

Submersible Sewage Pump



WQ(D)



Performance Range

Max. Flow: 140m³/h
Max. Head: 44m

Application Limits

- ◎ Maximum liquid temperature +40℃
- ◎ pH level from 4-10
- ◎ Maximum liquid density 1.2×10³ kg/m³
- ◎ Power frequency is 60Hz. Nominal voltage is 120VAC or 220VAC for single phase and 380VAC for three phase with the range from -10% to +10%.
- ◎ Immersion depth from 0.5m-5m

Certificate

CE

Application Fields

WQ(D) series pumps are widely applied in industry, agriculture, mining, construction, municipal, environmental protection, etc. They are suitable for draining watercontaining particles such as short fibers, paper scraps,etc. and soft solid,such as muddy water, dirty water, domestic wastewater, sewage, manure, etc. They are ideal equipmentfor agricultural irrigation and drainage,pool/cleaning and site construction, but do not apply to the location with explosion-proof requirements.

Features

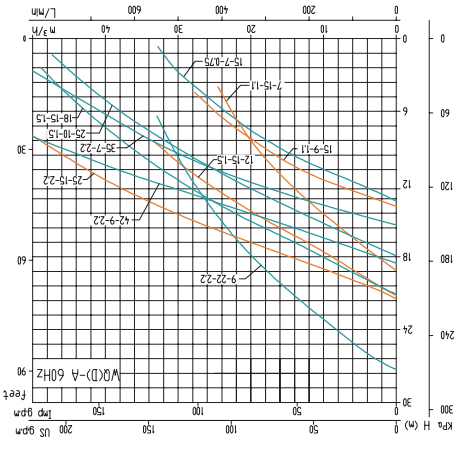
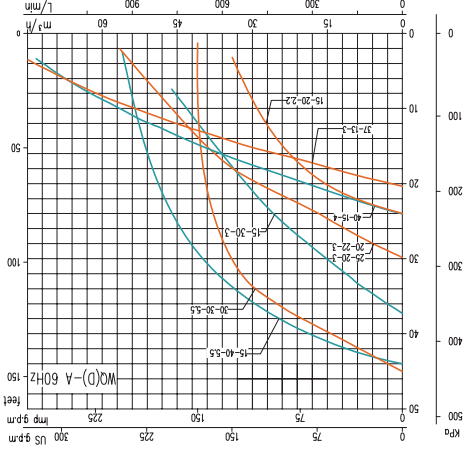
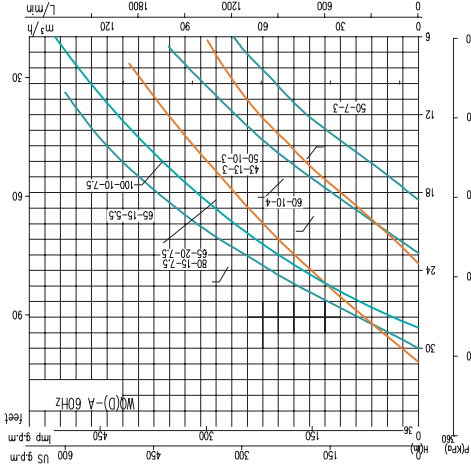
- ◎ Wear-resistant whole cast iron parts design
- ◎ Double channel impeller, good flow capacity, excellent hydraulic performance
- ◎ The stainless steel shaft extension, carbide double sides mechanical sealing

Model Instruction

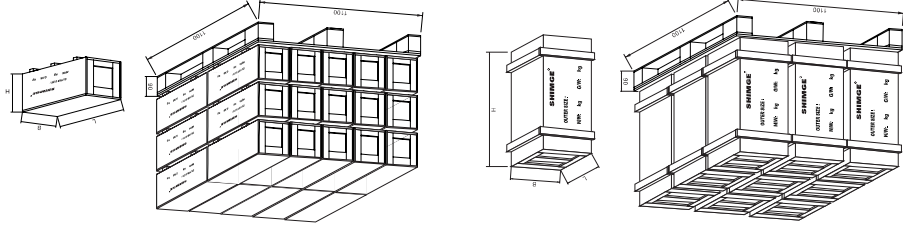
WQ D 15 - 9 - 11 A (380V / 60Hz)

- Power Frequency (Hz)
- Series Code
- Rated Voltage (V)
- Motor Power(kW)
- Rated Head (m)
- Rated Flow (m³/h)
- Single phase motor
- Waste Submersible
- Motor Pump

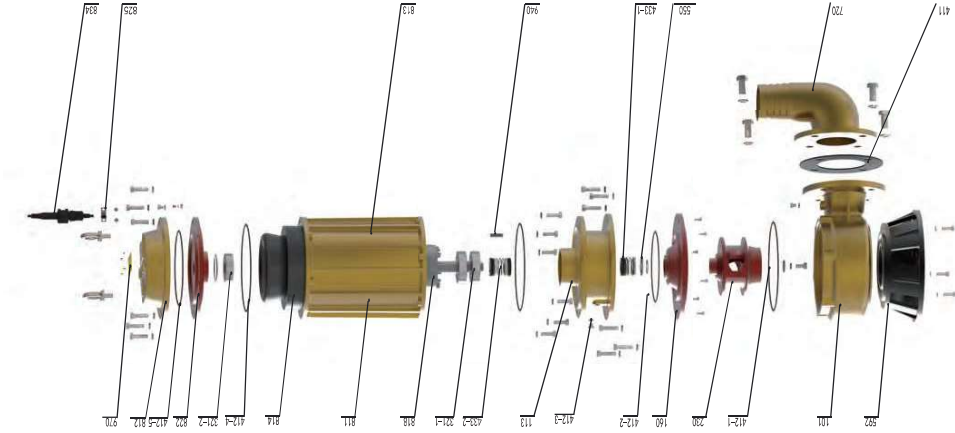
Performance Curve



Model	Power		Rate	Max. Flow (m³/h)	Max. Head (m)	Cable line (m)	Head Range (m)	Cable line (m)	Dim:mm (LxBxH)	G.W. (kg)	20' Loading Qty. (pcs)
	kW	HP									
WQD6-12-0.55A(120V/60Hz)	0.550	0.75	4.1	17.5	15.0	0 ~ 14	3Kx1-8	470x250x235	21.0	1014	1014
WQD6-12-0.75A(120V/60Hz)	0.750	1.00	9.6	19.0	15.0	5 ~ 18	3Kx1.5-8	470x250x235	23.0	1014	1014
WQD6-16-0.75A(120V/60Hz)	0.750	1.00	9.6	22.0	19.0	5 ~ 18	3Kx1.5-8	470x250x235	23.0	1014	1014
WQD6-16-0.75A(220V-380V/60Hz)	0.750	1.00	3.4/2	19.0	19.0	5 ~ 18	4X0.75-8	540x240x280	22.0	772	772
WQD6-16-0.75A(220V/60Hz)	0.750	1.00	5.2	22.0	19.0	5 ~ 18	3Kx0.75-8	470x250x235	22.0	1014	1014
WQD10-10-0.75A(220V/60Hz)	0.750	1.00	5.2	24.0	15.0	0 ~ 15	3Kx0.75-8	520x210x275	29.0	932	932
WQ10-10-0.75A(220-380V/60Hz)	0.750	1.00	3.4/2	15.0	15.0	0 ~ 15	4X0.75-8	540x240x280	31.0	772	772
WQ15-7-0.75A(220-380V/60Hz)	0.750	1.00	3.4/2	20.0	17.0	0 ~ 17	4X0.75-8	540x240x280	32.0	772	772
WQD7-15-1.1A(115V/60Hz)	1.100	1.50	13.9	22.0	19.0	3 ~ 18	3Kx1.5-8	540x240x280	31.0	772	772
WQD7-15-1.1A(220V/60Hz)	1.100	1.50	7.3	22.0	19.0	3 ~ 18	3Kx1-8	540x240x280	31.0	772	772
WQ7-15-1.1A(220V-380V/60Hz)	1.100	1.50	4.7/2.7	22.0	19.0	3 ~ 18	4X0.75-8	540x240x280	31.0	772	772
WQD15-9-1.1A(220V/60Hz)	1.100	1.50	7.3	25.0	14.0	0 ~ 14	3Kx1-8	540x240x280	32.0	772	772
WQ15-9-1.1A(220V-380V/60Hz)	1.100	1.50	4.7/2.7	25.0	14.0	0 ~ 14	4X0.75-8	540x240x280	32.0	772	772
WQ18-15-1.5A(220V-380V/60Hz)	1.500	2.00	6.3/3.6	34.0	19.0	0 ~ 19	4X1-8	610x260x308	45.0	573	573
WQ25-17-1.5A(220V-380V/60Hz)	1.500	2.00	6.3/3.6	47.0	14.0	0 ~ 14	4X1-8	610x260x308	39.0	573	573
WQ25-17-1.5A(220V/60Hz)	1.500	2.00	3.0	40.0	14.0	0 ~ 14	4X1-8	610x260x308	39.0	573	573
WQ25-15-2.2A(220V-380V/60Hz)	2.200	3.00	8.8/5.1	60.0	20.0	0 ~ 20	3Kx1.5+1X1-8	635x260x348	50.0	487	487
WQ25-15-2.2A(220V/60Hz)	2.200	3.00	8.8/5.1	35.0	25.0	0 ~ 25	3Kx1.5+1X1-8	635x260x348	50.0	487	487
WQ15-20-2.2A(220V-380V/60Hz)	2.200	3.00	8.8/5.1	29.0	25.0	0 ~ 25	3Kx1.5+1X1-8	635x260x348	47.0	487	487
WQ9-22-2.2A(220V/60Hz)	2.200	3.00	8.8/5.1	29.0	25.0	0 ~ 25	3Kx1.5+1X1-8	635x260x348	47.0	487	487
WQ25-12-2.2A(220V-380V/60Hz)	2.200	3.00	8.8/5.1	60.0	20.0	0 ~ 20	3Kx1.5+1X1-8	635x260x348	50.0	487	487
WQ35-7-2.2A(220V/60Hz)	2.200	3.00	8.8/5.1	50.0	15.0	0 ~ 15	3Kx1.5+1X1-8	635x260x348	50.0	487	487
WQ42-9-2.2A(220V-380V/60Hz)	2.200	3.00	8.8/5.1	60.0	16.0	0 ~ 19	3Kx1.5+1X1-8	655x270x328	52.0	483	483
WQ15-30-3A(220V-380V/60Hz)	3.000	4.00	11.5/6.7	31.0	34.0	20 ~ 34	3Kx1.5+1X1 ☆ -8	635x260x348	53.0	487	487
WQ25-22-3A(220V-380V/60Hz)	3.000	4.00	11.5/6.7	45.0	27.0	10 ~ 26	3Kx1.5+1X1 ☆ -8	635x260x348	54.0	487	487
WQ25-20-3A(220V-380V/60Hz)	3.000	4.00	11.5/6.7	48.0	25.0	10 ~ 25	3Kx1.5+1X1 ☆ -8	635x260x348	54.0	487	487
WQ37-13-3A(220V-380V/60Hz)	3.000	4.00	11.5/6.7	37.0	20.0	0 ~ 20	3Kx1.5+1X1 ☆ -8	720x320x390	61.0	312	312
WQ43-13-3A(220V-380V/60Hz)	3.000	4.00	11.5/6.7	84.0	19.0	0 ~ 19	3Kx1.5+1X1 ☆ -8	720x320x390	68.0	312	312
WQ50-7-3A(220-380V/60Hz)	3.000	4.00	11.5/6.7	72.0	13.0	0 ~ 13	3Kx1.5+1X1 ☆ -8	720x320x390	68.0	312	312
WQ50-10-3A(220-380V/60Hz)	3.000	4.00	11.5/6.7	84.0	19.0	0 ~ 19	3Kx1.5+1X1 ☆ -8	720x320x390	62.0	312	312
WQ40-15-4A(220-380V/60Hz)	4.000	5.50	15.2/8.8	70.0	22.0	0 ~ 22	3Kx2.5+1X1.5-8	755x325x395	80.0	289	289
WQ60-10-4A(220V-380V/60Hz)	4.000	5.50	15.2/8.8	92.0	18.0	0 ~ 18	3Kx2.5+1X1.5-8	800x335x395	83.0	265	265
WQ15-40-5.5A(220-380V/60Hz)	5.500	7.50	20.1/11.7	52.0	42.5	0 ~ 42.5	3Kx4+1X2.5-8	755x325x395	85.0	289	289
WQ30-30-5.5A(220-380V/60Hz)	5.500	7.50	39.0	37.0	37.0	0 ~ 37	3Kx4+1X2.5-8	800x320x380	88.0	288	288
WQ65-10-7.5A(220-380V/60Hz)	5.500	7.50	20.1/11.7	110.0	25.0	0 ~ 25	3Kx4+1X2.5-8	345x325x1050	103.0	238	238
WQ65-20-7.5A(220-380V/60Hz)	7.500	10.00	27.1/15.7	140.0	27.0	0 ~ 27	3Kx6+1X4-8	870x430x520	128.0	144	144
WQ100-10-7.5A(220-380V/60Hz)	7.500	10.00	27.1/15.7	140.0	27.0	0 ~ 27	3Kx6+1X4-8	870x430x520	131.0	144	144



Components & Materials

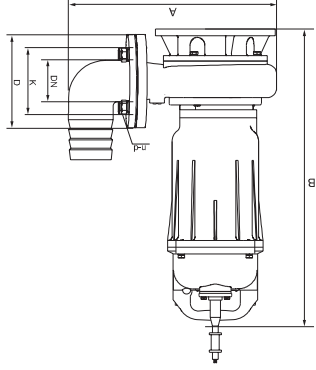


No.	Part name	No.	Part name	No.	Part name
101	Pump body	412-3	O-ring	812	Head cover
113	Oil chamber cover	412-4	O-ring	814	Stator core with winding
160	Oil chamber cover	412-5	O-ring	818	Rotor
230	Impeller	433-1	Mechanical seal	822	Upper bearing block
321-1	Deep groove ball bearing	433-2	Mechanical seal	825	Cable pressing plate
321-2	Deep groove ball bearing	550	Mechanical sealing	834	Cable sheath
411	Rubber washer	592	Base	940	Flat key
412-1	O-ring	720	Outlet joint	970	Nameplate
412-2	O-ring	811	Casing		

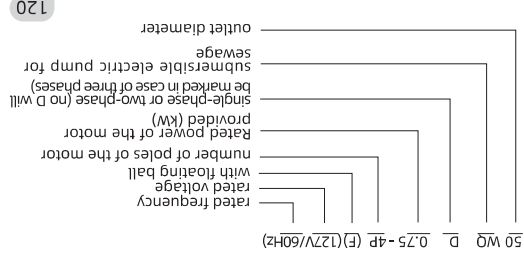
Submersible Sewage Pump

Dimensions & Weight

Model	Dim.(mm)		N.W. (kg)
	A	B	
WQD6-12-0.55AF(120V/60Hz)	245	435	19.0
WQD6-12-0.55A(220V/60Hz)	245	435	19.0
WQD6-16-0.75A(120V/60Hz)	245	425	21.0
WQD6-16-0.75F(120V/60Hz)	245	425	21.0
WQD6-16-0.75A(220V/60Hz)	245	435	21.0
WQD6-16-0.75F(220V/60Hz)	245	425	21.0
WQD10-10-0.75A(220V/60Hz)	297	440	26.0
WQ10-10-0.75A(220-380V/60Hz)	297	440	29.0
WQ15-7-0.75A(220-380V/60Hz)	297	435	30.0
WQD7-15-1.1A(115V/60Hz)	258	460	28.0
WQD7-15-1.1A(220V/60Hz)	258	460	28.0
WQ7-15-1.1A(220V-380V/60Hz)	254	460	28.0
WQD15-9-1.1A(220V/60Hz)	314	454	29.0
WQ15-9-1.1A(220V-380V/60Hz)	316	468	29.0
WQ12-15-1.5A(220V-380V/60Hz)	340	540	36.0
WQ18-15-1.5A(220V-380V/60Hz)	347	540	41.0
WQ25-7-1.5A(220V-380V/60Hz)	333	542	35.0
WQ25-10-1.5A(220V-380V/60Hz)	331	534	38.0
WQ9-22-2.2A(220V-380V/60Hz)	326	556	42.0
WQ15-20-2.2A(220V-380V/60Hz)	341	556	45.0
WQ25-15-2.2A(220V-380V/60Hz)	370	570	49.0
WQ35-7-2.2A(220V-380V/60Hz)	369	567	45.0
WQ42-9-2.2A(220V-380V/60Hz)	367	593	47.0
WQ15-30-3A(220V-380V/60Hz)	345	550	48.0
WQ20-2-2.2A(220-380V/60Hz)	360	560	49.0
WQ25-20-3A(220V-380V/60Hz)	236	552	48.0
WQ37-13-3A(220V-380V/60Hz)	360	563	54.0
WQ43-13-3A(220V-380V/60Hz)	400	602	62.0
WQ50-7-3A(220-380V/60Hz)	402	602	62.0
WQ50-10-3A(220-380V/60Hz)	402	602	62.0
WQ40-15-4A(220-380V/60Hz)	402	661	74.0
WQ60-10-4A(220V-380V/60Hz)	452	704	75.0
WQ15-40-5.5A(220-380V/60Hz)	396	670	78.0
WQ30-30-5.5A(220-380V/60Hz)	405	710	81.0
WQ65-15-5.5A(220-380V/60Hz)	452	826	93.0
WQ65-20-7.5A(220-380V/60Hz)	498	733	115.0
WQ80-15-7.5A(220-380V/60Hz)	498	733	115.0
WQ100-10-7.5A(220-380V/60Hz)	495	730	118.0



WQ(D)-4P



Model Instruction

- ③ A oil-filled quadrupole motor featured by steady and reliable operation.
- ③ The rotor spindle of an electric pump of this series is made through the friction welding of steel 45 and stainless steel 304, ensuring reliable mechanical strength and effectively improving the resistance of the spindle against abrasion and corrosion as well as assisting in the removal of the impeller for repair.
- ③ The impeller of the electric pump is made of QT450-10 which can effectively improve the abrasion performance of the impeller.
- ③ Two mechanical seals are connected in series, achieving stable performance and strong resistance against sand.
- ③ A diamond-shaped flange connector is good for change-over, which is convenient for change-over to a pipe with a different diameter, contributing to easy usage.
- ③ With strong discharge capacity: 1.5 inches for 50WQ (D) pump and 2 inches for 80WQ (D).

Features

This series of electric pumps are widely applied to industry, agriculture, hotels, hospitals, construction, municipal services, environmental protection, and other sectors. A 50WQ (D) pump with the discharge capacity of 1.5 inches can be used to process sewage, waste water and flood containing particles below 1.5 inches, while a 80WQ (D) with the discharge capacity of 2 inches can be utilized for the treatment of sewage, waste water and flood containing particles below 2 inches. This kind of pumps can be employed to pump liquid containing solid particles such as fiber, paper scrapped, or silt or soft solid objects, like muddy water, dusty water, domestic wastewater, sewage, and slurry, serving as ideal hydraulic units for drainage of sewage and flood and onsite construction, which, however, cannot be used in any place with the requirement for explosion proofing or any explosive or flammable place or used to treat any explosive or flammable liquid like oil, gasoline, kerosene, or ethyl alcohol.

Application

- ③ The temperature of the medium shall not exceed +40℃ ;
- ③ The PH value of the medium shall be 4~10 ;
- ③ The maximum density of the medium shall be 1.2×103kg/m³ ;
- ③ The frequency of the power supply shall be 60Hz; the voltage of the single-phase alternating current shall be 230V; the voltage fluctuation range shall be ±10% of the rated voltage; and
- ③ The submersion depth shall be no less than 0.5m and no more than 5m.

Application Limits

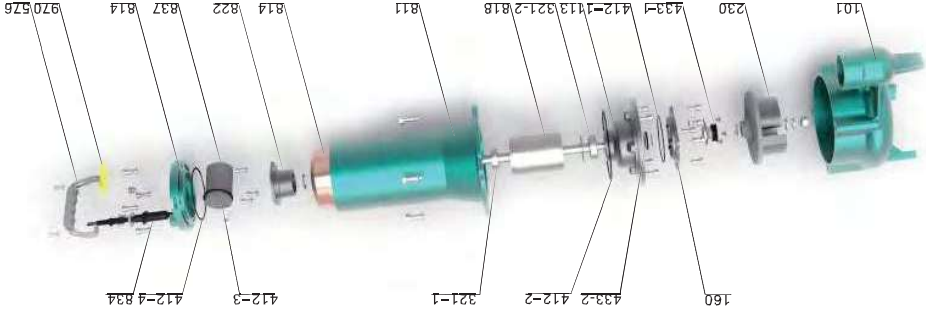
Maximum flow: 88 (m³/h)
Maximum lift: 13m

Performance Range

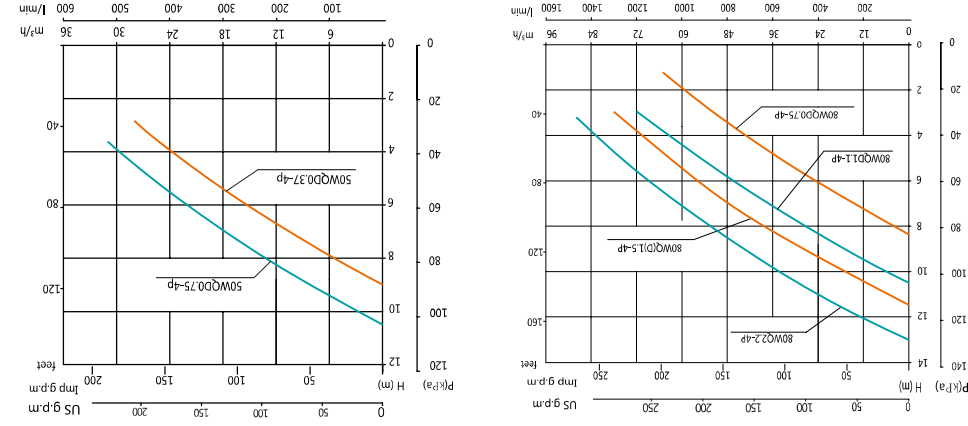
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Dimensions & Weight

No.	Part name	No.	Part name	No.	Part name
101	Pump body	412-2	O-ring	812	Head cover
113	Oil chamber	412-3	O-ring	814	Stator core with winding
160	Oil chamber cover	412-4	O-ring	818	Rotor
230	Impeller	433-1	Mechanical seal	822	Upper bearing block
321-1	Deep groove ball bearing	433-2	Mechanical seal	834	Cable
321-2	Deep groove ball bearing	576	Handle	837	Running capacitor
412-1	O-ring	811	Casing	970	Nameplate



Components & Materials



Performance Curve

SHIMGE® | 60Hz

60Hz | SHIMGE®

Submersible Sewage Pump



WQ

Performance Range

Max. Flow: 400m³/h
Max. Head: 46m

Application Limits

- Maximum liquid temperature +40°C
- pH level from 4-10
- Maximum liquid density 1.2x10³ kg/m³
- Voltage fluctuation range ± 10%
- Immersion depth from 0.5m-5m

Certificate



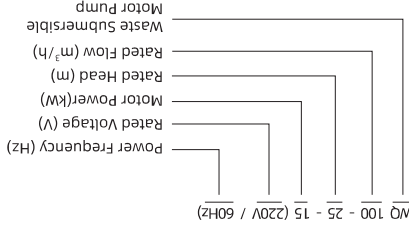
Application Fields

WQ(Single stage with high power) series pumps are widely applied in industry, agriculture, mining, construction, municipal, environmental protection, etc. They are suitable for draining water containing particles such as short fibers, paper scraps, etc. and soft solid, such as muddy water, dirty water, domestic wastewater, sewage, manure, etc. They are ideal equipment for agricultural irrigation and drainage, pool silt cleaning and site construction, but do not apply to the location with explosion-proof requirements.

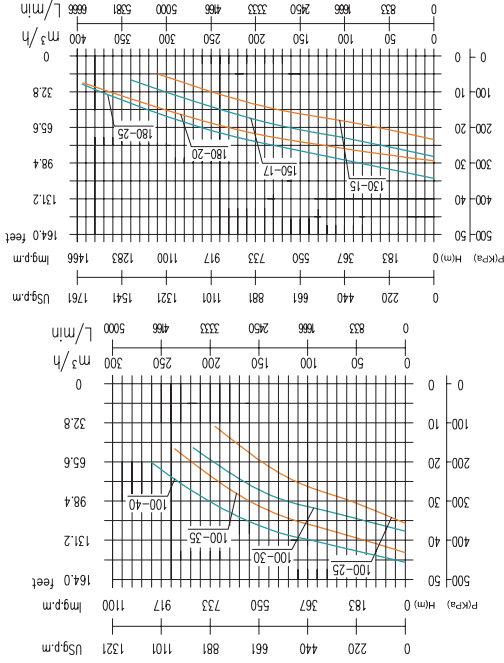
Features

- Large power submersible sewage pump, the standard flange outlet.
- Double channel impeller, good flowing capacity, excellent hydraulic performance.
- Stainless steel shaft extension and carbide double sides mechanical sealing.

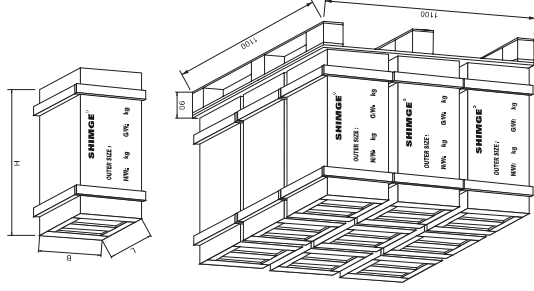
Model Instruction



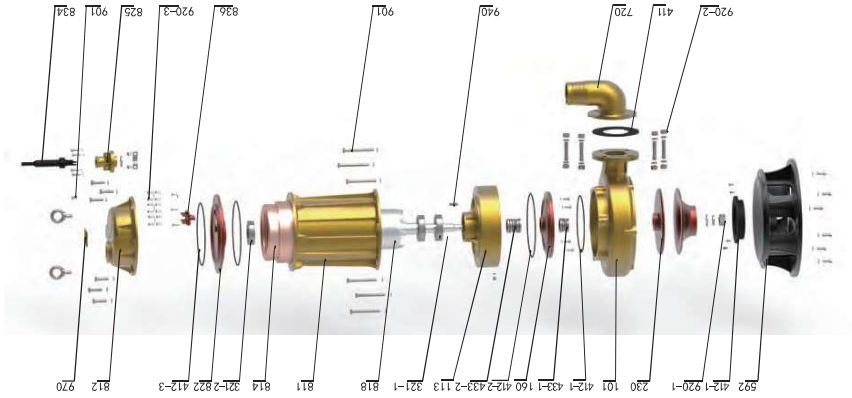
Performance Curve



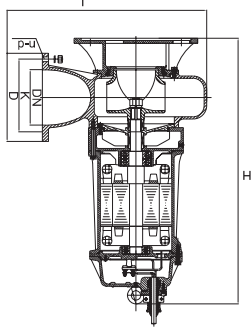
Model	Power		Rate Current (A)	Solids Passage (mm)	Max. Flow (m³/h)	Max. Head (m)	Head Range (m)	Cable line (m)	Dim. mm (LxWxH)	G.W. (kg)	20' Loading Qty. (pcs)
	kW	HP									
WQ130-15-11(220V/60Hz)	11	15	41	45	310	22	0~22	3X10+1X6-8	600X500X1290	271	36
WQ150-17-15(220V/60Hz)	15	20	55	55	310	28	0~28	3X10+1X6-8	600X500X1290	268	36
WQ100-30-18.5(220V/60Hz)	18.5	25	65	35	215	37	0~37	4X16-8	690X560X1230	365	27
WQ100-35-22(220V/60Hz)	22	30	77	35	235	42	20~42	4X16-8	690X600X1300	383	27
WQ180-20-22(220V/60Hz)	22	30	77	45	390	28	0~28	4X25-8	690X570X1350	400	27
WQ100-40-30(220V/60Hz)	30	40	105	35	260	44	25~44	4X25-8	690X600X1300	427	27
WQ180-25-30(220V/60Hz)	30	40	105	45	390	34	0~34	4X25-8	690X570X1350	417	27



Components & Materials



No.	Part name	No.	Part name	No.	Part name
101	Pump body	433-1	Mechanical seal	834	Cable sheath
160	Oil chamber cover	433-2	Mechanical seal	836	Terminal block
230	Impeller	592	Base	920-1	Hexagon nut - Style 1
321-1	Deep groove ball bearing	720	Outlet joint	920-2	Hexagon nut - Style 1
321-2	Deep groove ball bearing	811	Casing	920-3	Hexagon nut - Style 1
411	Rubber washer	812	Head cover	940	Flat key
412-1	O-ring	814	Stator core with winding	970	Nameplate
412-2	O-ring	818	Rotor	752-1	Check valve seal
412-3	O-ring	822	Upper bearing block		
412-4	O-ring	825	Cable pressing plate		



Model	Dim.(mm)					N.W. (kg)
	N STAGES	L	H	DN	D	
WQ130-15-11(220V/60Hz)	1	575	1030	150	280	241.5
WQ150-17-15(220V/60Hz)	1	550	1030	100	229	190.5
WQ180-25-17(220V/60Hz)	1	550	1030	100	229	190.5
WQ100-30-18.5(220V/60Hz)	1	615	1110	100	229	190.5
WQ100-35-22(220V/60Hz)	1	615	1100	100	229	190.5
WQ180-20-22(220V/60Hz)	1	580	1110	150	280	241.5
WQ100-40-30(220V/60Hz)	1	615	1235	100	229	190.5
WQ180-25-30(220V/60Hz)	1	580	1245	150	280	241.5

Dimensions & Weight

Disc Cutting Sewage Pump



WQ-QG

Performance Range

- ◎ Max. Flow: 120m³/h
- ◎ Max. Head: 40m

Application Limits

- ◎ Maximum liquid temperature +40℃
- ◎ pH level from 4-10
- ◎ Maximum liquid density 1.2×10³kg/m³
- ◎ Power frequency is 50Hz, Normal voltage is 380VAC
- ◎ for three phase with the range from -10% to +10%
- ◎ Immersion depth from 0.5m-5m

Certificate



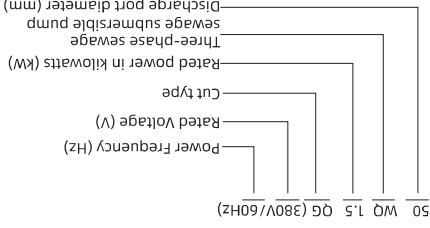
Application Fields

- ◎ Extract domestic sewage
- ◎ Excluding industrial sewage
- ◎ Biogas digesters
- ◎ Sewage treatment
- ◎ Aquaculture sewage

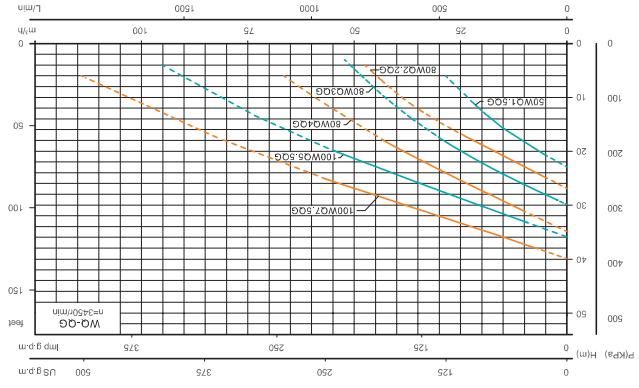
Product Usage

WQ-QG disc cutting sewage submersible pump, implementing Q/SG151 standard. The electric pump is mainly composed of three parts: electric motor, water pump and seal. The motor is located at the upper part of the electric pump. The motor is a two-pole motor. The water pump is located in the lower part of the electric pump. The oil chamber uses a single-end mechanical seal, and the pump chamber uses a single-end mechanical seal. Each fixed seal is made of "O" oil-resistant rubber seal for static sealing to ensure the reliability of the electric pump rotor shaft. The electric pump rotor shaft is composed of 45 steel and 304 stainless steel. The electric pump rotor shaft is reliable mechanical strength of the shaft, which can effectively improve the wear resistance and corrosion resistance of the shaft, and also facilitate the maintenance and disassembly of the impeller. The water inlet of the electric pump is equipped with a cutting disc, the impeller rotates at a high speed, the cutting disc is fixed on the pump body, and the long fiber cloth, hair and other debris in the water can be chopped during operation, and the gap between the spiral impeller and the cutting disc is small.

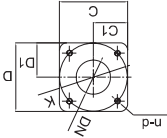
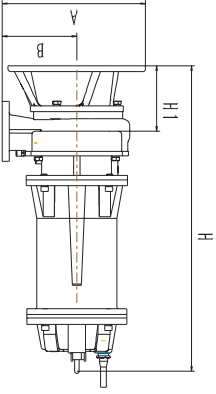
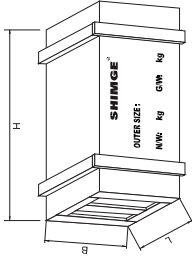
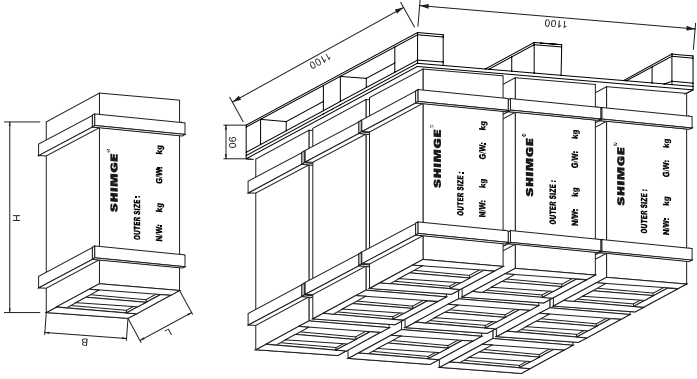
Model Instruction



Performance Curve



Model	Power		Rate	Max. Flow (m³/h)	Max. Head (m)	Head Range (m)	Cable line (m)	Dim. mm (LxBxH)	G.W. (kg)	20" Loading Qty. (pcs)
	kW	HP								
50WQ1.5QG(380V/60Hz)	1.5	2	3.6	35	24	13-21	4x0.75-8	270x300x610	36	550
80WQ2.2QG(380V/60Hz)	2.2	3	5.1	60	27	17-25	4x0.75-8	270x330x610	40	500
80WQ3.0QG(380V/60Hz)	3	4	6.7	65	30	18-29	4x1-8	270x330x630	42	480
80WQ4.0QG(380V/60Hz)	4	5.5	8.8	80	31	18-31	3x1.5+1x1-8	270x345x690	54	420
100WQ5.5QG(380V/60Hz)	5.5	7.5	11.7	110	35	20-33	3x1.5+1x1-8	270x345x750	61	385
100WQ7.5QG(380V/60Hz)	7.5	10	15.7	125	38	25-38	3x2.5+1x1.5-8	285x360x750	83	350



Dimensions & Weight

Model	Dim.(mm)										N.W. (kg)
	H	H1	A	B	DN	K	C	C1	D	D1	n-d
50WQ1.5QG(380V/60Hz)	537	115	250	130	50	106	105	52.5	105	52.5	4-M10
80WQ2.2QG(380V/60Hz)	532	109	280	160	65	124.5	125	62.5	125	62.5	4-M10
80WQ3.0QG(380V/60Hz)	552	109	280	160	65	124.5	125	62.5	125	62.5	4-M10
80WQ4.0QG(380V/60Hz)	617	128	300	180	80	124.5	125	62.5	125	62.5	4-M10
100WQ5.5QG(380V/60Hz)	651	118	300	180	80	124.5	125	62.5	125	62.5	4-M12
100WQ7.5QG(380V/60Hz)	675	131	312.5	190	100	163	163	81.5	163	81.5	4-M12

Components & Materials

