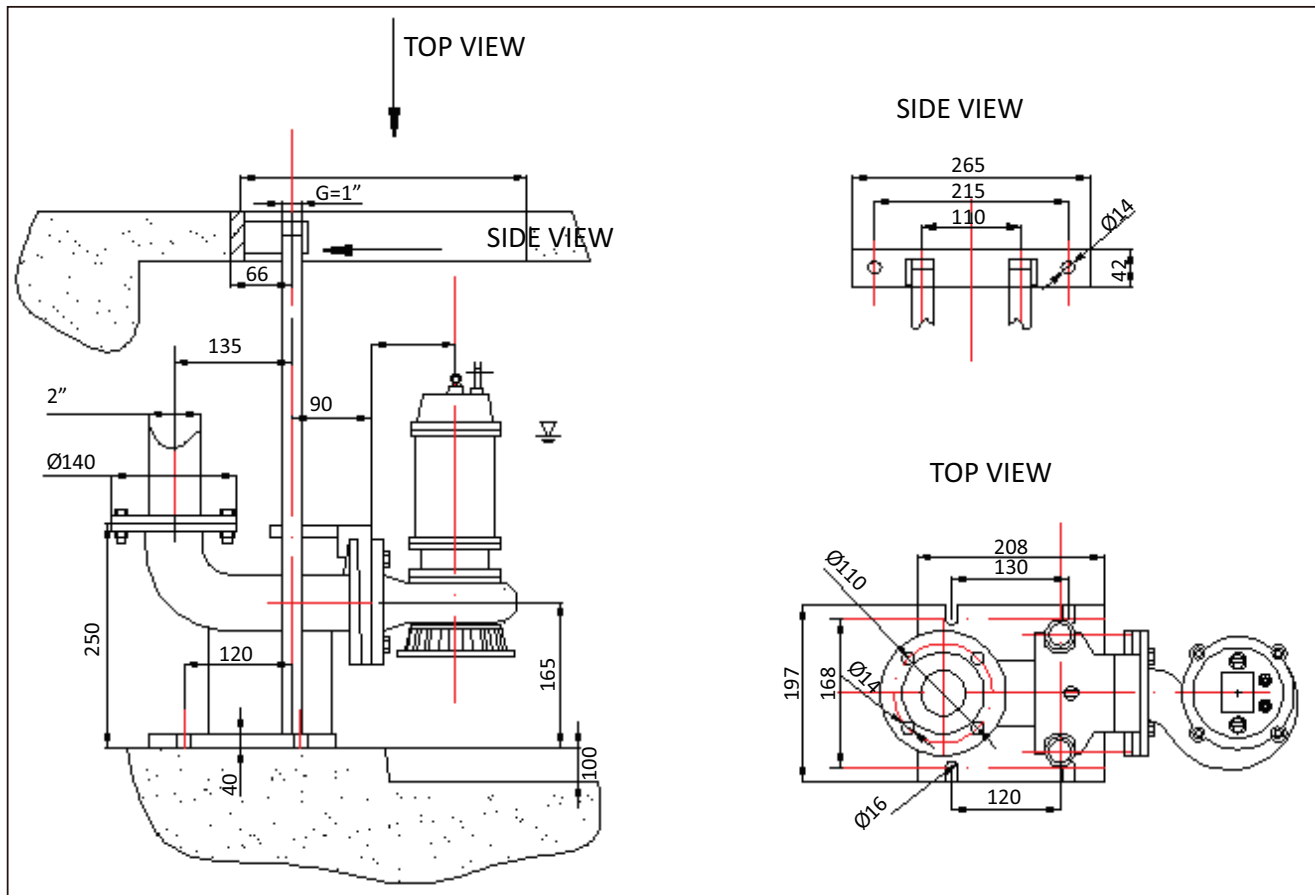
1. Ensure that pump has not been damaged during transportation or installation.
2. Check for coolant leakage.
3. Ensure that the impeller rotates normally.
4. Make sure that the power source, voltage and frequency are providing the correct inputs (Voltage $380 \pm 5\%$, Frequency $50\text{Hz} \pm 1\%$).
5. Check that the cable, connector box and cable inlet seal are intact and take measurements immediately should any leakage be detected.
6. Do not lift the pump by its cable so as to avoid damaging it.
7. Use a 500V megohmmeter to test the resistance of the ground motor windings. If this value is not greater than $2\text{M}\Omega$, there is a leak in the stator's insulation or moisture in the windings. The pump must be examined and repaired.
8. Do not pump flammable or explosive liquids, or strong chemicals with this pump.
9. Ensure that the pump's rotating direction is counter clockwise when seen from the inlet side. If you find that the pump is rotating in the opposite direction, exchange any two wires in the cable.
10. Once the pump has been operating for a year, it is recommended that it be examined and the oil in the oil chamber, mechanical seal, bearing lubricant and any other necessary parts be replaced. It is not necessary to replace the grease in the enclosed bearing during the pump's service life.
11. Adjust the impeller gap to ensure constant capacity and efficiency should the seal ring (between the impeller and pump housing) become worn.
12. If the pump is idle for several months, it is recommended that it be removed from the water in order to prevent the dampening of its windings and extend its service life.
13. When removing or installing the pump, ensure that it is handled with care.

DUCKFOOT ASSEMBLY FOR WQAS & WQ PUMPS

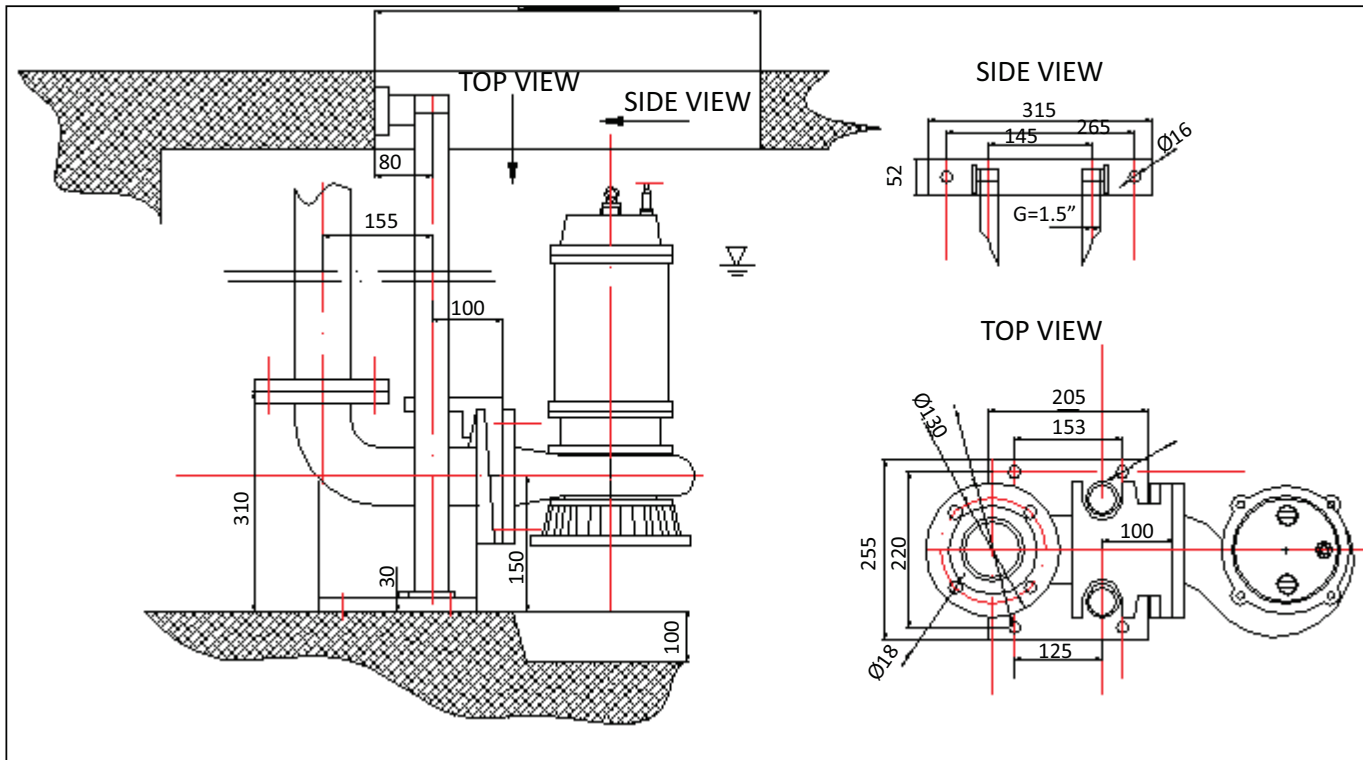


This duckfoot assembly accommodates the WQAS and WQ sewage pumps for fixed installations. It is a rigid, cast iron connection system that connects to the sewage discharge line and ensures easy removal of the pump for maintenance. The duckfoot creates a fixed positive seal with the pump's discharge without the use of a flexible hose. It is made of cast iron and consists of a top bracket, sliding foot and duck foot bend. Guiderails are excluded. Note however that 50mm duckfoots require a 1" thick guiderail, whereas duckfoot sizes from 80mm to 200mm need 1.5" thick guiderails.

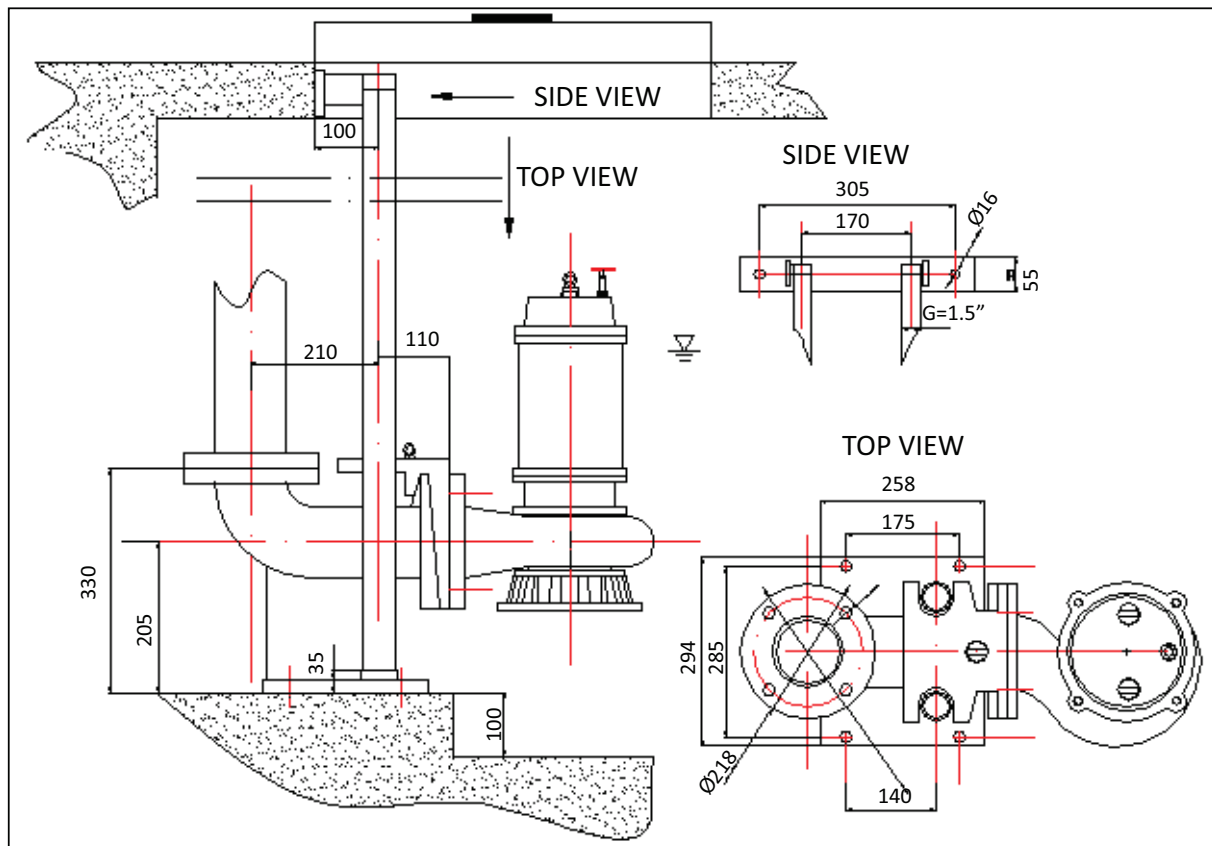
50MM DUCKFOOT ASSEMBLY



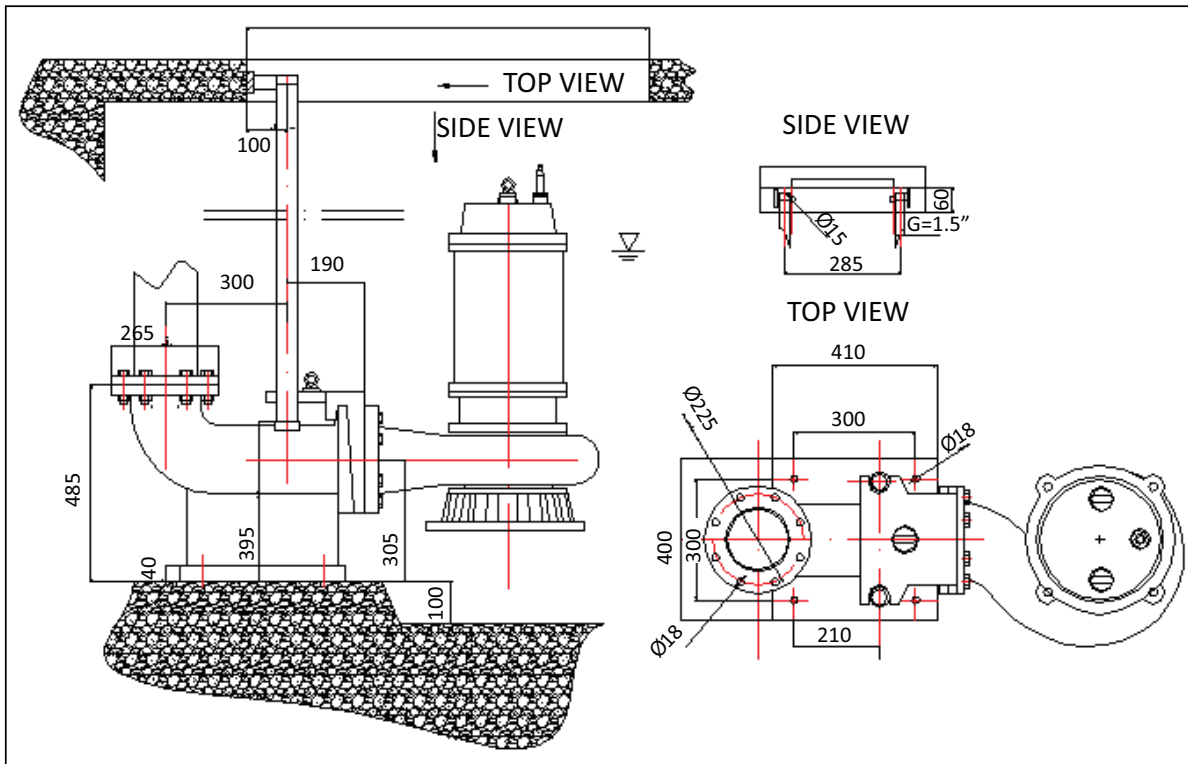
80mm DUCKFOOT ASSEMBLY



100mm DUCKFOOT ASSEMBLY



150mm DUCKFOOT ASSEMBLY



200mm DUCKFOOT ASSEMBLY

