



AT PUMP

Focus on industrial submersible pumps



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Jining Antai Mine Equipment Manufacturing Co., Ltd.
Specialization • Scale • Branding • Internationalization



**KEEP FAITH IN MIND
AND DO OUR BEST**



COMPANY PROFILE

200,000^{m²}
Covers an area

50,000^{sets}
Annual capacity

300⁺
Excellent staff

Established in 2005, Jining Antai Mine Equipment Manufacturing Co.,Ltd.is one of the leading industrial submersible pump manufacturers in China, which is specialized in the research, development, manufacture, marketing and service of submersible pumps.

After 18 years of development, Antai Pump currently covers an area of 200,000 square meters, with fixed assets of 600 million Yuan. The company now has an annual production capacity of more than 50,000 sets of mining and industrial explosion-proof sewage submersible pump. Antai Pump has 6 series of pumps as total of 800 models which covers explosion-proof submersible drainage pumps for mine, high-voltage explosion-proof submersible pumps for mine, explosion-proof submersible sewage pumps for industrial, pneumatic desilting pump, pneumatic diaphragm pump, pneumatic submersible pump. Our products are of reasonable price and excellent quality and are widely used in the mining, petrochemical, natural gas engineering, civil engineering, industrial wastewater, sewage treatment, flood control and more.

So far, Antai Pump is the national high-tech enterprise and has obtained 86 invention patents and scientific & technological achievements, in addition, our trademark has been appraised as "China famous trademark". The company has passed the ISO9001, ISO14001, OHSAS18001, CE and other international certifications.

Antai Pump has built long-term strong relationship with many well -know companies, including China Shenhua, China National Coal Group, CNPC, SINOPEC, Sinohydro Group Ltd., YANCON GROUP etc. Zijin Mining, the company has also established stable and good cooperation with business partners from Russia, Australia, Peru, Chile and South Africa etc.

Antai Pump holds the belief that " only use the best material for the most durable pumps", keeping the focus on the customers' requirement. With excellent quality and service, Antai Pump warmly welcomes customers from at home and abroad to build cooperation with us !

CHINA'S INTELLIGENT MANUFACTURING BENCHMARKING ENTERPRISE

OUR ADVANTAGES

1. Our foundry-to control material from the source.
2. First-class R&D team-design independently according to special usage scenarios.
3. Largest testing platform in China.
4. Modern automated processing centers- more accurate and efficient.
5. Sufficient inventory.



Automatic welding



Automatic components machining line



Automatic casting line



Automatic assembly production line



01



02



03



04



05

APPLICATION FIELDS



Mining



River and Flood Control



Industry and Energy



Wastewater Treatment

CLASSIC CASE



Baihetan Hydropower Station



Beijing Daxing International Airport



Sichuan-Tibet Railway



Xiong'an New Area Underground Pipe Gallery

ENTERPRISE QUALIFICATION

Jining Antai Mine Equipment Manufacturing Co., Ltd. adheres to innovation and pursues excellence, and is committed to building the first brand of China's mining pumps, creating the "Antai speed" which is the envy of the industry. With its professional and dedicated enterprise advantages, it has rapidly grown into a leading enterprise in the domestic mining pump industry, among the "China Industrial Influential Enterprise", "China Top 10 Mining Pump Manufacturing Enterprises", "China Industrial Pioneer Demonstration Unit", "Shandong Province SRDI (Specialized; Refinement; Differential; Innovation) Small and Medium Enterprises", "Shandong Province Invisible Champion", "Shandong Province Gazelle Enterprise". The company was also awarded the honorary title of "Enterprise Growth Star" in the 2019 World Manufacturing Congress, leaping into the ranks of global high-growth enterprises with continuous innovation capability and strong driving effect in a new posture.



Famous Trade of China



Academician Workstation



ISO 14001



ISO 45001



ISO 9001



CE



BQS Energy-saving product certification



BQS Energy-saving product certification

Cooperative Unit



Gazelle Enterprise in Shandong



"Specialized Fined Peculiar and Innovative" Small and Medium-Sized Enterprise in Shandong



Little Giant Enterprise



AT PUMP

MEMBER DISPLAY



BQ series



FQW series



BQG series



QYF series



BQS series



WQ(B) series



Stainless steel pump



Intelligent pump








BQS series

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| 01-08 | BQ BQ series mining high voltage explosion-proof submersible pump |
| 09-20 | BQS BQS series mining explosion-proof submersible drainage pump |
| 21-27 | WQB WQ(B) series explosion-proof submersible sewage pump |
| 28-29 | BQG / FQW BQG series mining pneumatic diaphragm pump FQW series mining pneumatic submersible pump |
| 30-31 | QYF QYF series mining pneumatic desilting pump |
| 32-33 | After-sales service |

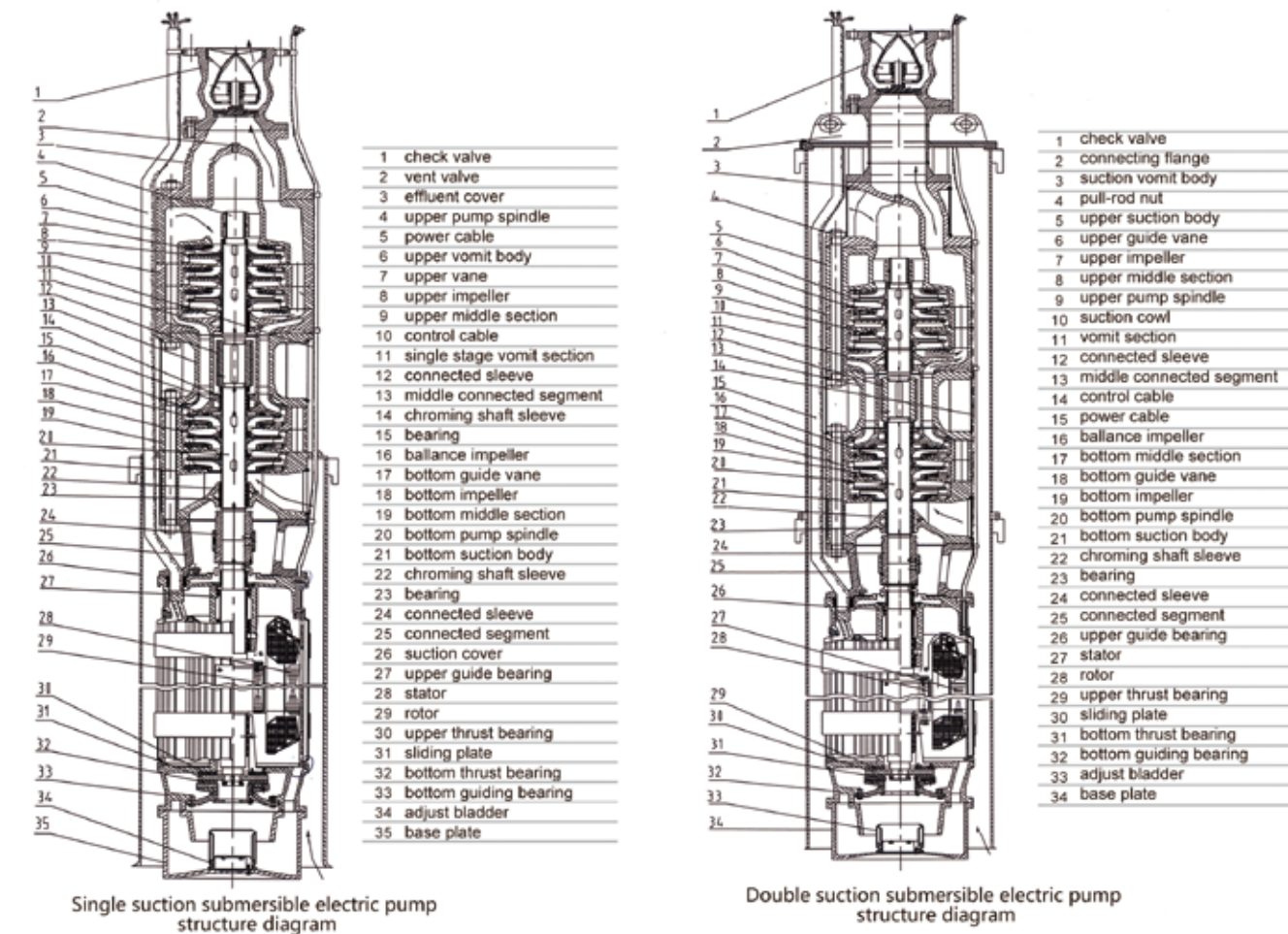
BQ SERIES MINING HIGH VOLTAGE EXPLOSION-PROOF SUBMERSIBLE PUMP

Outstanding features

-  Energy-efficiency
-  Safety and anti-explosion
-  Large flow and high head.
-  Easy installation and operation
-  Advanced and reliable technology



Structure introduction



Main application

This series of products are designed and manufactured according to GB3836.1-2010 explosive environment standard.
Part I: Facility general requirements and GB3836.2-2010 explosive environment standard.
Part II: Equipment standard of explosion-proof shell "d" protection, type of anti-explosion is explosion-proof, known as EXdI, which is applicable for mines containing an explosive gas, such as methane or coal dust and so on, where the mine is drained for routine operation, rescue and relief work or mine-recovery.

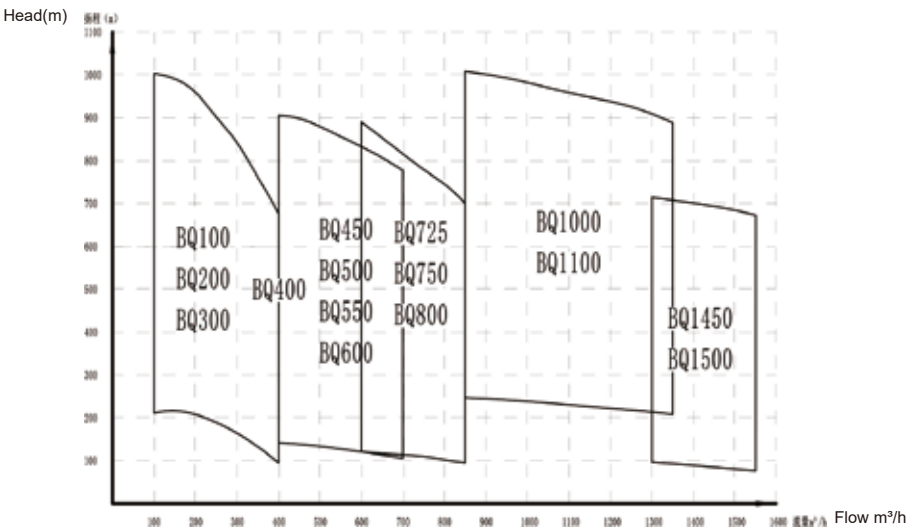
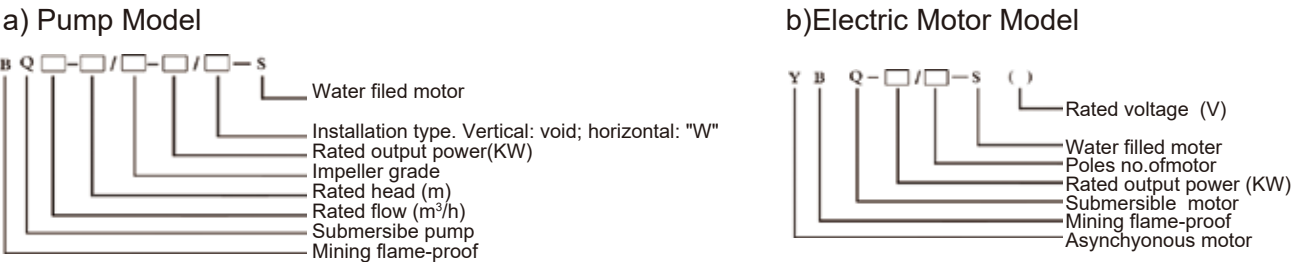
Working condition

- 1.Voltage: 6000V or 10000V
- 2.Medium: PH4-10
- 3.Water temperature: ≤50℃
- 4.Solid content: ≤10%
- 5.Installation: vertical, horizontal or inclined
- 6.Submergence depth: ≤700m. The minimum submerging level should be above than the check valve's output flange.
- 7.Customized design is available to meet customers' demands according to user's special environment requirements.

Complete set of supply range

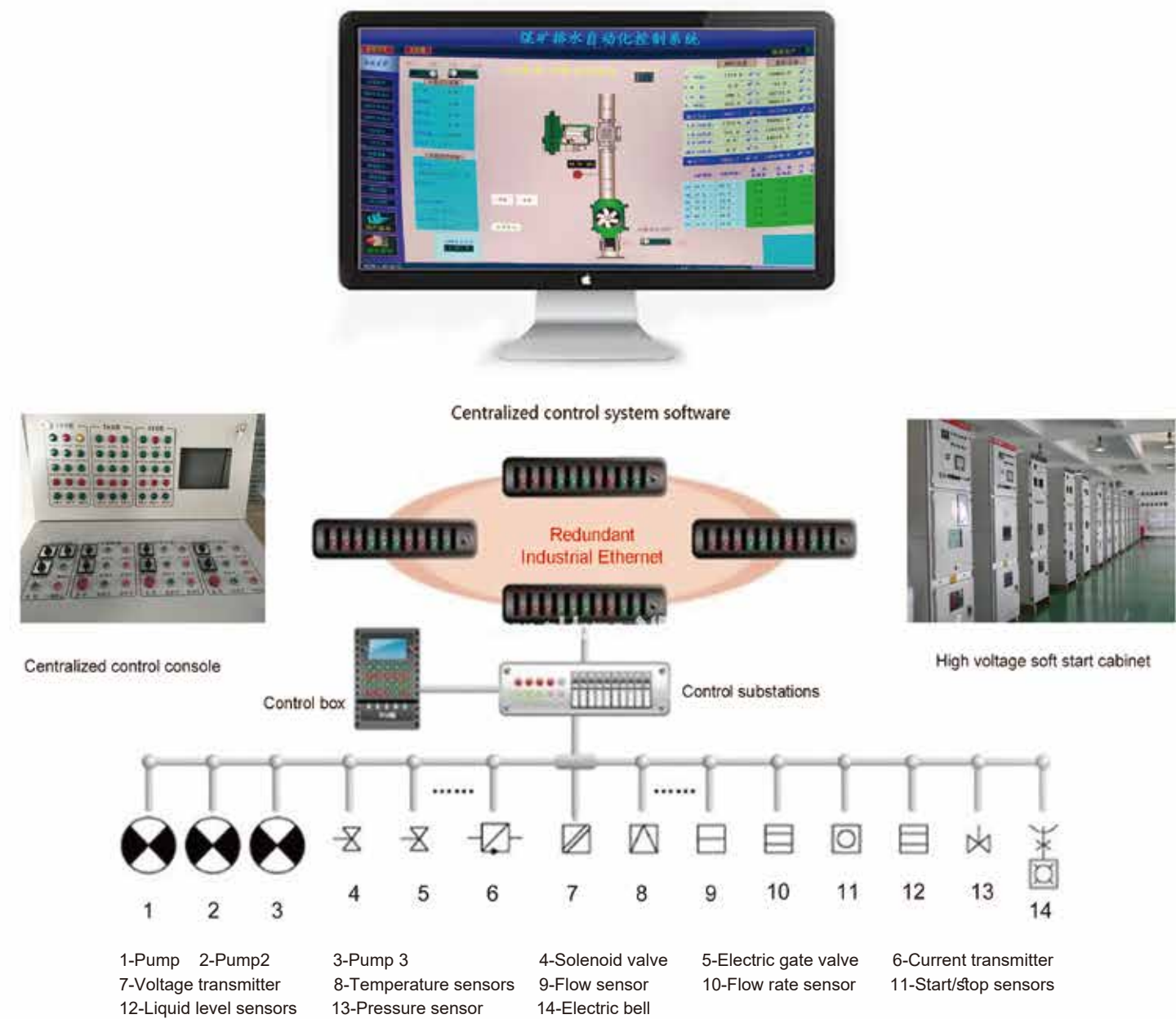
The whole electric pump consists of three parts:
(1) Main engine: pump, electric motor, pump-motor connecting unit, pump-motor coupling band and fasteners.
(2) Installation system: suction cover, connecting flange, check valve, lifting pipe, sluice valve, etc.
(3) Control system: cable, electric control cabinet.
BQ series mining explosion-proof submersible electric pump is also equipped with installation system and automatic control system connected with the mining monitoring internet in order to achieve the ground monitoring.

Model and meaning



BQ

BQ series performance parameters



System description

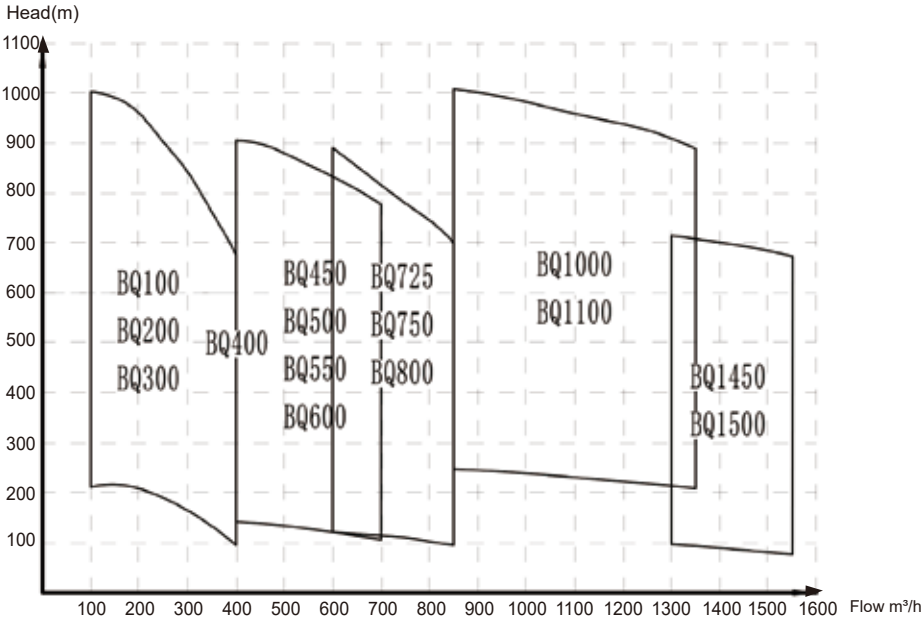
The system is based on industrial control computer or explosion-proof PLC, through all kinds of advanced and reliable sensors, protective devices, electric actuators and so on to monitor the working state of the mine underground drainage system equipment, the automatic control of the underground pump drainage system is realized, the pump drainage system is safe, reliable, energy-saving, efficient, economic and reasonable operation, thus realizing the goal of reducing people and increasing efficiency, safe production. The system can also be used for long-distance monitoring and control of large and medium-sized pumping stations and pumps in factories and mining enterprises.



| Model | Flow (m³/h) | Head (m) | Impeller grade | Efficiency of pump (%) | Synchronous speed (r/min) | Rated output power (kW) | Rated voltage (KV) | Outlet diameter (mm) |
|-----------------------|-------------|----------|----------------|------------------------|---------------------------|-------------------------|--------------------|----------------------|
| BQ100-595/6-355/WS | 100 | 595 | 6 | 71.32 | 1500 | 355 | 6/10 | 100 |
| BQ100-600/7-400/WS | | 600 | 7 | | | 400 | | |
| BQ100-680/8-400/WS | | 680 | 8 | | | 400 | | |
| BQ100-765/9-450/WS | | 765 | 9 | | | 450 | | |
| BQ100-850/10-500/WS | | 850 | 10 | | | 500 | | |
| BQ100-935/11-560/WS | | 935 | 11 | | | 560 | | |
| BQ100-1020/12-630/WS | | 1020 | 12 | | | 630 | | |
| BQ100-1110/13-710/WS | | 1110 | 13 | | | 710 | | |
| BQ150-450/5-400/WS | 150 | 450 | 5 | 72.63 | 1500 | 400 | 6/10 | 150 |
| BQ150-510/6-400/WS | | 510 | 6 | | | 400 | | |
| BQ150-600/7-500/WS | | 600 | 7 | | | 500 | | |
| BQ150-680/8-560/WS | | 680 | 8 | | | 560 | | |
| BQ150-765/9-630/WS | | 765 | 9 | | | 630 | | |
| BQ150-850/10-710/WS | | 850 | 10 | | | 710 | | |
| BQ150-935/11-800/WS | | 935 | 11 | | | 800 | | |
| BQ150-1020/12-900/WS | | 1020 | 12 | | | 900 | | |
| BQ200-350/4-400/ WS | 200 | 350 | 4 | 74.55 | 1500 | 400 | 6/10 | 200 |
| BQ200-425/5-450/ WS | | 425 | 5 | | | 450 | | |
| BQ200-510/6-500/WS | | 510 | 6 | | | 500 | | |
| BQ200-600/7-630/WS | | 600 | 7 | | | 630 | | |
| BQ200-680/8-710/WS | | 680 | 8 | | | 710 | | |
| BQ200-765/9-800/WS | | 765 | 9 | | | 800 | | |
| BQ200-850/10-900/WS | | 850 | 10 | | | 900 | | |
| BQ200-935/11-1000/WS | | 935 | 11 | | | 1000 | | |
| BQ200-1020/12-1000/WS | 280 | 1020 | 12 | 78.73 | 1500 | 1000 | 6/10 | 250 |
| BQ200-1110/13-1120/WS | | 1110 | 13 | | | 1120 | | |
| BQ280-340/4-400/WS | | 340 | 4 | | | 400 | | |
| BQ280-425/5-500/WS | | 425 | 5 | | | 500 | | |
| BQ280-540/6-630/WS | | 540 | 6 | | | 630 | | |
| BQ280-650/7-800/WS | | 650 | 7 | | | 800 | | |
| BQ280-730/8-900/WS | | 730 | 8 | | | 900 | | |
| BQ280-850/9-1000/WS | | 850 | 9 | | | 1000 | | |
| BQ280-920/10-1120/WS | 300 | 920 | 10 | 78.78 | 1500 | 1120 | 6/10 | 250 |
| BQ280-1035/11-1200/WS | | 1035 | 11 | | | 1200 | | |
| BQ280-1200/12-1400/WS | | 1200 | 12 | | | 1400 | | |
| BQ280-1330/13-1600/WS | | 1330 | 13 | | | 1600 | | |
| BQ280-1445/14-1800/WS | | 1445 | 14 | | | 1800 | | |
| BQ300-270/3-400/WS | | 270 | 3 | | | 400 | | |
| BQ300-360/4-500/WS | | 360 | 4 | | | 500 | | |
| BQ300-450/5-630/WS | | 450 | 5 | | | 630 | | |
| BQ300-510/6-710/WS | 400 | 510 | 6 | 78.80 | 1500 | 710 | 6/10 | 250 |
| BQ300-595/7-800/WS | | 595 | 7 | | | 800 | | |
| BQ400-255/3-450/WS | | 255 | 3 | | | 450 | | |
| BQ400-340/4-630/WS | | 340 | 4 | | | 630 | | |
| BQ400-425/5-800/WS | | 425 | 5 | | | 800 | | |
| BQ400-510/6-900/WS | | 510 | 6 | | | 900 | | |
| BQ400-600/7-1000/WS | | 600 | 7 | | | 1000 | | |
| BQ400-680/8-1120/WS | | 680 | 8 | | | 1120 | | |
| BQ400-765/9-1400/WS | 400 | 765 | 9 | 78.80 | 1500 | 1400 | 6/10 | 250 |
| BQ400-850/10-1600/WS | | 850 | 10 | | | 1600 | | |
| BQ400-935/11-1800/WS | | 935 | 11 | | | 1800 | | |
| BQ400-1020/12-1900/WS | | 1020 | 12 | | | 1900 | | |

| Model | Flow (m³/h) | Head (m) | Impeller grade | Efficiency of pump (%) | Synchronous speed (r/min) | Rated output power (kW) | Rated voltage (KV) | Outlet diameter (mm) |
|-----------------------|----------------|-------------|-------------------|------------------------------|---------------------------------|-------------------------------|--------------------------|----------------------------|
| BQ450-170/2-355/WS | 450 | 170 | 2 | 78.82 | 1500 | 355 | 6/10 | 250 |
| BQ450-255/3-500/WS | | 255 | 3 | | | 500 | | |
| BQ450-350/4-630/WS | | 350 | 4 | | | 630 | | |
| BQ450-425/5-800/WS | | 425 | 5 | | | 800 | | |
| BQ450-510/6-1000/WS | | 510 | 6 | | | 1000 | | |
| BQ500-240/3-500/WS | 500 | 240 | 3 | 78.82 | 500 | 500 | 6/10 | 250 |
| BQ500-280/3-560/WS | | 280 | 3 | | | 560 | | |
| BQ500-340/4-630/WS | | 340 | 4 | | | 630 | | |
| BQ500-360/4-710/WS | | 360 | 4 | | | 710 | | |
| BQ500-440/5-900/WS | | 440 | 5 | | | 900 | | |
| BQ500-520/6-1000/WS | | 520 | 6 | | | 1000 | | |
| BQ500-560/6-1120/WS | | 560 | 6 | | | 1120 | | |
| BQ500-630/7-1200/WS | | 630 | 7 | | | 1200 | | |
| BQ500-720/8-1400/WS | | 720 | 8 | | | 1400 | | |
| BQ500-810/9-1600/WS | | 810 | 9 | | | 1600 | | |
| BQ500-920/10-1800/WS | | 920 | 10 | | | 1800 | | |
| BQ500-1000/11-2000/WS | | 1000 | 11 | | | 2000 | | |
| BQ500-1080/12-2200/WS | | 1080 | 12 | | | 2200 | | |
| BQ550-170/2-400/WS | 550 | 170 | 2 | 78.83 | 1500 | 400 | 6/10 | 250 |
| BQ550-255/3-560/WS | | 255 | 3 | | | 560 | | |
| BQ550-340/4-800/WS | | 340 | 4 | | | 800 | | |
| BQ550-430/5-1000/WS | | 430 | 5 | | | 1000 | | |
| BQ550-515/6-1200/WS | 550 | 515 | 6 | 78.83 | 1500 | 1200 | 6/10 | 250 |
| BQ550-600/7-1400/WS | | 600 | 7 | | | 1400 | | |
| BQ550-690/8-1600/WS | | 690 | 8 | | | 1600 | | |
| BQ550-770/9-1800/WS | | 770 | 9 | | | 1800 | | |
| BQ550-855/10-2000/WS | | 855 | 10 | | | 2000 | | |
| BQ550-940/11-2200/WS | | 940 | 11 | | | 2200 | | |
| BQ550-1105/13-2500/WS | | 1105 | 13 | | | 2500 | | |
| BQ550-1275/15-2800/WS | | 1275 | 15 | | | 2800 | | |
| BQ550-1445/17-3150/WS | | 1445 | 17 | | | 3150 | | |
| BQ550-1630/19-3550/WS | | 1630 | 19 | | | 3550 | | |
| BQ550-1710/20-4000/WS | | 1710 | 20 | | | 4000 | | |
| BQ600-170/2-450/WS | 600 | 170 | 2 | 78.85 | 1500 | 450 | 6/10 | 250 |
| BQ600-255/3-710/WS | | 255 | 3 | | | 710 | | |
| BQ600-340/4-900/WS | | 340 | 4 | | | 900 | | |
| BQ600-430/5-1120/WS | | 430 | 5 | | | 1120 | | |
| BQ600-515/6-1400/WS | | 515 | 6 | | | 1400 | | |
| BQ600-600/6-1800/WS | | 600 | 6 | | | 1800 | | |
| BQ725-132/3-400/WS | 725 | 132 | 3 | 78.85 | 1500 | 400 | 6/10 | 250 |
| BQ725-160/4-500/WS | | 160 | 4 | | | 500 | | |
| BQ725-215/5-630/WS | | 215 | 5 | | | 630 | | |
| BQ725-265/6-710/WS | | 265 | 6 | | | 710 | | |
| BQ725-290/7-800/WS | | 290 | 7 | | | 800 | | |
| BQ725-320/8-900/WS | | 320 | 8 | | | 900 | | |
| BQ725-360/9-1000/WS | | 360 | 9 | | | 1000 | | |
| BQ725-400/10-1120/WS | | 400 | 10 | | | 1120 | | |
| BQ725-480/12-1200/WS | | 480 | 12 | | | 1200 | | |
| BQ725-520/13-1400/WS | | 520 | 13 | | | 1400 | | |
| BQ725-600/15-1600/WS | | 600 | 15 | | | 1600 | | |
| BQ725-640/16-1800/WS | | 640 | 16 | | | 1800 | | |
| BQ725-690/17-1900/WS | | 690 | 17 | | | 1900 | | |
| BQ725-720/18-2000/WS | | 720 | 18 | | | 2000 | | |
| BQ725-765/19-2200/WS | | 765 | 19 | | | 2200 | | |
| BQ750-840/12-2800/WS | 750 | 840 | 12 | 750 | 1500 | 2800 | 6/10 | 250 |
| BQ750-910/13-3150/WS | | 910 | 13 | | | 3150 | | |
| BQ750-960/14-3550/WS | | 960 | 14 | | | 3550 | | |
| BQ800-289/8-1000/WS | 800 | 289 | 8 | 78.86 | 1500 | 1000 | 6/10 | 300 |
| BQ1000-100-400/WS | 1000 | 100 | 1 | 79.24 | 1500 | 400 | 6/10 | 350 |

| Model | Flow (m³/h) | Head (m) | Impeller grade | Efficiency of pump (%) | Synchronous speed (r/min) | Rated output power (kW) | Rated voltage (KV) | Outlet diameter (mm) |
|------------------------|----------------|-------------|-------------------|------------------------------|---------------------------------|-------------------------------|--------------------------|----------------------------|
| BQ1000-200/2-800/WS | 1000 | 200 | 2 | 79.24 | 1500 | 800 | 6/10 | 350 |
| BQ1000-270/3-1120/WS | | 270 | 3 | | | 1120 | | |
| BQ1000-395/4-1600/WS | | 395 | 4 | | | 1600 | | |
| BQ1000-450/5-1800/WS | | 450 | 5 | | | 1800 | | |
| BQ1000-560/6-2200/WS | | 560 | 6 | | | 2200 | | |
| BQ1000-600/7-2500/WS | | 600 | 7 | | | 2500 | | |
| BQ1000-725/8-2800/WS | | 725 | 8 | | | 2800 | | |
| BQ1000-810/9-3150/WS | | 810 | 9 | | | 3150 | | |
| BQ1000-880/10-3550/WS | | 880 | 10 | | | 3550 | | |
| BQ1000-960/11-4000/WS | | 960 | 11 | | | 4000 | | |
| BQ1000-1050/12-4500/WS | | 1050 | 12 | | | 4500 | | |
| BQ1100-100-450/WS | 1100 | 100 | 1 | 79.36 | 1500 | 450 | 6/10 | 350 |
| BQ1100-170/2-800/WS | | 170 | 2 | | | 800 | | |
| BQ1100-255/3-1200/WS | | 255 | 3 | | | 1200 | | |
| BQ1100-340/4-1600/WS | | 340 | 4 | | | 1600 | | |
| BQ1100-430/5-2000/WS | | 430 | 5 | | | 2000 | | |
| BQ1100-510/6-2500/WS | | 510 | 6 | | | 2500 | | |
| BQ1100-595/7-2800/WS | | 595 | 7 | | | 2800 | | |
| BQ1100-680/8-3150/WS | | 680 | 8 | | | 3150 | | |
| BQ1100-780/9-3550/WS | | 780 | 9 | | | 3550 | | |
| BQ1100-850/10-4000/WS | | 850 | 10 | | | 4000 | | |
| BQ1100-935/11-4500/WS | | 935 | 11 | | | 4500 | | |
| BQ1450-85/2-500/WS | 1450 | 85 | 2 | 79.52 | 1500 | 500 | 6/10 | 350 |
| BQ1450-135/3-710/WS | | 135 | 3 | | | 710 | | |
| BQ1450-160/4-900/WS | | 160 | 4 | | | 900 | | |
| BQ1450-200/5-1000/WS | | 200 | 5 | | | 1000 | | |
| BQ1450-240/6-1200/WS | | 240 | 6 | | | 1200 | | |
| BQ1450-280/7-1400/WS | | 280 | 7 | | | 1400 | | |
| BQ1450-295/7-1600/WS | | 295 | 7 | | | 1600 | | |
| BQ1450-320/8-1800/WS | | 320 | 8 | | | 1800 | | |
| BQ1450-360/9-2000/WS | | 360 | 9 | | | 2000 | | |
| BQ1450-400/10-2200/WS | | 400 | 10 | | | 2200 | | |
| BQ1500-420/6-2800/WS | 1500 | 420 | 6 | 79.64 | 1500 | 2800 | 6/10 | 350 |
| BQ1500-490/7-3150/WS | | 490 | 7 | | | 3150 | | |
| BQ1500-560/8-3550/WS | | 560 | 8 | | | 3550 | | |
| BQ1500-630/9-4000/WS | | 630 | 9 | | | 4000 | | |
| BQ1500-680/10-4500/WS | | 680 | 10 | | | 4500 | | |



| Model | Rated Power (kw) | Rated voltage (kv) | Rated current (A) | Efficiency (%) | Powey facto (cos) r | Synchronous speed (r/min) | Connection | Starting current ratio | Starting torque ratio | Maximum rorque ratio | | | | | | | | | | | |
|--------------------|------------------|--------------------|-------------------|----------------|---------------------|---------------------------|------------|------------------------|-----------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| YBQ-355/4S(6000) | 355 | 6 | 44.8 | 89 | 0.85 | 1500 | Y | 6.5 | 1.8 | 0.8 | | | | | | | | | | | |
| YBQ-400/4S(6000) | 400 | | 49.6 | | | | | | | | | | | | | | | | | | |
| YBQ-450/4S(6000) | 450 | | 55.3 | | | | | | | | | | | | | | | | | | |
| YBQ-500/4S(6000) | 500 | | 61.5 | 90 | 0.86 | | | | | | | | | | | | | | | | |
| YBQ-560/4S(6000) | 560 | | 68 | | | | | | | | | | | | | | | | | | |
| YBQ-630/4S(6000) | 630 | | 72.4 | | | | | | | | | | | | | | | | | | |
| YBQ-710/4S(6000) | 710 | | 85.5 | 91 | | | | | | | | | | | | | | | | | |
| YBQ-800/4S(6000) | 800 | | 96.6 | | | | | | | | | | | | | | | | | | |
| YBQ-900/4S(6000) | 900 | | 107.2 | | | | | | | | | | | | | | | | | | |
| YBQ-1000/4S(6000) | 1000 | | 118.8 | 91.5 | | | | | | | | | | | | | | | | | |
| YBQ-1120/4S(6000) | 1120 | | 133 | | | | | | | | | | | | | | | | | | |
| YBQ-1200/4S(6000) | 1200 | | 142 | 92 | 0.87 | | | | | | | | | | | | | | | | |
| YBQ-1400/4S(6000) | 1400 | | 168.4 | | | | | | | | | | | | | | | | | | |
| YBQ-1600/4S(6000) | 1600 | | 192.5 | | | | | | | | | | | | | | | | | | |
| YBQ-1800/4S(6000) | 1800 | | 216.6 | | | | | | | | | | | | | | | | | | |
| YBQ-1900/4S(6000) | 1900 | | 243.6 | | | | | | | | | | | | | | | | | | |
| YBQ-2000/4S(6000) | 2000 | | 251.7 | | | | | | | | | | | | | | | | | | |
| YBQ-2200/4S(6000) | 2200 | | 266.6 | 91 | 0.88 | | | | | | | | | | | | | | | | |
| YBQ-2500/4S(6000) | 2500 | | 300.4 | | | | | | | | | | | | | | | | | | |
| YBQ-2800/4S(6000) | 2800 | | 336.5 | | | | | | | | | | | | | | | | | | |
| YBQ-3150/4S(6000) | 3150 | | 374.4 | 92 | 0.89 | | | | | | | | | | | | | | | | |
| YBQ-3550/4S(6000) | 3550 | | 417.2 | | | | | | | | | | | | | | | | | | |
| YBQ-4000/4S(6000) | 4000 | | 470.1 | | | | | | | | | | | | | | | | | | |
| YBQ-4500/4S(6000) | 4500 | | 528.8 | | | | | | | | | | | | | | | | | | |
| YBQ-355/4S(10000) | 355 | 10 | 29 | 89 | 0.85 | 1500 | Y | 6.5 | 1.8 | 0.8 | | | | | | | | | | | |
| YBQ-400/4S(10000) | 400 | | 31.6 | | | | | | | | | | | | | | | | | | |
| YBQ-450/4S(10000) | 450 | | 35.6 | | | | | | | | | | | | | | | | | | |
| YBQ-500/4S(10000) | 500 | | 39.3 | 90 | 0.86 | | | | | | | | | | | | | | | | |
| YBQ-560/4S(10000) | 560 | | 44.1 | | | | | | | | | | | | | | | | | | |
| YBQ-630/4S(10000) | 630 | | 48.7 | | | | | | | | | | | | | | | | | | |
| YBQ-710/4S(10000) | 710 | | 55.8 | 91 | | | | | | | | | | | | | | | | | |
| YBQ-800/4S(10000) | 800 | | 61.5 | | | | | | | | | | | | | | | | | | |
| YBQ-900/4S(10000) | 900 | | 68.4 | | | | | | | | | | | | | | | | | | |
| YBQ-1000/4S(10000) | 1000 | | 75.6 | 91.5 | | | | | | | | | | | | | | | | | |
| YBQ-1120/4S(10000) | 1120 | | 83.8 | | | | | | | | | | | | | | | | | | |
| YBQ-1200/4S(10000) | 1200 | | 89.5 | 92 | 0.87 | | | | | | | | | | | | | | | | |
| YBQ-1400/4S(10000) | 1400 | | 103.4 | | | | | | | | | | | | | | | | | | |
| YBQ-1600/4S10000) | 1600 | | 116.7 | | | | | | | | | | | | | | | | | | |
| YBQ-1800/4S(10000) | 1800 | | 130.6 | | | | | | | | | | | | | | | | | | |
| YBQ-1900/4S(10000) | 1900 | | 139.7 | | | | | | | | | | | | | | | | | | |
| YBQ-2000/4S(10000) | 2000 | | 144.5 | | | | | | | | | | | | | | | | | | |
| YBQ-2200/4S(10000) | 2200 | | 153.6 | 91 | 0.88 | | | | | | | | | | | | | | | | |
| YBQ-2500/4S(10000) | 2500 | | 184.3 | | | | | | | | | | | | | | | | | | |
| YBQ-2800/4S(10000) | 2800 | | 201.9 | | | | | | | | | | | | | | | | | | |
| YBQ-3150/4S(10000) | 3150 | | 224.6 | 92 | 0.89 | | | | | | | | | | | | | | | | |
| YBQ-3550/4S(10000) | 3550 | | 250.3 | | | | | | | | | | | | | | | | | | |
| YBQ-4000/4S(10000) | 4000 | | 282.1 | | | | | | | | | | | | | | | | | | |
| YBQ-4500/4S(10000) | 4500 | | 317.3 | | | | | | | | | | | | | | | | | | |

BQS SERIES MINING

EXPLOSION-PROOF SUBMERSIBLE

DRAINAGE PUMP



- No overpower at all head points
- Independent cascade mechanical seal and double-end faces mechanical seal
- Smooth operation, high reliability and low energy consumption
- IPx8/IP68 motor protection grade
- F/H insulation grade

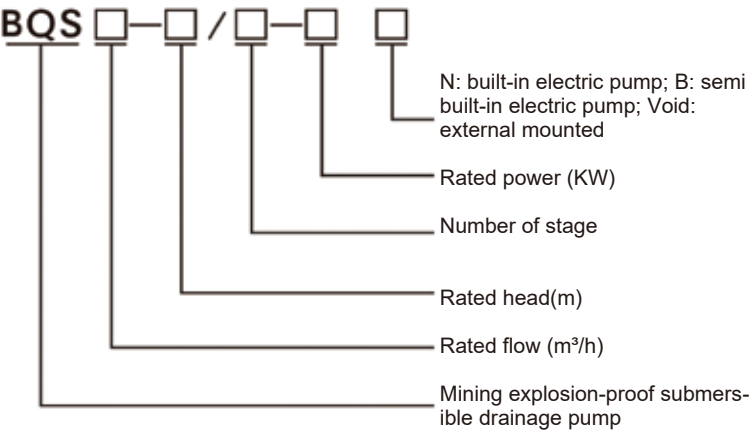
Main application

It is applicable to dangerous sites which contain methane (commonly known as gas) and coal-dust explosion, capable of handling sewage which contains a mixture of insoluble solid contents such as sediment, coal slime, cinders, fibrous material, etc. It is also applicable for transporting rain water and sewage containing solid particles at constructions, hospitals, residential areas, municipal projects, roads, factory sewage, etc.

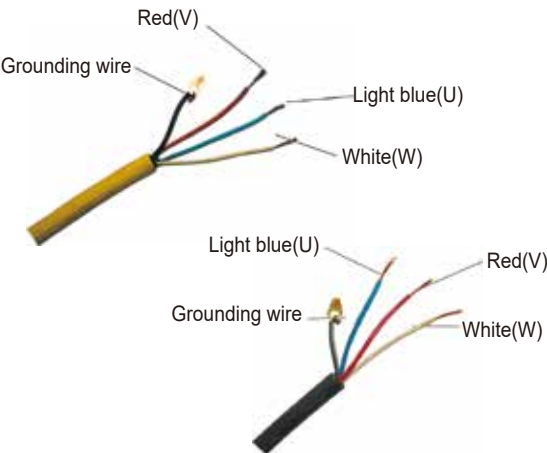
Working condition

- 1.Voltage:380V/660V, 660V/1140V, three phase, 50HZ,can be customized.
- 2.Medium density is generally no more than 40°C, PH5—9, medium weight ≤11KN/M³.
- 3.Based on the impeller center, submerged depth is no more than 20M.
- 4.Customized design is available for high corrosive fluid.
- 5.Diameter of solid contents in the fluid should be conform to MT/T671-2005 standard, notify us while ordering for customized design.
- 6. MT818.5-1999 coal mine with flame-retardant cable, can be customized.

Model and meaning

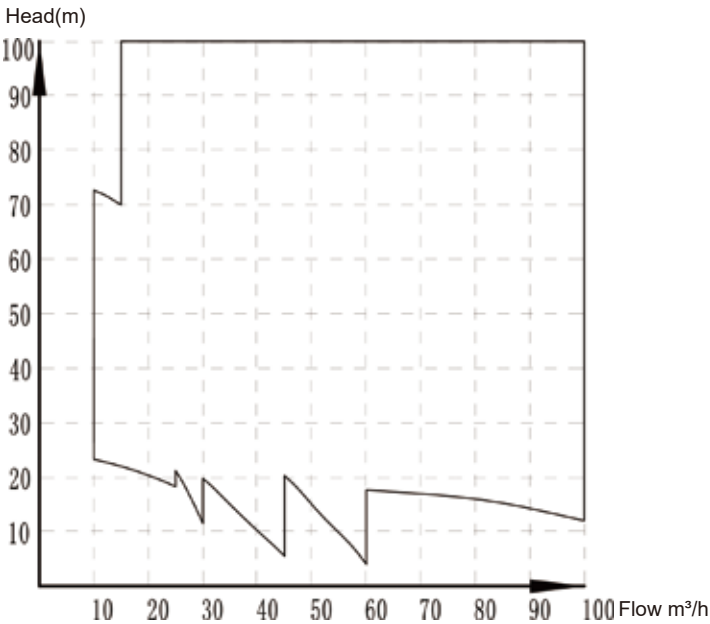


Cable description

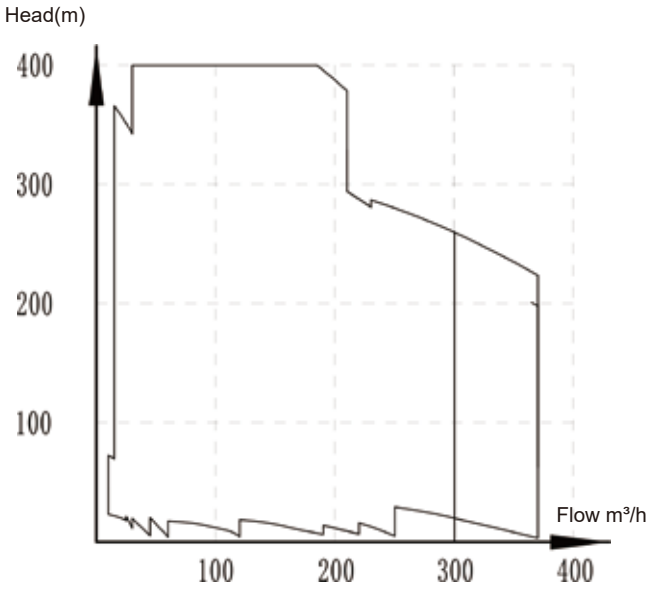


Light blue(U), red(V), white(W), three phase power line.
Grounding wire: black.

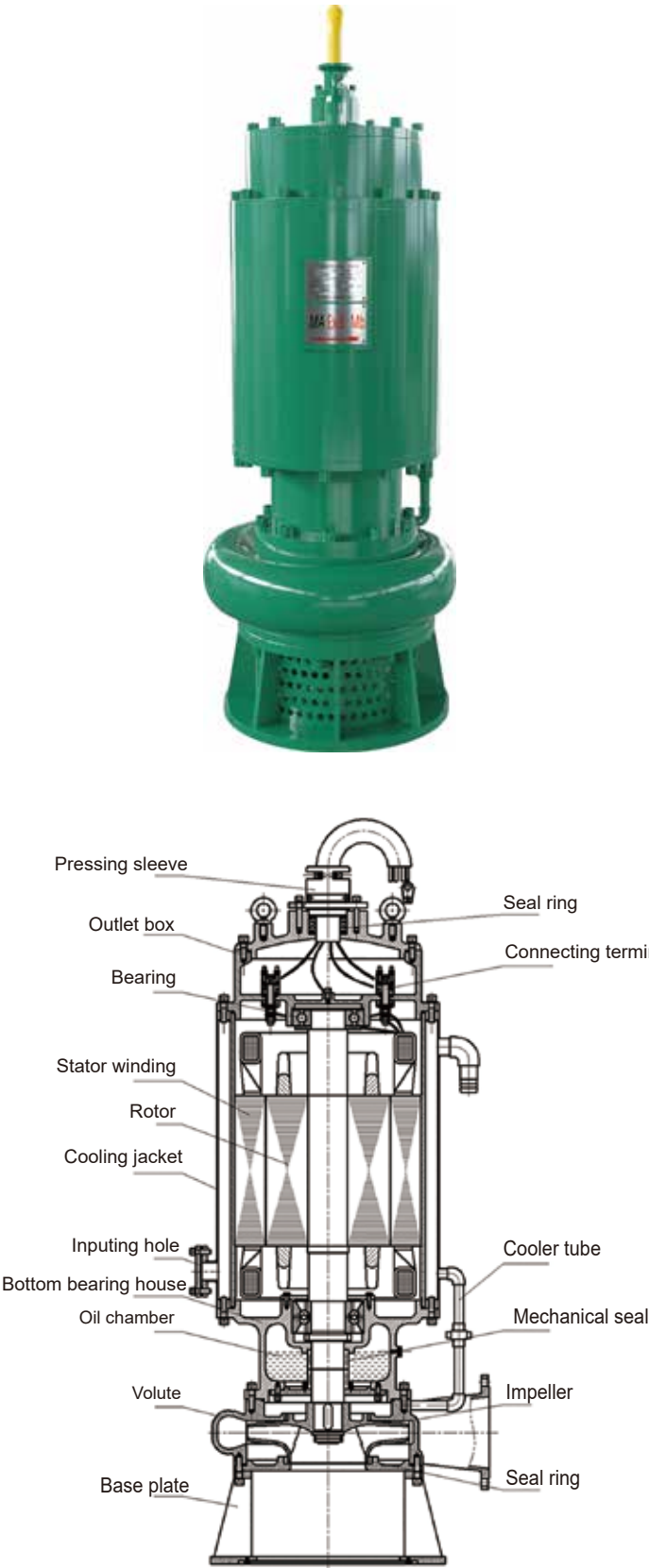
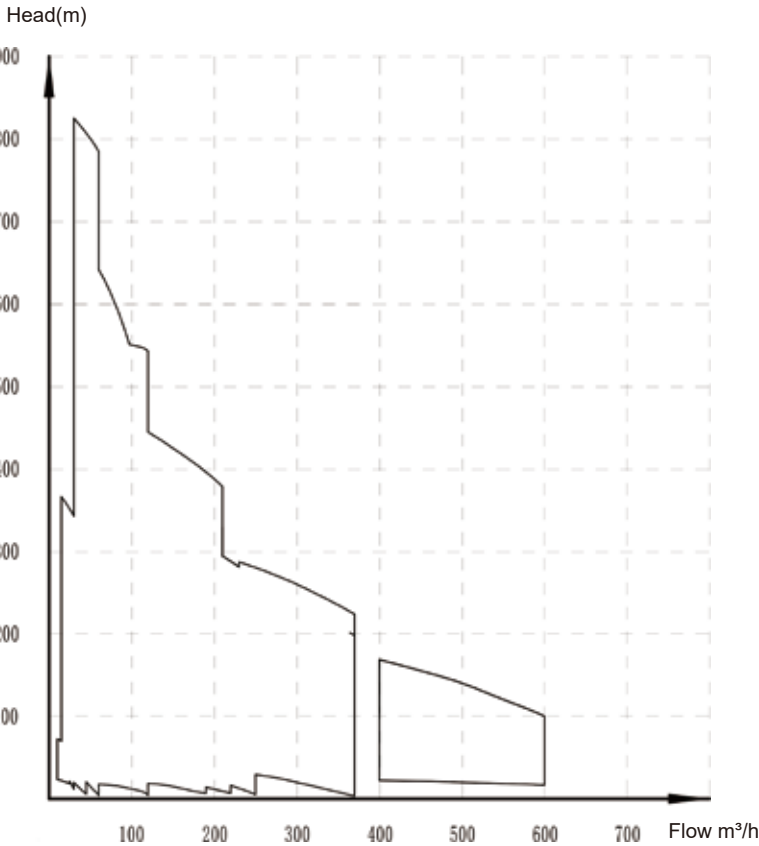
BQS series mining explosion-proof submersible drainage pump (Flow≤100m³/h,Head≤100m)



BQS series mining explosion-proof submersible drainage pump (Flow≤400m³/h,Head≤400m)

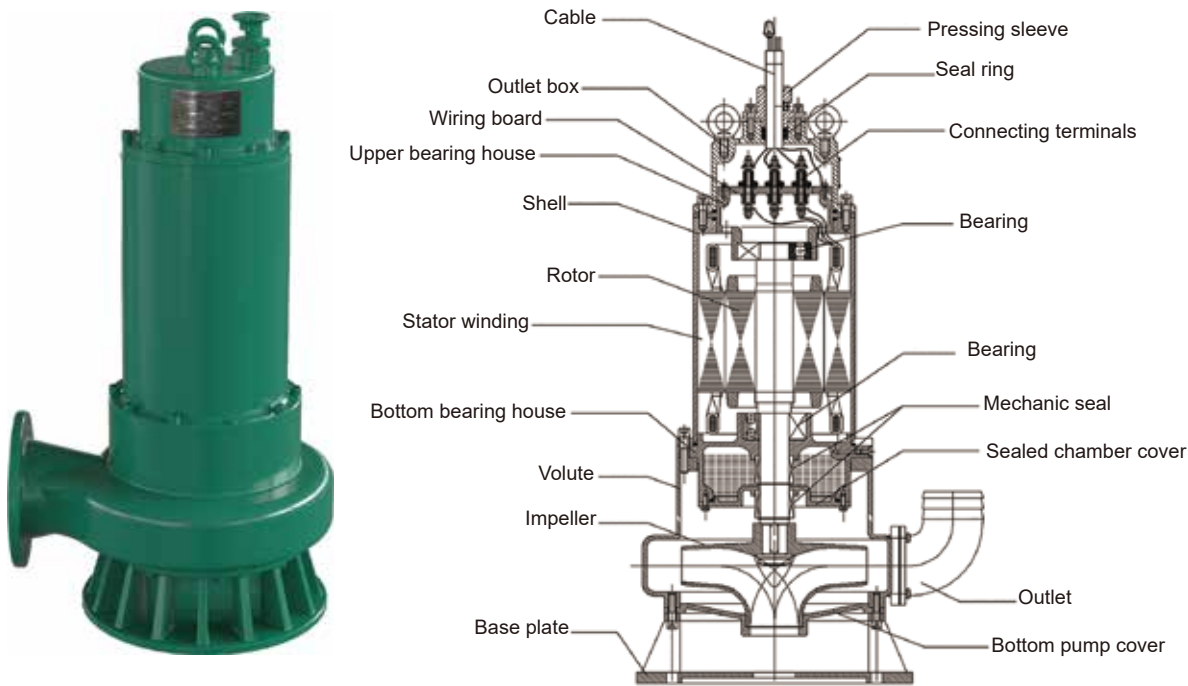


Note: BQS samples + statistical experimental reports are combined to form the maximum range, while not counting BQS pumps with flows above 500 m³/h



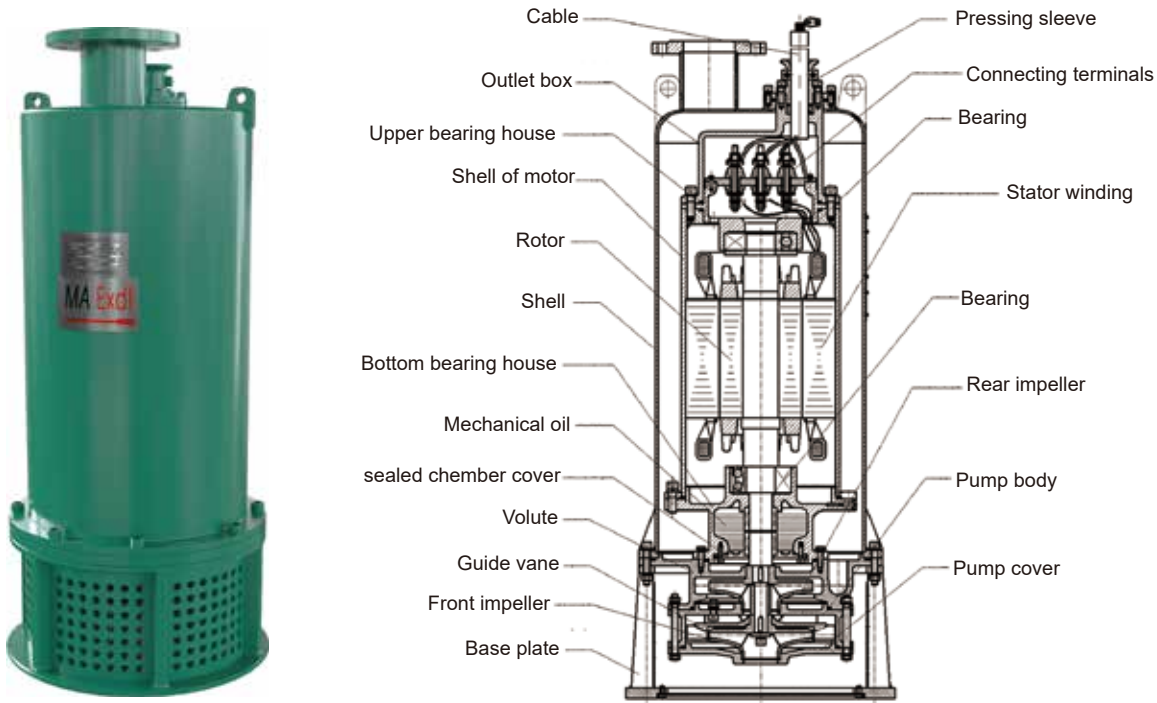
BQS series-external mounted type

External mounted electric pump has the water outlet located at the bottom of pump. Water is discharged directly from the pump body through the water outlet. Generally , the power of this type of single-stage, single suction small pump is below 22kw. Its features are simple structure, portability, strong discharge. It is suitable for sites where water contains coal slurry, gravel and other impurities.



BQS series-built-in type

The overall structure of the built-in electric pump is vertical and downward type with built-in motor structure. The motor housing has an interlayer. When water drains, the water flows from the interlayer and goes out from the top to cool the motor. Even without water, the interlayer outside the motor still has water cooling the motor to ensure that the motor will not be overheated and burnt. There is no need for supervision, greatly reducing the cost of labor. Most of our single-stage and multi-stage pumps utilise the built-in structure.



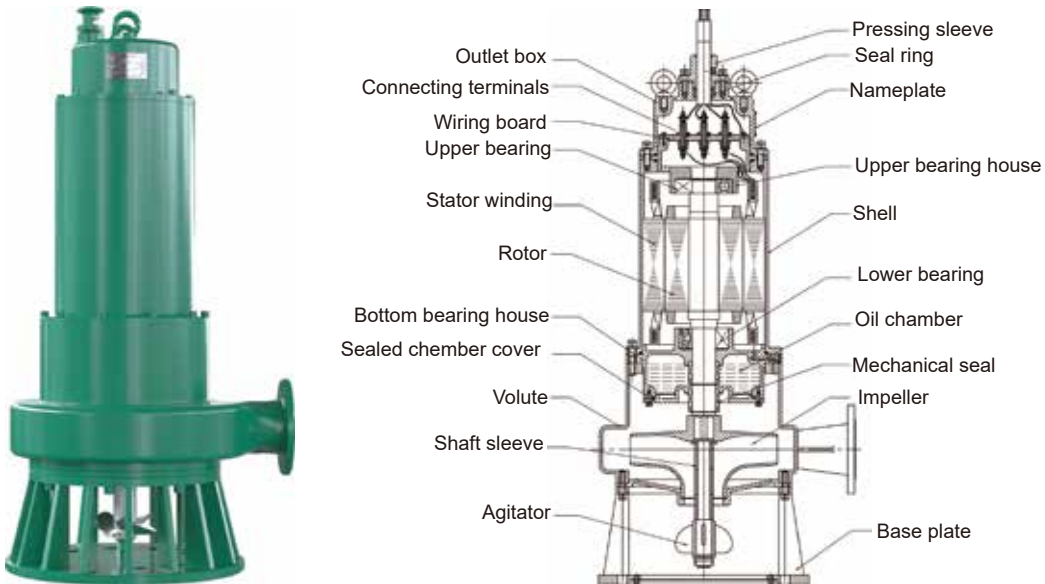
BQS series-stainless steel electric pump

BQS2.2kw-90kw mining explosion-proof sewage desilting submersible pump is specially designed by our company with stainless steel construction to pump corrosive fluids containing sand. The volute casing, impeller and other flow passage parts utilise wear-resistant, corrosion-resistant casted alloy materials with precision. The pump base and shell utilise 304 stainless steel material to greatly improve product service life, which meets the needs of mine drainage.

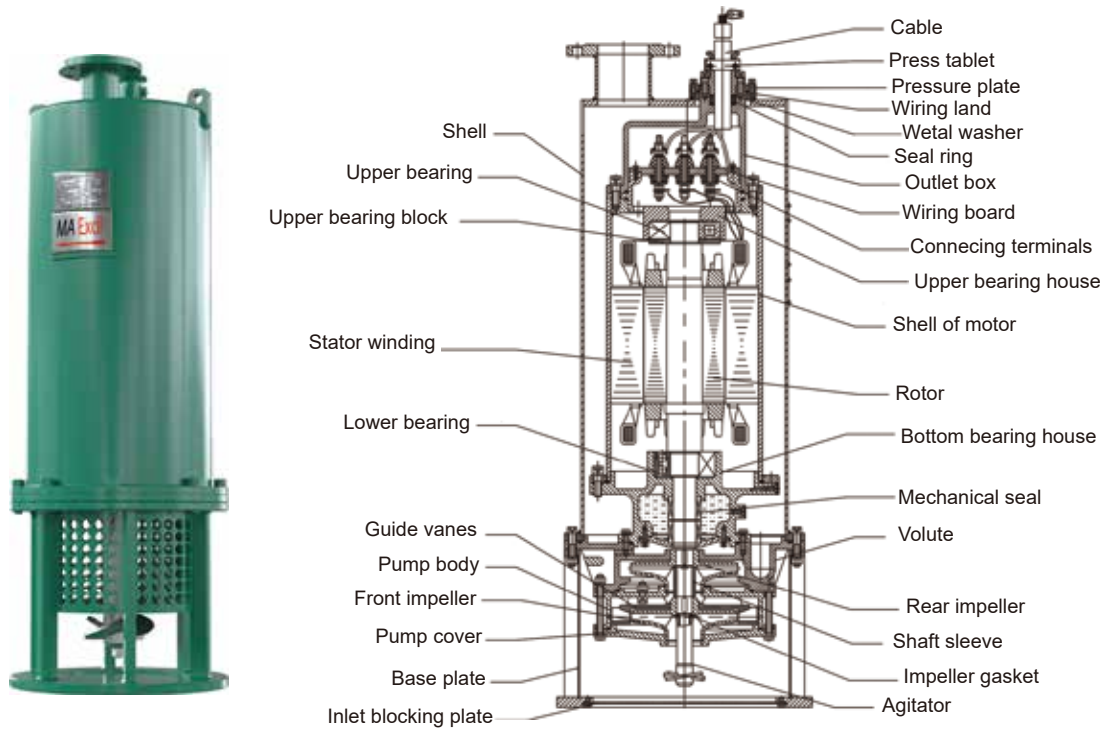


BQS series-agitator type

BQS2.2kw-315kw full head mining explosion-proof sewage desilting agitator pump is jointly designed and developed by our company and JiangSu University, according to MT/T671-2005 standard, which is suitable for coal mines which may have a lot of coal slime. Based on the original mining explosion-proof sewage desilting submersible pump, the product's innovative design equips a stirrer at the bottom of pump. Which effectively discharge the sewage such as coal slurry and slime. This series product utilises two patents from JiangSu University, the impeller and volute casing are designed into double flow channels, outlet width between two impeller blades is more than 30mm, which ensures strong overflow capacity. The impeller blade curve utilises patent technology to ensure that input power will not exceed the motor power (no overload) under any condition. One pump can servemuti-purpose to provide users with great convenience, and can save over 10% of electrical energy. In order to make the pump operate with or without water, we have designed the product with a strong cooling interlayer structure. So this submersible electric pump series can completely meet the needs of underground coal mines. Compared with the similar products in China, it has the features of advanced technology, superior performance, energy saving and longer life.

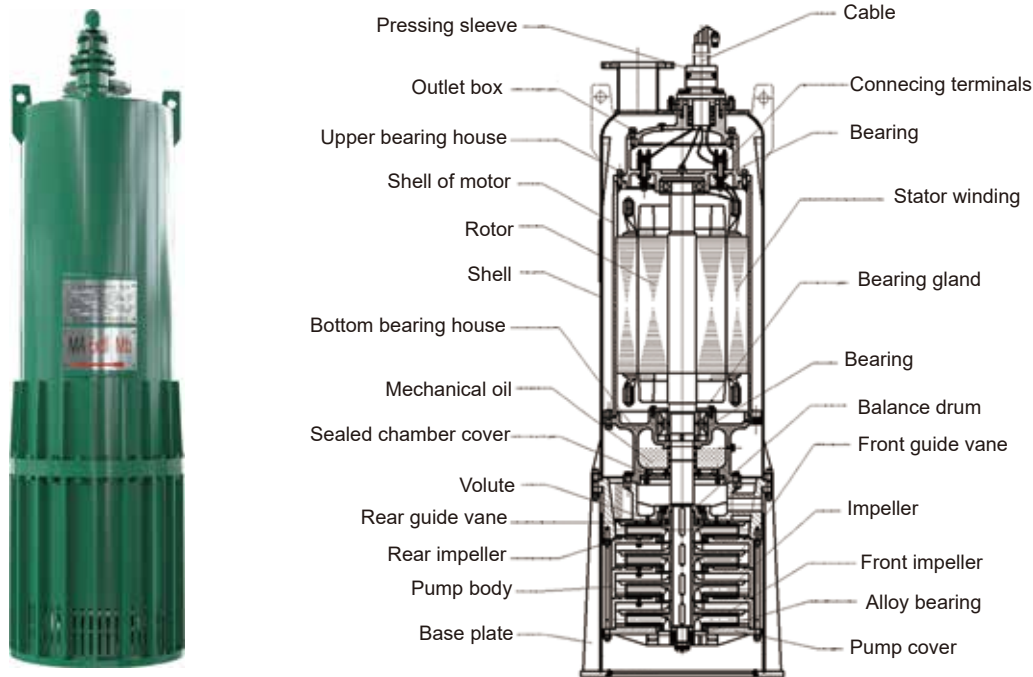


BQS series built-in agitator type



BQS110~315KW large power mining explosion-proof submersible drainage pump

- 1.Utilises built-in motor, downward structure, effectively cooling the motor and providing easy installation and maintenance.
- 2.Optimized motor design makes the motor highly efficient and reliable.
- 3.Utilises an excellent hydraulic model for high efficiency pump hydraulic performance.
- 4.Utilises the core technology for the impeller, guide vane and volute casing parts with no overload design throughout whole pump head range.
- 5.Utilises patent mechanical seal technology to give reliable performance and long service life.
- 6.Utilises high-chromium wear-resistant new materials in impeller, seal ring, guide vane to resist mud and sand abrasion.
7. Impeller utilises a wide flow channel design allowing solid particles to pass through and providing good performance without blocking. This series of products optimises and innovates the hydraulic model, mechanical structure, mechanical seal and other aspects. High sewage disposal capacity, large flow volume and high pump head are proven in many challenging drainage projects.



BQS

BQS series IoT pump
A new generation of digital, information intelligent products



The mobile terminal of Cloud SCADA supports remote monitoring and management of devices through APP, WeChat applet and WeChat official account
Main modules: screen monitoring, real-time data monitoring, fault alarm, and account management

What does Cloud SCADA do?

- 1.Adopt integrated modular design
- 2.Intelligent digitization
- 3.Cloud SCADA ecological intelligence
- 4.Remote device diagnostics
- 5.Video
- 6.Permission Management
- 7.Third party data connection



Main application

It is suitable for normal production drainage and disaster relief drainage in underground coal mine tunnels and mining working faces; it can also be used for drainage in Coal Handling and Preparation Plant, tunneling projects, water conservancy projects and other places. It is suitable for discharging sewage containing solid particles such as suspended coal dust, rock chips, coal particles, sand, gravel and silt.

Working condition

- Working condition
- (1)Rated voltage: 380V/660V or 660/1140V(Allowable Deviation $\pm 5\%$)
 - (2)Rated frequency: 50Hz
 - (3)Submergence depth: $\leq 5\text{m}$
 - (4)Medium temperature: $\leq 40^{\circ}\text{C}$
 - (5)Environmental temperature: $0\text{--}40^{\circ}\text{C}$
 - (6)Medium PH: 4-10
 - (7)Sediment solids content weight ratio: $\leq 20\%$
 - (8)Soilds passage: Not more than 50% of the minimum size of the flow section of the pump passage
 - (9)Medium density: $\leq 1100\text{Kg/m}$
 - (10)NPSHr: $\leq 4.8\text{m}$

Outstanding features

1.Amphibious and multi-use machine

Safety and antai-explosion, explosive-proof structure, submerged operation, good heat dissipation of motor, no overload throughout whole head design which ensures the safe operation. Motor cannot be burned out because of overload. The pump can be used both submerged in water or on land by connecting suction pipes. According to the use of location, flexible choice of use and one machine multi-purpose.

2.Use water to cool the motor. Start-up and operation can be carried out without water

The electric pump adopts built-in motor structure, there is a water interlayer outside the motor. When the electric pump delivers water, the water flows through the interlayer between the motor and the pump shell to force cool the shell of motor. So the motor cooling effect is good and the overload performance of the motor is improved. In the case of no water operation, Pump impeller idles with motor, the load is very small and the effective power output of the motor is small, so the heat is small, so it will not cause the motor to overheat and will not damage the motor. The motor bearings and mechanical seals adopt an effective cooling method, which will not be damaged under water-free operation. In the pump, the rear pump continues to pressurize for drainage, to achieve the effect of doubling the head and high head drainage.

3.A variety of installation methods

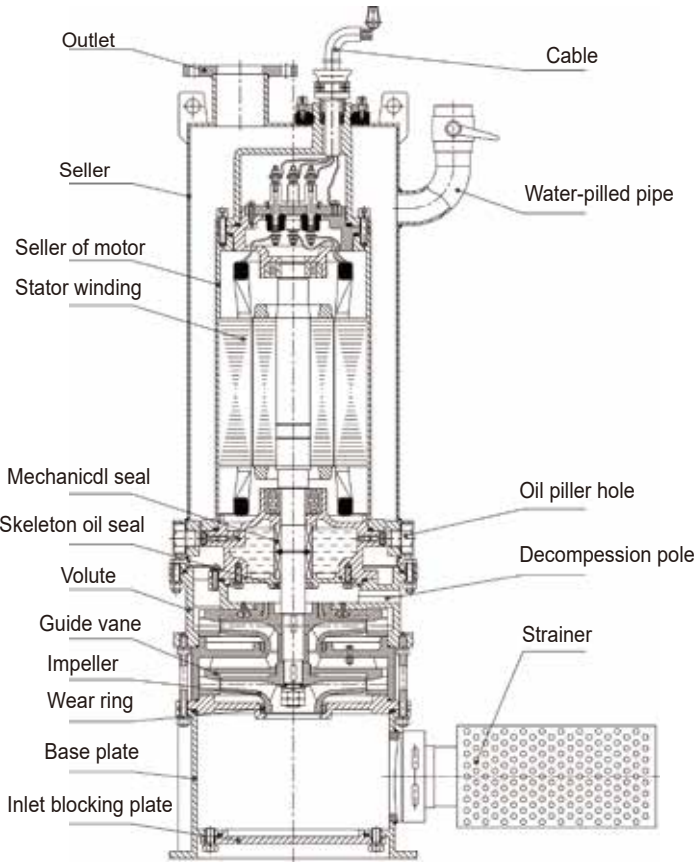
This electric pump can be installed in series to achieve high head drainage. It can adopt submersible installation, land installation, hanging installation, and a variety of tandem installation methods. Electric pump specially designed tandem interface, two or more electric pumps can be installed in tandem. The water conveyed by the front pump is pumped into the rear pump, and the rear pump continues to pressurize to drain the water, to achieve the effect of doubling the head and realizing high head drainage.

Main application

It is suitable for normal production drainage and disaster relief drainage in underground coal mine tunnels and mining working faces; it can also be used for drainage in Coal Handling and Preparation Plant, tunneling projects, water conservancy projects and other places. It is suitable for discharging sewage containing solid particles such as suspended coal dust, rock chips, coal particles, sand, gravel and silt.

Working condition

- (1)Rated voltage: 380V/660V or 660/1140V(Allowable Deviation ±5%)
- (2)Rated frequency: 50Hz
- (3)Submergence depth: ≤20m
- (4)Medium temperature: ≤40℃
- (5)Environmental temperature: 0-40℃
- (6)Medium PH: 4-10
- (7)Sediment solids content weight ratio: ≤20%
- (8)Soilds passage: Not more than 50% of the minimum size of the flow section of the pump passage
- (9)Medium density: ≤1100Kg/m³
- (10)NPSHr: ≤4.8m



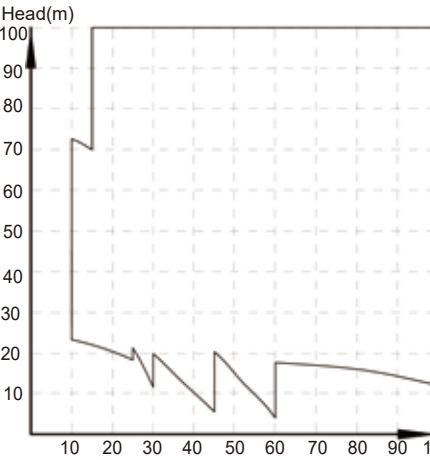
| Model | Rated flow (m³/h) | Rated head (m) | Rated power (kw) | Rated voltage (V) | Rated current (A) | Synchronous speed (r/min) | Relctric efficiency (%) | Maximum diameter of passed particles (mm) | Outlet diameter (mm) |
|--------------------|-------------------|----------------|------------------|---------------------|----------------------------|---------------------------|-------------------------|---|----------------------|
| BQS10-23-1.5 | 10 | 23 | 1.5 | 380/660 or 660/1140 | 3.65/2.11 or 2.11/1.22 | 3000 | 28.9 | 6 | 50 |
| BQS15-20-1.5 | 15 | 20 | | | | | 33.9 | | |
| BQS10-28-2.2 | 10 | 28 | | | | | 29.2 | | |
| BQS35-7-2.2 | 35 | 7 | 2.2 | 380/660 or 660/1140 | 5.12/2.95 or 2.95/1.70 | 3000 | 37.8 | 15 | 50 |
| BQS15-22-2.2 | 15 | 22 | | | | | 33.9 | | |
| BQS25-10-2.2 | 25 | 10 | | | | | 37.6 | | |
| BQS25-15-3/B | 25 | 15 | | | | | 38 | 15 | 40 |
| BQS15-25-3/B | 15 | 25 | 3 | 380/660 or 660/1140 | 6.67/3.84 or 3.84/2.22 | 3000 | 31 | | |
| BQS35-15-3 | 35 | 15 | | | | | 41 | 11 | 80 |
| BQS40-10-3 | 40 | 10 | | | | | 41.7 | | |
| BQS50-15-4 | 50 | 15 | | | | | 43.3 | | 80 |
| BQS15-30-4/B | 15 | 30 | | | | | 31.5 | | |
| BQS20-28-4/B | 20 | 28 | 4 | 380/660 or 660/1140 | 8.79/5.07 or 5.07/2.92 | 3000 | 34.7 | 10 | 40 |
| BQS22-22-4/B | 22 | 22 | | | | | 37.6 | | |
| BQS35-18-4/B | 35 | 18 | | | | | 41.5 | | |
| BQS30-30-5.5 | 30 | 30 | | | | | 37.9 | 18 | 50 |
| BQS70-18-5.5 | 70 | 18 | | | | | 45.9 | 30 | 100 |
| BQS20-40-5.5/B | 20 | 40 | 5.5 | 380/660 or 660/1140 | 11.65/6.7 or 6.7/3.87 | 3000 | 33.5 | 5 | |
| BQS40-20-5.5/B | 40 | 20 | | | | | 43 | 10 | 40 |
| BQS25-30-5.5/B | 25 | 30 | | | | | 35.5 | 10 | |
| BQS15-55/2-5.5/B | 15 | 55 | | | | | 31.5 | 10 | |
| BQS30-36-7.5 | 30 | 36 | | | | | 38.2 | 18 | 50 |
| BQS80-16-7.5 | 80 | 16 | | | | | 46.9 | 30 | |
| BQS75-25-7.5 | 75 | 25 | | | | | 46.5 | 30 | 100 |
| BQS140-7-7.5 | 140 | 7 | 7.5 | 380/660 or 660/1140 | 15.7/9.1 or 9.1//5.25 | 3000 | 45.1 | 30 | |
| BQS100-12-7.5 | 100 | 12 | | | | | 44.3 | 30 | |
| BQS20-50-7.5/B | 20 | 50 | | | | | 33.5 | 5 | 40 |
| BQS15-70/2-7.5/B | 15 | 70 | | | | | 32 | 5 | |
| BQS10-100/2-7.5/B | 10 | 100 | | | | | 29.5 | 5 | |
| BQS50-30-7.5/B | 50 | 30 | | | | | 44 | 10 | |
| BQS40-38-7.5/B | 40 | 38 | | | | | 38.4 | 10 | 40 |
| BQS20-68/2-11/N | 20 | 68 | | | | | 35.4 | 10 | |
| BQS30-58/2-11/N | 30 | 58 | | | | | 39.4 | 7 | 65 |
| BQS40-40-11/N | 40 | 40 | 11 | 380/660 or 660/1140 | 23.82/3.79 or 3.79/7.95 | 3000 | 37.7 | 7 | |
| BQS150-15-11/N | 150 | 15 | | | | | 46.1 | | |
| BQS100-20-11/N | 100 | 20 | | | | | 48.2 | 30 | 100 |
| BQS80-20-11/N | 80 | 20 | | | | | 43.5 | | |
| BQS50-38-11/N | 50 | 38 | | | | | 42.1 | 10 | 65 |
| BQS80-20-11 | 80 | 20 | | | | | 22.07/12.74 /7.36 | 30 | 100 |
| BQS100-22-15 | 100 | 22 | | | | | 29.90/17.26/9.97 | 30 | 100 |
| BQS20-80/2-15/N | 20 | 80 | | | | | 35.5 | 10 | 65 |
| BQS40-50-15/N | 40 | 50 | 15 | 380/660 or 660/1140 | 31.74/18.32 or 18.32/10.58 | 3000 | 38.2 | 5 | |
| BQS60-35-15/N | 60 | 35 | | | | | 43.5 | | 100 |
| BQS80-25-15/N | 80 | 25 | | | | | 44.0 | 30 | |
| BQS32-67/2-15/N | 32 | 67 | | | | | 39.2 | | 65 |
| BQS150-20-15/N | 150 | 20 | | | | | 49.1 | | 100 |
| BQS20-100/2-18.5/N | 20 | 100 | | | | | 33.9 | 6 | 65 |
| BQS30-80/2-18.5/N | 30 | 80 | | | | | 38.6 | 6 | |
| BQS70-35-18.5/N | 70 | 35 | 18.5 | 380/660 or 660/1140 | 37.16/21.45 or 21.45/12.38 | 3000 | 47.0 | 15 | |
| BQS80-30-18.5/N | 80 | 30 | | | | | 47.3 | | 100 |
| BQS60-40-18.5/N | 60 | 40 | | | | | 44.2 | | |
| BQS100-30-18.5 | 100 | 30 | | | | | 48.6 | | |
| BQS200-15-18.5 | 200 | 15 | | | | | 52.54 | 30 | |
| BQS160-20-18.5 | 160 | 20 | | | | | 20.78/12.00 | | |
| | | | | | | | 51.46 | | |

| Model | Rated flow (m³/h) | Rated head (m) | Rated power (kw) | Rated voltage (V) | Rated current (A) | Synchronous speed (r/min) | Electric efficiency (%) | Maximum diameter of passed particles (mm) | Outlet diameter (mm) |
|------------------|-------------------|----------------|------------------|---------------------|-----------------------------|---------------------------|-------------------------|---|----------------------|
| BQS30-105/2-22/N | 30 | 105 | 22 | 380/660 or 660/1140 | 44.94/25.95 or 25.95/14.95 | 3000 | 38.3 | 10 | 65 |
| BQS40-80/2-22/N | 40 | 80 | | | | | 39.9 | | |
| BQS80-40-22/N | 80 | 40 | | | | | 48.1 | | |
| BQS60-60-22/N | 60 | 60 | | | 42.3/24.42 or 24.42/14.1 | 1500 | 42.5 | 20 | 100 |
| BQS100-35-22 | 100 | 35 | | | | | 49.2 | 31 | |
| BQS165-30-22 | 165 | 30 | | | | | 50.2 | 30 | |
| BQS200-20-22 | 200 | 20 | | | | | 53.8 | | |
| BQS50-100/2-30/N | 50 | 100 | 30 | 380/660 or 660/1140 | 60.92/35.18 or 35.18/20.31 | 3000 | 42.4 | 10 | 100 |
| BQS60-80-30/N | 60 | 80 | | | | | 41 | | |
| BQS80-60-30/N | 80 | 60 | | | | | 45.1 | | |
| BQS120-50-30/N | 120 | 50 | | | | | 50.3 | 11 | 150 |
| BQS200-22-30/N | 200 | 22 | | | | | 50.7 | 15 | |
| BQS30-130/2-30/N | 30 | 130 | | | | | 38.5 | 10 | 100 |
| BQS25-150/2-30/N | 25 | 150 | | | | | 35.7 | | |
| BQS70-100/2-37/N | 70 | 100 | 37 | 380/660 or 660/1140 | 69.35/40.04 or 40.04/23.12 | 3000 | 45.91 | 10 | 100 |
| BQS30-150/2-37/N | 30 | 150 | | | | | 38.65 | | |
| BQS50-120/2-37/N | 50 | 120 | | | | | 37 | | |
| BQS40-130/2-37/N | 40 | 130 | | | | | 38.5 | | |
| BQS80-80-37/N | 80 | 80 | | | | | 43 | | |
| BQS100-80-37/N | 100 | 80 | | | | | 45.7 | | |
| BQS350-25-37 | 350 | 25 | | | | | 45 | 30 | 150 |
| BQS150-50-37/N | 150 | 50 | | | | | 44.3 | 10 | |
| BQS200-30-37/N | 200 | 30 | | | | | 53.3 | 12 | |
| BQS300-20-37/N | 300 | 20 | | | | | 56 | 30 | |
| BQS600-10-37 | 600 | 10 | | | | | 47 | | 200 |
| BQS30-170/2-45/N | 30 | 170 | 45 | 380/660 or 660/1140 | 86.88/50.16 or 50.16/29.00 | 3000 | 37.2 | 10 | 100 |
| BQS50-150/2-45/N | 50 | 150 | | | | | 40.5 | | |
| BQS110-90-45/N | 110 | 90 | | | | | 54.5 | 18 | 150 |
| BQS120-70-45/N | 120 | 70 | | | | | 54.3 | | |
| BQS85-100-45/N | 85 | 100 | | | | | 47.4 | 10 | |
| BQS130-60-45/N | 130 | 60 | | | | | 51 | | |
| BQS170-50-45/N | 170 | 50 | | | | | 53.89 | 18 | |
| BQS200-45-45/N | 200 | 45 | | | | | 53.4 | | |
| BQS300-30-45/N | 300 | 30 | | | | | 53.9 | | |
| BQS600-15-45 | 600 | 15 | | | | | 55.4 | 30 | 200 |
| BQS900-10-45 | 900 | 10 | | | | | 56.0 | | 300 |
| BQS90-120/2-55/N | 90 | 120 | 55 | 380/660 or 660/1140 | 107.3/61.95 or 61.95/35.77 | 3000 | 43.8 | 11 | 100 |
| BQS120-80-55/N | 120 | 80 | | | | | 46.7 | | 150 |
| BQS150-70-55/N | 150 | 70 | | | | | 50.4 | 10 | |
| BQS200-60-55/N | 200 | 60 | | | | | 53.8 | 11 | |
| BQS220-50-55/N | 220 | 50 | | | | | 54.1 | 11 | |
| BQS240-30-55/N | 240 | 30 | | | | | 53.6 | 18 | 65 |
| BQS25-320/6-55/N | 25 | 320 | | | | | 38.06 | 10 | |
| BQS50-175/2-55/N | 50 | 175 | | | | | 41.43 | | |
| BQS70-136/2-55/N | 70 | 136 | | | | | 44.55 | | 100 |
| BQS400-25-55 | 400 | 25 | | | 101.67/83.53 or 83.53/48.23 | 1500 | 57.5 | 30 | 200 |
| BQS600-20-55 | 600 | 20 | | | | | 56.0 | | 250 |
| BQS800-15-55 | 800 | 15 | | | | | 57.0 | | 100 |
| BQS100-100-75/N | 100 | 100 | 75 | 380/660 or 660/1140 | 144.67/83.53/48.23 | 3000 | 44.8 | 10 | 100 |
| BQS150-90-75/N | 150 | 90 | | | 144.67/83.53 or 83.53/48.23 | 1500 | 49.33 | 11 | 150 |
| BQS200-70-75/N | 200 | 70 | | | | | 54.1 | | |
| BQS300-50-75/N | 300 | 50 | | | | | 57.1 | 19 | 200 |
| BQS50-210/2-75/N | 50 | 210 | | | 144.67/83.53 or 83.53/48.23 | 1500 | 41.67 | 11 | 100 |
| BQS70-150/2-75/N | 70 | 150 | | | | | 43.3 | 10 | |
| BQS400-30-75 | 400 | 30 | | | | | 57.9 | 19 | 200 |
| BQS500-20-75 | 500 | 20 | | | | | 58.9 | | |
| BQS300-40-75 | 300 | 40 | | | | | 55.5 | | |
| BQS800-20-75 | 800 | 20 | | | 137.5/79.39 or 79.39/45.84 | 1500 | 56.0 | 30 | 250 |
| BQS1100-15-75 | 1100 | 15 | | | | | 60.0 | | |

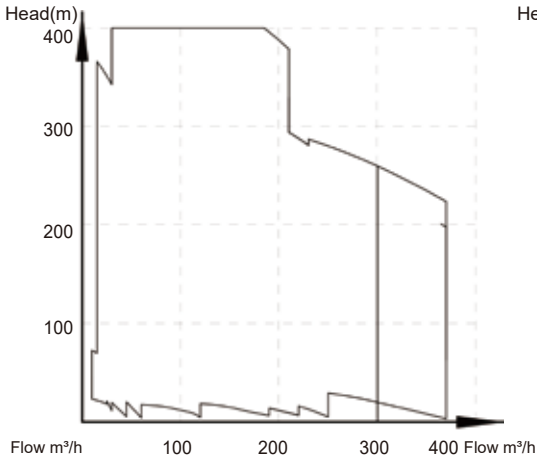
| Model | Rated flow (m³/h) | Rated head (m) | Rated power (kw) | Rated voltage (V) | Rated current (A) | Synchronous speed (r/min) | Electric efficiency (%) | Maximum diameter of passed particles (mm) | Outlet diameter (mm) | | |
|--------------------|-------------------|----------------|------------------------------|---------------------|--------------------------------|---------------------------|--------------------------------|---|----------------------|------|-------|
| BQS50-240/2-90/N | 50 | 240 | 90 | 380/660 or 660/1140 | 174.5/100.8 or 100.8/58.20 | 3000 | 41.83 | 10 | 100 | | |
| BQS80-190/2-90/N | 80 | 190 | | | | | 44.8 | | | | |
| BQS100-150/2-90/N | 100 | 150 | | | | | 45.5 | | | | |
| BQS190-90-90/N | 190 | 90 | | | | | 52.06 | 11 | 150 | | |
| BQS220-70-90/N | 220 | 70 | | | | | 55.1 | | | | |
| BQS300-50-90/N | 300 | 50 | | | 56.4 | 13 | | | | | |
| BQS500-35-90 | 500 | 35 | | | 57.5 | 19 | 200 | | | | |
| BQS280-65-90 | 280 | 65 | | | 51 | 30 | 300 | | | | |
| BQS900-20-90 | 900 | 20 | | | 57.6 | | | | | | |
| BQS60-260/3-110/N | 60 | 260 | 110 | 380/660 or 660/1140 | 212.2/122.52 or 122.52/70.74 | 3000 | 42.79 | 10 | 100 | | |
| BQS90-200/3-110/N | 90 | 200 | | | | | 45.33 | | | | |
| BQS100-180/2-110/N | 100 | 180 | | | | | 46.2 | | | | |
| BQS150-120/2-110/N | 150 | 120 | | | | | 52.3 | 11 | 150 | | |
| BQS200-110-110/N | 200 | 110 | | | | | 50.93 | | | | |
| BQS300-80-110/N | 300 | 80 | | | 57.4 | 16 | 200 | | | | |
| BQS400-60-110 | 400 | 60 | | | 61.15 | 19 | | | | | |
| BQS600-40-110 | 600 | 40 | | | 61.0 | 30 | 300 | | | | |
| BQS1500-15-110 | 1500 | 15 | | | | | | | | | |
| BQS60-300/4-132/N | 60 | 300 | 132 | 380/660 or 660/1140 | 253.23/146.21 or 146.21/84.41 | 3000 | 43.74 | 10 | 100 | | |
| BQS110-200/2-132/N | 110 | 200 | | | | | 46.55 | | | | |
| BQS150-150/2-132/N | 150 | 150 | | | | | 51.22 | | | 150 | |
| BQS240-120/2-132/N | 240 | 120 | | | | | 56.41 | | | | |
| BQS300-90-132/N | 300 | 90 | | | | | 57.73 | 16 | 200 | | |
| BQS700-40-132 | 700 | 40 | | | 61.9 | | | | | | |
| BQS800-35-132 | 800 | 35 | | | 62.6 | 250 | | | | | |
| BQS60-380/4-160/N | 60 | 380 | | | 160 | 380/660 or 660/1140 | 305.25/176.24 or 176.24/101.76 | 3000 | 43.45 | 10 | 100 |
| BQS100-245/3-160/N | 100 | 245 | | | | | | | 47.26 | | |
| BQS150-210/3-160/N | 150 | 210 | 46.2 | 150 | | | | | | | |
| BQS350-90-160/N | 350 | 90 | 56.8 | | | | | | | | |
| BQS190-180/3-160/N | 190 | 180 | 55.76 | 19 | | | | | 300 | | |
| BQS300-100-160/N | 300 | 100 | 57.35 | | | | | | | | |
| BQS1200-25-160 | 1200 | 25 | 60.5 | | | | | | | | |
| BQS600-50-160 | 600 | 50 | 61.1 | | | | 16 | 200 | | | |
| BQS500-60-160 | 500 | 60 | 287.8/166.18 or 166.18/95.94 | 1500 | | | 58.5 | 16 | 200 | | |
| BQS1000-30-160 | 1000 | 30 | | | 63.6 | 19 | 300 | | | | |
| BQS100-280/4-185/N | 100 | 280 | | | 43.8 | 10 | 100 | | | | |
| BQS160-200/3-185/N | 160 | 200 | 185 | 380/660 or 660/1140 | 332.76/192.12 or 192.12/110.92 | 1500 | 48.06 | 11 | 150 | | |
| BQS240-175/3-185/N | 240 | 175 | | | | | 51.24 | | | | |
| BQS600-60-185 | 600 | 60 | | | | | 61.1 | | | 16 | 200 |
| BQS800-50-185 | 800 | 50 | | | | | 62.6 | 19 | 250 | | |
| BQS900-40-185 | 900 | 40 | | | | | 63.1 | | | 300 | |
| BQS80-350/4-185/N | 80 | 350 | | | 352.95/203.78/117.66 | 45.31 | 10 | 100 | | | |
| BQS80-400/4-200/N | 80 | 400 | | | 352.95/203.78 or 203.78/117.66 | 45.05 | | | | | |
| BQS100-320/4-200/N | 100 | 320 | | | 43.8 | | | | | | |
| BQS200-200/4-200/N | 200 | 200 | | | 50.62 | 11 | | | 150 | | |
| BQS320-120/2-200/N | 320 | 120 | 53.37 | | | | | | | | |
| BQS150-250/4-200/N | 150 | 250 | 47.97 | | | | | | | | |
| BQS1100-35-200 | 1100 | 35 | 200 | 380/660 or 660/1140 | 359.4/207.5 or 207.5/119.80 | 1500 | 64 | 19 | 300 | | |
| BQS1200-30-200 | 1200 | 30 | | | | | 62.3 | | | | |
| BQS1500-25-200 | 1500 | 25 | | | | | 61.2 | | | | |
| BQS80-450/4-220/N | 80 | 450 | | | | | 220 | 380/660 or 660/1140 | 419.72/242.33/139.91 | 3000 | 44.69 |
| BQS150-270/4-220/N | 150 | 270 | 48.31 | 11 | 150 | | | | | | |
| BQS220-220/4-220/N | 220 | 220 | 51.26 | | | | | | | | |
| BQS260-180/3-220/N | 260 | 180 | 52.33 | | | 10 | | | | | |
| BQS200-240/4-220/N | 200 | 240 | 50.28 | | | | | | | | |
| BQS320-150/3-220/N | 320 | 150 | 55.37 | | | | | | | | |
| BQS150-300/5-250/N | 150 | 300 | 250 | 380/660 or 660/1140 | 466.64/268.67 or 268.67/155.54 | 1500 | 48.49 | 19 | 150 | | |
| BQS230-250/4-250/N | 230 | 250 | | | | | 51.44 | | | | |
| BQS300-185/3-250/N | 300 | 185 | | | | | 53.31 | | | 19 | 200 |
| BQS400-150/3-250/N | 400 | 150 | | | | | 56.97 | | | | |

| Model | Rated flow (m³/h) | Rated head (m) | Rated power (kw) | Rated voltage (V) | Rated current (A) | Synchronous speed (r/min) | Electric efficiency (%) | Maximum diameter of passed particles (mm) | Outlet diameter (mm) |
|--------------------|----------------------|-------------------|---------------------|---------------------------|--------------------------------------|------------------------------|----------------------------|--|-------------------------|
| BQS500-100-250/N | 500 | 100 | 250 | 380/660 or 660/1140 | 466.64/268.67 or 268.67/155.54 | 1500 | 60 | 25 | 200 |
| BQS630-80-250/N | 630 | 80 | | | | | 61.5 | | |
| BQS800-70-250/N | 800 | 70 | | | | | 62.5 | | 250 |
| BQS1000-50-250/N | 1000 | 50 | | | | | 65 | 30 | 300 |
| BQS1500-40-250/N | 1500 | 40 | | | | | 67 | | |
| BQS50-600/6-250/N | 50 | 600 | | | 476.95/274.61 or 274.61/158.98 | 3000 | 42 | 10 | 100 |
| BQS63-540/6-250/N | 63 | 540 | | | | | 43.5 | | |
| BQS80-480/4-250/N | 80 | 480 | | | | | 44.8 | | |
| BQS100-400/4-250/N | 100 | 400 | | | | | 46.5 | | |
| BQS50-700/6-280/N | 50 | 700 | | | | | 42.39 | | |
| BQS63-630/6-280/N | 63 | 630 | 280 | 380/660 or 660/1140 | 534.18/307.56 or 307.56/178.06 | 3000 | 43.54 | 10 | 100 |
| BQS80-500/4-280/N | 80 | 500 | | | | | 44.69 | | |
| BQS100-450/4-280/N | 100 | 450 | | | | | 46.2 | | |
| BQS150-350/5-280/N | 150 | 350 | | | 522.63/300.91 or 300.91/174.21 | 1500 | 48.13 | 10 | 150 |
| BQS200-300/5-280/N | 200 | 300 | | | | | 50.37 | | |
| BQS250-250/5-280/N | 250 | 250 | | | | | 52.15 | | |
| BQS320-180/4-280/N | 320 | 180 | | | | | 55.46 | | |
| BQS400-160/3-280/N | 400 | 160 | | | | | 56.79 | 19 | 200 |
| BQS500-120/3-280/N | 500 | 120 | | | | | 60.9 | | |
| BQS630-90-280/N | 630 | 90 | | | | | 61.5 | 25 | 250 |
| BQS800-80-280/N | 800 | 80 | | | | | 62.5 | | |
| BQS1000-58-280/N | 1000 | 58 | | | | | 65 | 30 | 300 |
| BQS1500-45-280/N | 1500 | 45 | | | | | 67 | | |
| BQS80-600/6-315/N | 80 | 600 | 315 | 380/660 or 660/1140 | 600.96/346.01 or 346.01/200.32 | 3000 | 46 | 10 | 100 |
| BQS50-800/6-315/N | 50 | 800 | | | | | 42.4 | | |
| BQS100-550/6-315/N | 100 | 550 | | | | | 46.7 | | |
| BQS150-425/6-315/N | 150 | 425 | | | 587.96/338.52 or 338.52/195.98 | 1500 | 48.3 | 10 | 150 |
| BQS180-350/6-315/N | 180 | 350 | | | | | 50.4 | | |
| BQS300-260/4-315/N | 300 | 260 | | | | | 52.5 | | |
| BQS350-200/4-315/N | 350 | 200 | | | | | 56.1 | | |
| BQS400-180/3-315/N | 400 | 180 | | | | | 55.8 | 19 | 200 |
| BQS500-135/3-315/N | 500 | 135 | | | | | 60.9 | | |
| BQS700-100-315/N | 700 | 100 | | | | | 57.8 | 25 | 250 |
| BQS800-90-315/N | 800 | 90 | | | | | 64 | | |
| BQS1000-70-315/N | 1000 | 70 | | | | | 64.2 | 30 | 300 |
| BQS1500-50-315/N | 1500 | 50 | | | | | 66.3 | | |
| BQS2000-35-315/N | 2000 | 35 | | | | | 68.5 | 45 | |

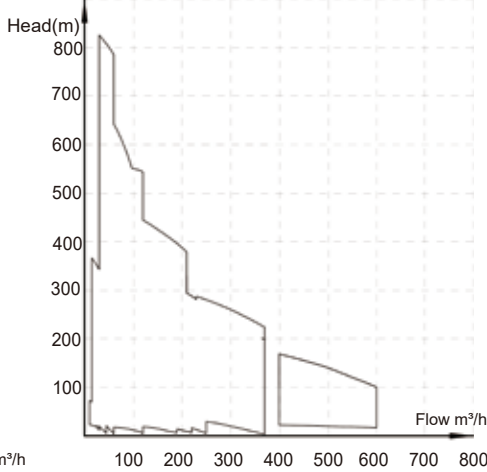
BQS series mining explosion-proof submersible drainage pump (Flow≤100m³/h,Head≤100m)



BQS series mining explosion-proof submersible drainage pump (Flow≤400m³/h,Head≤400m)



Note: BQS samples + statistical experimental reports are combined to form the maximum range, while not counting BQS pumps with flows above 500 m³/h



WQ(B) SERIES MINING EXPLOSION-PROOF SUBMERSIBLE DRAINAGE PUMP



- No overpower at all head points
- Independent cascade mechanical seal and double-end faces mechanical seal
- Smooth operation, high reliability and low energy consumption
- IPx8/IP68 motor protection grade
- F/H insulation grade

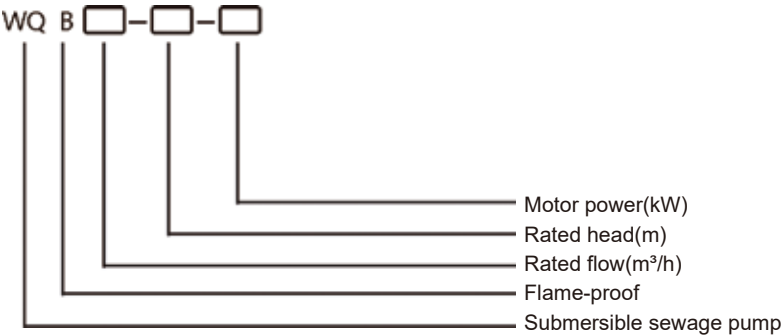
Main application

The product is used for sewage discharge in the IIB / IIC factory where the temperature group is T1-T4 of combustible gas and explosive mixture of steam and air. It is suitable for coal chemical industry, petrochemical industry, municipal engineering, urban engineering, hospital, hotels, residential areas and other places.

Working condition

- 1.Meeting the requirements of explosion-proof in accordance with the product flame -proof mark
- 2.Supply power: 380v/660v,660v/1140v, 3 phase, 50Hz,can be customized.
- 3.Medium temperature: 0-40°C (there will be other hot water pump model above this temperature range)
- 4.Medium PH value: 5-9
- 5.Medium density: ≤1100kg/m³
- 6.Maximum depth: 20m

Model and meaning



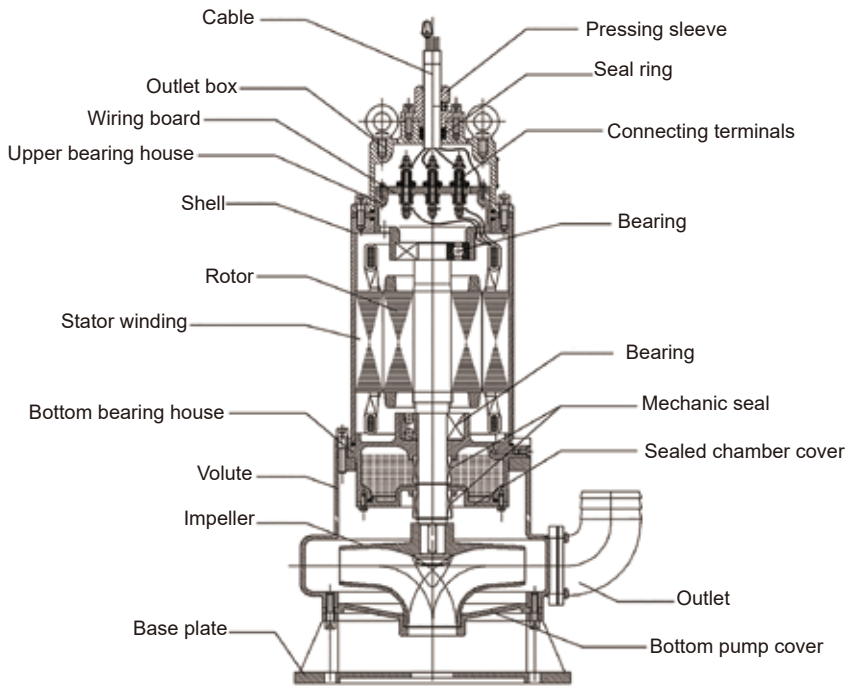
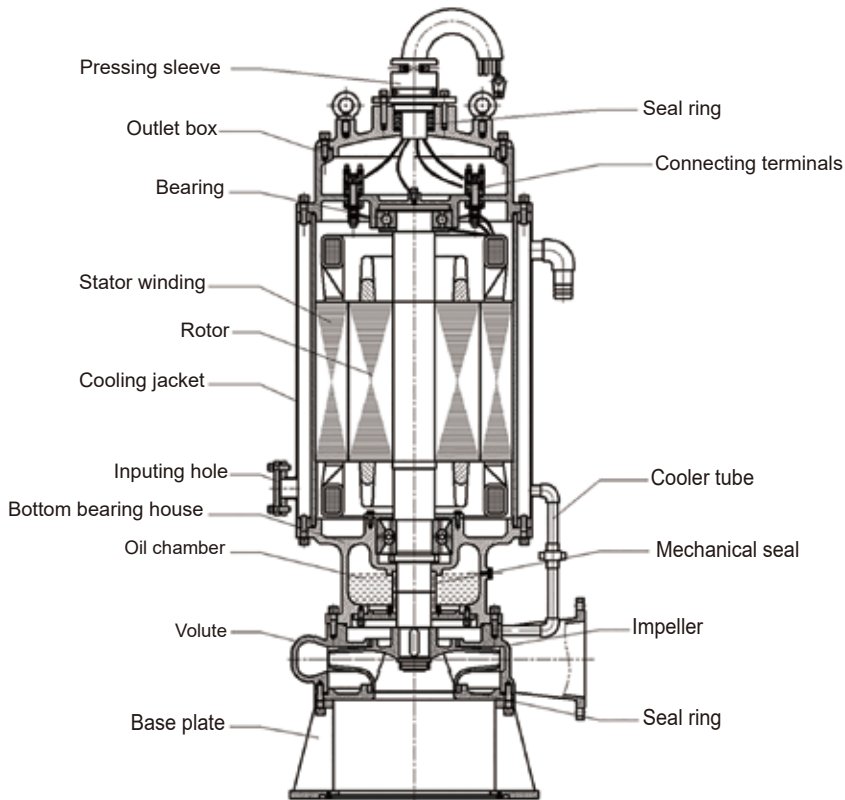
Explosion-proof main point

When the explosive gas mixture in the explosive-proof submersible sewage pump motor explodes, explosive-proof shell shall not be damaged and the internal flame will not cause further explosion. The parts of explosive shell are tested by water pressure tests according to GB3836.2- 2000 standard to ensure maximum internal pressure explosion.

The explosive-proof submersible sewage pump is marked as ExdIIBT4/ExdIICT4, which is suitable for factory IIB/IIC class, temperature group is T1-T4 of combustible gas and explosive mixture of steam and air. The maximum surface temperature must be in accordance with following list:

| Temperature Group | T1 | T2 | T3 | T4 |
|-----------------------------|-----|-----|-----|-----|
| Maximum surface temperature | 450 | 300 | 200 | 200 |

WQ(B)series -External mounted electric pump



WQ(B)

performance parameter

| Serial number | Model | Flow (m³/h) | Head (m) | Synchronous speed (r/min) | Power (kW) | Efficiency (%) | Outlet diameter (mm) |
|---------------|------------|-------------|----------|---------------------------|------------|----------------|----------------------|
| 1 | 10-15-1.5 | 10 | 15 | 3000 | 1.5 | 31 | 50 |
| 2 | 15-16-1.5 | 15 | 16 | | | 32.5 | |
| 3 | 25-7-1.5 | 25 | 7 | | | 35.5 | |
| 4 | 15-22-2.2 | 15 | 22 | | 2.2 | 36 | |
| 5 | 25-15-2.2 | 25 | 10 | | | 36 | |
| 6 | 35-7-2.2 | 35 | 7 | | | 38 | |
| 7 | 10-32-3 | 10 | 32 | | 3 | 31 | 65 |
| 8 | 15-25-3 | 15 | 25 | | | 31.5 | |
| 9 | 25-15-3 | 25 | 15 | | | 37 | |
| 10 | 40-12-3 | 40 | 12 | | | 41.5 | |
| 11 | 52-7-3 | 52 | 7 | | 4 | 41.5 | 80 |
| 12 | 15-32-4 | 15 | 32 | | | 34.6 | 50 |
| 13 | 20-30-4 | 20 | 30 | | | 41 | |
| 14 | 25-22-4 | 25 | 22 | | | 37.8 | |
| 15 | 50-15-4 | 50 | 15 | | | 43.3 | 80 |
| 16 | 75-8-4 | 75 | 8 | | | 44 | 100 |
| 17 | 12-50-5.5 | 12 | 50 | | 5.5 | 33 | 50 |
| 18 | 20-40-5.5 | 20 | 40 | | | 34 | |
| 19 | 30-30-5.5 | 30 | 30 | | | 44 | |
| 20 | 40-20-5.5 | 40 | 20 | | | 44.5 | 80 |
| 21 | 70-15-5.5 | 70 | 15 | | 7.5 | 45.8 | |
| 22 | 100-10-5.5 | 100 | 10 | | | 52.5 | 100 |
| 23 | 25-50-7.5 | 25 | 50 | | | 46.7 | 50 |
| 24 | 30-36-7.5 | 30 | 36 | | | 44.5 | |
| 25 | 50-30-7.5 | 50 | 30 | | | 55 | |
| 26 | 75-20-7.5 | 75 | 20 | | | 55 | 80 |
| 27 | 100-15-7.5 | 100 | 15 | | | 55.3 | 100 |

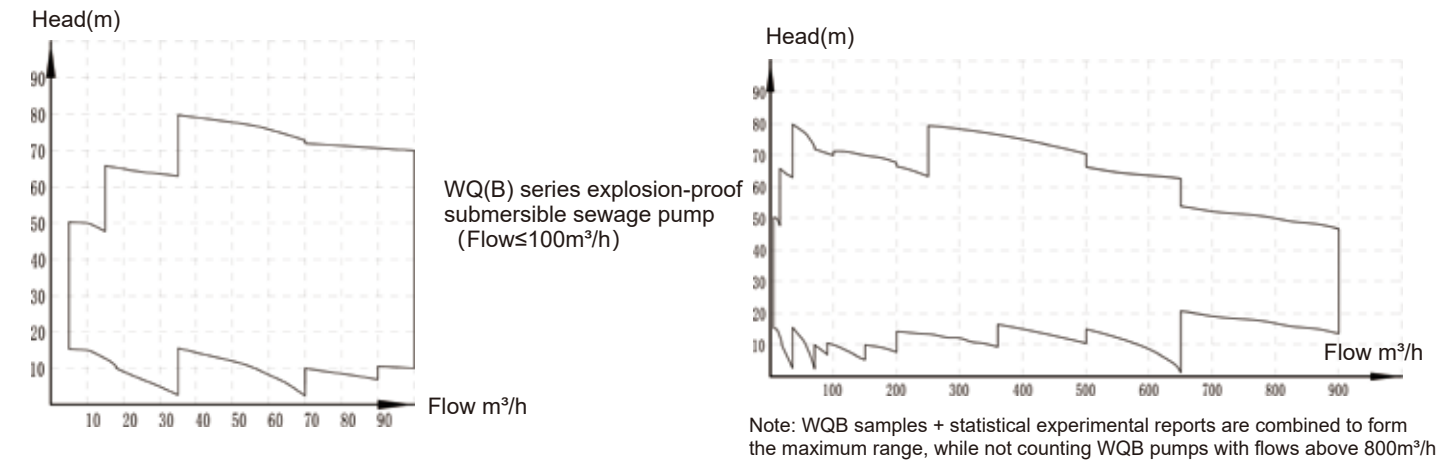
WQ(B)

performance parameter

| Serial number | Model | Flow (m³/h) | Head (m) | Synchronous speed (r/min) | Power (kW) | Efficiency (%) | Outlet diameter (mm) |
|---------------|-------------|-------------|----------|---------------------------|------------|----------------|----------------------|
| 28 | 145-10-7.5 | 145 | 10 | 3000 | 7.5 | 56.5 | 150 |
| 29 | 20-65-11 | 20 | 65 | 1500 | 11 | 38.6 | 50 |
| 30 | 40-40-11 | 40 | 40 | | | 46 | 80 |
| 31 | 50-35-11 | 50 | 35 | | | 56 | |
| 32 | 80-20-11 | 80 | 20 | | | 56.5 | 100 |
| 33 | 150-15-11 | 150 | 15 | | | 55.8 | 150 |
| 34 | 200-10-11 | 200 | 10 | | 15 | 57.5 | |
| 35 | 40-50-15 | 40 | 50 | | | 44 | 80 |
| 36 | 60-35-15 | 60 | 35 | | | 45.3 | 100 |
| 37 | 100-22-15 | 100 | 22 | | | 48.6 | |
| 38 | 170-18-15 | 170 | 18 | | | 56.5 | 150 |
| 39 | 200-15-15 | 200 | 15 | | 18.5 | 57 | |
| 40 | 300-10-15 | 300 | 10 | | | 58 | 200 |
| 41 | 80-35-18.5 | 80 | 35 | | | 47 | 100 |
| 42 | 100-30-18.5 | 100 | 30 | | | 48 | |
| 43 | 150-25-18.5 | 150 | 25 | | 22 | 57.5 | 150 |
| 44 | 250-15-18.5 | 250 | 15 | | | 59 | 200 |
| 45 | 40-80-22 | 40 | 80 | | | 44 | 80 |
| 46 | 60-50-22 | 60 | 50 | | | 45.8 | |
| 47 | 80-40-22 | 80 | 40 | | | 47 | |
| 48 | 150-30-22 | 150 | 30 | | 22 | 59.3 | 150 |
| 49 | 200-20-22 | 200 | 20 | | | 60 | |
| 50 | 300-15-22 | 300 | 15 | | | 61 | 200 |
| 51 | 80-60-30 | 80 | 60 | | | 48.5 | 80 |
| 52 | 120-50-30 | 120 | 50 | | 22 | 57.8 | 150 |
| 53 | 200-30-30 | 200 | 30 | | | 59 | |
| 54 | 300-20-30 | 300 | 20 | | | 61 | 200 |

| Serial number | Model | Flow (m³/h) | Head (m) | Synchronous speed (r/min) | Power (kW) | Efficiency (%) | Outlet diameter (mm) |
|---------------|-------------|-------------|----------|---------------------------|------------|----------------|----------------------|
| 55 | 400-15-30 | 400 | 15 | 1500 | 30 | 63 | 200 |
| 56 | 100-70-37 | 100 | 70 | | 37 | 58.5 | 100 |
| 57 | 150-45-37 | 150 | 45 | | | 62 | 150 |
| 58 | 350-25-37 | 350 | 25 | | | 69.5 | 200 |
| 59 | 500-15-37 | 500 | 15 | | | 72 | 250 |
| 60 | 150-50-45 | 150 | 50 | | 45 | 57 | 150 |
| 61 | 400-25-45 | 400 | 25 | | | 66 | 200 |
| 62 | 500-20-45 | 500 | 20 | | | 67 | 250 |
| 63 | 600-15-45 | 600 | 15 | | 55 | 69 | 250 |
| 64 | 150-70-55 | 150 | 70 | | | 58 | 150 |
| 65 | 200-50-55 | 200 | 50 | | | 59 | 150 |
| 66 | 400-30-55 | 400 | 30 | | | 66.6 | 200 |
| 67 | 500-25-55 | 500 | 25 | | 55 | 68.3 | 250 |
| 68 | 600-20-55 | 600 | 20 | | | 68.5 | 250 |
| 69 | 200-70-75 | 200 | 70 | | 75 | 58 | 100 |
| 70 | 300-50-75 | 300 | 50 | | | 60.5 | 200 |
| 71 | 400-40-75 | 400 | 40 | | | 67 | 200 |
| 72 | 600-28-75 | 600 | 25 | | | 68 | 250 |
| 73 | 800-20-75 | 800 | 20 | | | 69 | 300 |
| 74 | 220-70-90 | 220 | 70 | | 90 | 58.5 | 150 |
| 75 | 300-60-90 | 300 | 60 | | | 62 | 200 |
| 76 | 500-35-90 | 500 | 35 | | | 64 | 200 |
| 77 | 900-20-90 | 900 | 20 | | 110 | 70 | 300 |
| 78 | 400-60-110 | 400 | 60 | | | 69.8 | 200 |
| 79 | 600-40-110 | 600 | 40 | | | 70 | 250 |
| 80 | 700-32-110 | 700 | 32 | | | 71.5 | 250 |
| 81 | 1000-25-110 | 1000 | 25 | | | 73 | 300 |

| Serial number | Model | Flow (m³/h) | Head (m) | Synchronous speed (r/min) | Power (kW) | Efficiency (%) | Outlet diameter (mm) |
|---------------|-------------|-------------|----------|---------------------------|------------|----------------|----------------------|
| 82 | 600-50-132 | 600 | 50 | 1500 | 132 | 70 | 200 |
| 83 | 500-60-132 | 500 | 60 | | | 69 | 200 |
| 84 | 800-35-132 | 800 | 35 | | | 69.8 | 250 |
| 85 | 1000-30-132 | 1000 | 30 | | | 80 | 300 |
| 86 | 700-50-160 | 700 | 50 | | 160 | 71.3 | 250 |
| 87 | 1000-35-160 | 1000 | 35 | | | 75 | 350 |
| 88 | 1500-25-160 | 1500 | 25 | | | 76.5 | 400 |
| 89 | 2000-20-160 | 2000 | 20 | | | 80 | 400 |
| 90 | 800-50-185 | 800 | 50 | | 185 | 72.3 | 250 |
| 91 | 1000-40-185 | 1000 | 40 | | | 73.8 | 300 |
| 92 | 1500-30-185 | 1500 | 30 | | | 74.9 | 400 |
| 93 | 2500-18-185 | 2500 | 18 | | | 81.4 | 200 |
| 94 | 1200-40-200 | 1200 | 40 | | 200 | 76 | 350 |
| 95 | 1500-32-200 | 1500 | 32 | | | 77.4 | 400 |
| 96 | 2000-25-200 | 2000 | 25 | | | 80 | 400 |
| 97 | 3000-16-200 | 3000 | 16 | | | 79.8 | 500 |





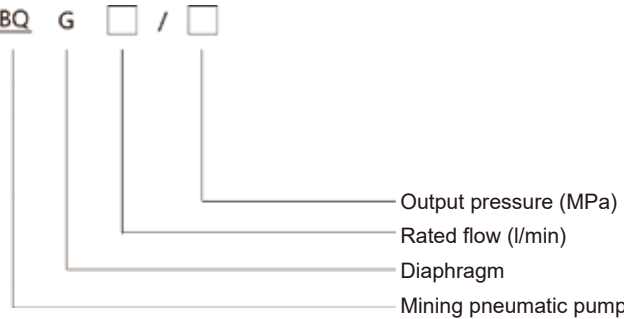
Outstanding features

- 1. Low energy consumption, environmental friendly;
- 2. Compact design, light weight, simple operation, wide application;
- 3. Pneumatic design, safe and reliable;
- 4. No damage to the pump during on load or overload condition;
- 5. Reciprocating motion without pause, high efficiency.

Working condition

- a) Pump any fluid medium as long as the medium concentration (volume ratio) is less than 15%.
- b) The maximum diameter of solid particles should not be over 9mm.
- c) Working temperature 5-50°C.
- d) Medium PH 6-8.
- e) Medium temperature should not be over 50°C.
- f) Pressure range 0.4MPa -0.8MPa.

Model and meaning



BQG170/0.25Z represents mining automatic diaphragm pump; rated flow is 170L/min,output pressure is 0.25Mpa.

Performance parameters

| Model | Flow (L/min) | Output pressure (Mpa) | Air consumption (m³/h) | Rated air pressure (Mpa) | Weight (kg) | Dimension (mm) | Inlet/Outlet diameter (inch) |
|-------------|--------------|-----------------------|------------------------|--------------------------|-------------|----------------|------------------------------|
| BQG170/0.25 | 170 | 0.25 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG140/0.3 | 140 | 0.3 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG100/0.4 | 100 | 0.4 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG230/0.25 | 230 | 0.25 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG180/0.3 | 180 | 0.3 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG100/0.5 | 100 | 0.5 | 0.5-1.5 | 0.6 | 25 | 490×400×340 | 1.5 |
| BQG350/0.2 | 350 | 0.2 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG125/0.45 | 125 | 0.45 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG250/0.3 | 250 | 0.3 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG380/0.3 | 380 | 0.3 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG400/0.25 | 400 | 0.25 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG150/0.5 | 150 | 0.5 | 1.2-2 | 0.6 | 33 | 644×438×390 | 2 |
| BQG450/0.3 | 450 | 0.3 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG450/0.2 | 450 | 0.2 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG200/0.4 | 200 | 0.4 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG320/0.3 | 320 | 0.3 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG500/0.2 | 500 | 0.2 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG620/0.2 | 620 | 0.2 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG700/0.12 | 700 | 0.12 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |
| BQG200/0.5 | 200 | 0.5 | 1.5-2.5 | 0.6 | 55 | 890×538×477 | 3 |



Outstanding features

- 1.Low noise, kept within 40 decibels, can be dived, and there is no noise in diving;
- 2.Small air consumption and high efficiency.
- 3.Small size, light weight, compact structure and portability.
- 4.The whole pump is made of cast steel, with a longer service life and few wearing parts, which is easy to maintain

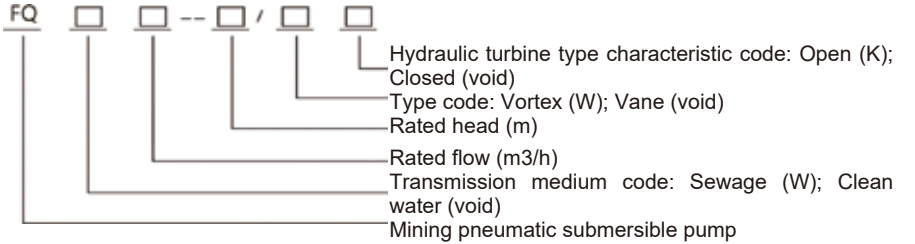
Performance parameters

| Model | Rated flow (m³/h) | Rated head (m) | Working pressure (Mpa) | Air consumption (m³/h) | Weight (kg) | Dimension (mm) | Outlet diameter (mm) | Outlet diameter (mm) |
|------------|-------------------|----------------|------------------------|------------------------|-------------|----------------|----------------------|----------------------|
| FQW30-18/W | 30 | 18 | 0.5 | 3.5~4.5 | 17.5 | 412×297 | 50 | 25 |
| FQW20-25/W | 20 | 25 | 0.5 | 3.5~4.5 | 17.5 | 412×297 | 50 | 25 |
| FQW20-40/W | 20 | 40 | 0.5 | 3.5~4.5 | 17.5 | 412×297 | 50 | 25 |
| FQW25-10 | 25 | 10 | 0.5 | 3.5~4.5 | 17.5 | 412×297 | 50 | 25 |

Outstanding features

- 1.Low noise, kept within 40 decibels
- 2.Small air consumption and high efficiency.
- 3.Small size, light weight, compact structure and portability.

Model and meaning



Performance parameters

| Model | Rated flow (m³/h) | Rated head (m) | Working pressure (Mpa) | Air consumption (m³/h) | Weight (kg) | Dimension (mm) | Outlet diameter (mm) |
|------------|-------------------|----------------|------------------------|------------------------|-------------|----------------|----------------------|
| FQW20-25/W | 20 | 25 | 0.5 | 4.5~5 | 30 | 347×274×462 | 40 |
| FQW20-40/W | 20 | 40 | 0.5 | 4.5~5 | 34 | 329×274×495 | 40 |
| FQW40-20/W | 40 | 20 | 0.5 | 4.5~5 | 31 | 347×274×462 | 40 |
| FQW25-50/W | 25 | 50 | 0.5 | 4.5~5 | 35 | 329×274×495 | 40 |
| FQW30-18/W | 30 | 18 | 0.5 | 4.5~5 | 35 | 329×274×495 | 40 |
| FQW50-25/W | 50 | 25 | 0.5 | 4.5~5 | 32 | 347×274×462 | 40 |
| FQW48-12/W | 48 | 12 | 0.5 | 4.5~5 | 31 | 347×274×462 | 40 |



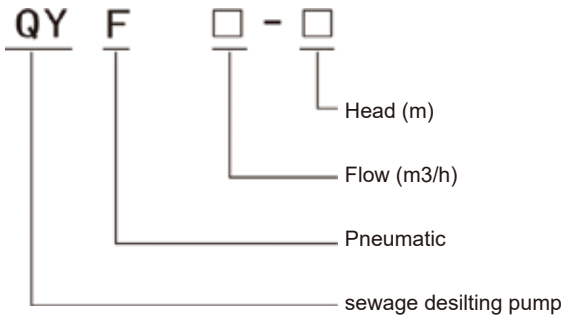
Outstanding features

- 1. Strong desilting capacity. It can pump flow materials with high solid contents.
- 2. Pneumatic products, no electronic parts, safe and reliable.
- 3. Compact structure, ingenious design, automatic operation.
- 4. No contact between moving parts and medium, wear-resistance, stable operation and long service life.
- 5. No damage during no-load or overload, easy maintenance.
- 6. Small size, light weight, portability, easy operation and wide application.

Working condition

- a) Inlet of the suction pipe submerges into the water.
- b) Medium temperature should not be over 40°C.
- c) Working environment temperature 5-40°C.
- d) Medium PH 4-10.
- e) The maximum diameter of solid particle should not be over 20mm.
- f) Air pressure 0. 40MPa-0.70MPa.

Model and meaning



Model example: QYF20-20 represents mining sewage desilting pump medium for sewage, dirt, silt, etc. Rated flow is 20m3/h, rated head is 20m.

Performance parameters

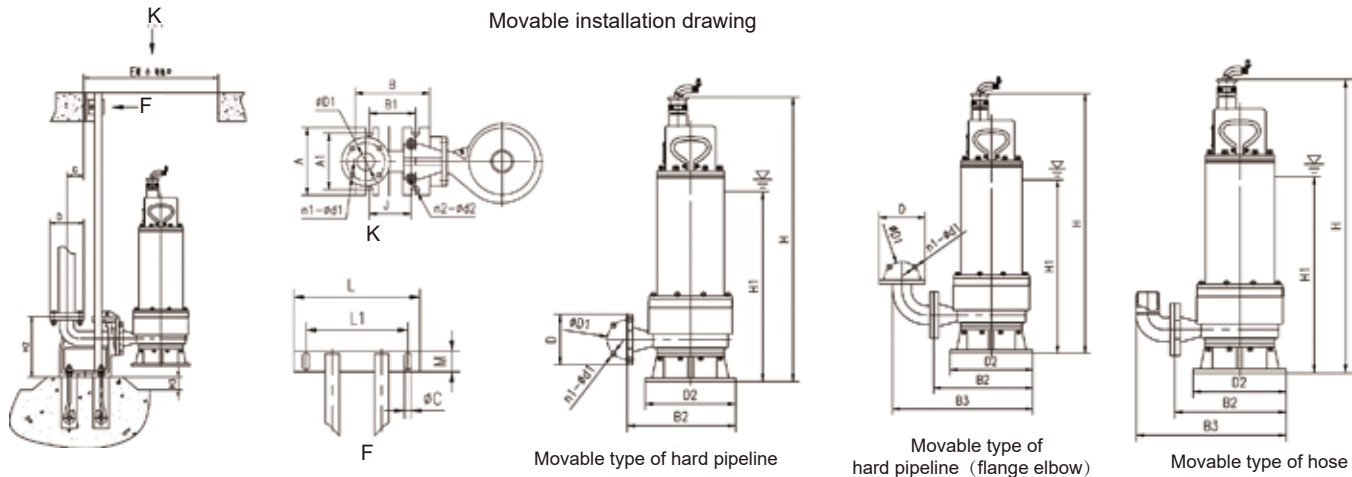
| Model | Flow (m³/h) | Pump head (m) | Rated wind pressure (Mpa) | limiting vacuum (Mpa) | Air consumption (m³/h) | Weight (kg) | Dimension (mm) | Input/Output Diameter (inch) |
|----------|-------------|---------------|---------------------------|-----------------------|------------------------|-------------|----------------|------------------------------|
| QYF10-20 | 10 | 20 | 0.6 | 0.08 | 2.5~3 | 216 | 1830×750×950 | 3 |
| QYF14-20 | 14 | 20 | 0.6 | 0.08 | 3~3.5 | 235 | 1773×600×1000 | 3 |
| QYF17-20 | 17 | 20 | 0.6 | 0.08 | 3.5~4.5 | 256 | 1977×700×1100 | 3 |
| QYF20-20 | 20 | 20 | 0.6 | 0.08 | 4.5~5.5 | 285 | 1593×800×1200 | 3 |
| QYF25-20 | 25 | 20 | 0.6 | 0.08 | 6.5~7.5 | 285 | 1610×800×1200 | 3 |
| QYF25-25 | 25 | 25 | 0.6 | 0.08 | 6.5~7.5 | 310 | 1891×879×1724 | 3 |
| QYF20-30 | 20 | 30 | 0.6 | 0.08 | 7.5~8.5 | 310 | 1891×879×1724 | 3 |
| QYF30-20 | 30 | 20 | 0.6 | 0.08 | 7.5~9.5 | 365 | 1610×879×1736 | 3 |
| QYF30-25 | 30 | 25 | 0.6 | 0.08 | 8.5~10.5 | 365 | 1610×879×1736 | 3 |
| QYF35-25 | 30 | 25 | 0.6 | 0.08 | 9.5~10.5 | 365 | 1610×879×1736 | 3 |

Installation method

Movable wet installation
The pump is connected with hose or steel pipe and put directly into the water without fixing, which is convenient to transfer to different sites.

Automatic coupling fixed wet mounting

The pump is automatically connected to the drain line using a coupling device. The pump is placed into the water along the guide rod and is automatically connected to the automatic drainage pipe. When lifting the pump, it is automatically loosened, and the installation and disassembly are extremely convenient.

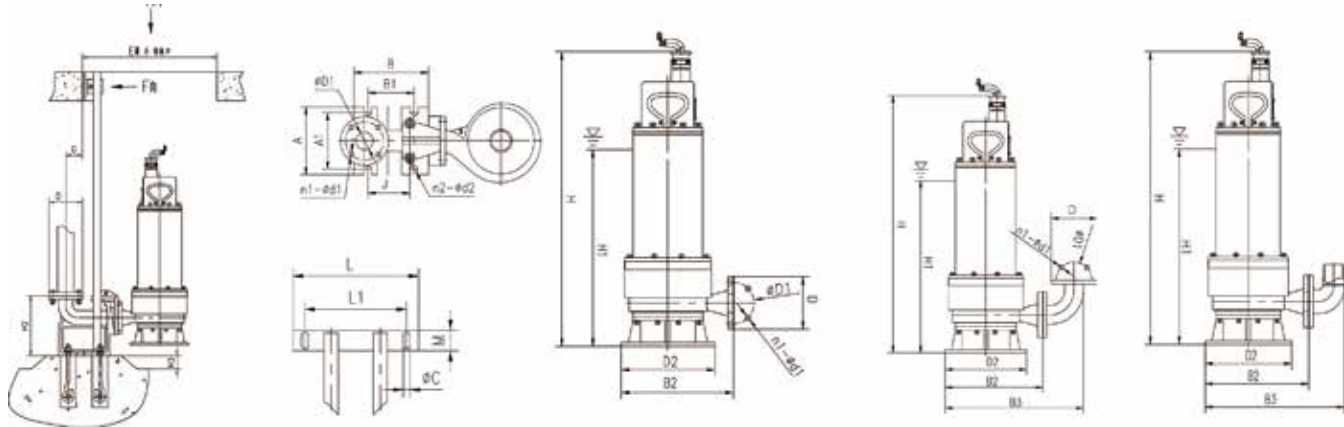


Vertical fixed dry installation

The pump is installed vertically in a clean pump pit beside the pool, and personnel can enter the pump pit to quick repair. Even if the pump pit is flooded, the pump can still operate normally.

Horizontal fixed dry installation

The pump is installed horizontally in a clean pump pit beside the pool, and personnel can enter the pump pit to quick repair. Even if the pump pit is flooded, the pump can still operate normally.



Pump model selection

Find the desirable pump in the basic parameter charts according to the requirement of flow Q(m³/h) and head (m). The flow should be in the range from -2%to +5% of the requirement, head should be above 2%- 3% of the requirement.

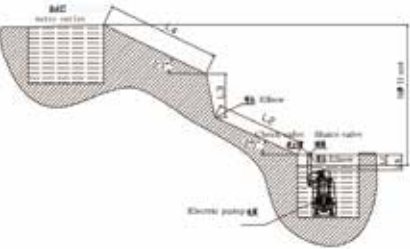
As for how to choose the right pump, the following are some brief instructions that might be of help.

The flow stated on the pump' s nameplate and performance parameter chart is known as the rated flow, and the corresponding head is known as rated head (generally it is when the pump achieve the best performance). Assume that the speed of the pump keep the same, generally speaking, as the flow increase, the corresponding head will decrease, while the input (output) power of the motor will increase with the increase of the flow. If the flow excess the rated flow 1.2 times,the motor will run overload, leading to the burn of the submersible motor.

The flow is the amount of fluid delivered by the pump in one unit time; the head is the energy increment when one unit weight of fluid is pumped from the inlet to the outlet (In short,under the condition of no energy consumption, the head is the vertical height between the water surface inside the pump and the resulting water level when one unit weight of fluid is pumped, i.e. the vertical water level measured in meters).

Must know when choosing the head: 1.Net head - the vertical water level (m); 2.H(required) = H(net) + H(loss); 3.H(loss) - the energy loss when the fluid flow through parts like the pipe, valve and elbow, etc.

For example (as below):



As for the inclined shaft in mines, the net head cannot be measured directly, generally speaking, we can only know the slope angle and slope length.

As shown in figure: H net =L1+L2sin25 degrees+L3+L4sin23degrees.

If: L1=3m; L2=50m; L3=5m;L4=70m; L5=5m,

then:H net = 3+50sin25 degrees +5+70sin23 degrees

=3+50* 0.423+5+70*0.391=56.482(m)

The following table lists the sine function values for the common sloping slo.

Table 1: the common mine slope angle sine function value.

| α° | Sinα° | α° | Sinα° | α° | Sinα° | α° | Sinα° |
|-----|-------|-----|-------|-----|-------|-----|-------|
| 15° | 0.259 | 20° | 0.342 | 25° | 0.423 | 30° | 0.500 |
| 16° | 0.276 | 21° | 0.358 | 26° | 0.433 | 31° | 0.515 |
| 17° | 0.292 | 22° | 0.375 | 27° | 0.454 | 32° | 0.530 |
| 18° | 0.309 | 23° | 1.391 | 28° | 0.470 | 33° | 0.545 |
| 19° | 0.326 | 24° | 0.407 | 29° | 0.485 | 34° | 0.559 |

Pipe loss calculation: convert whole water pipe (including valve and elbow) into equivalent length, then look for the loss value according to flow volume and equivalent length from table 2.

Table 2 : Straight pipe friction loss simple list (for estimating)

| Pipe loss(m) Nominal diameter(mm) | Flow(m³/h) | | | | | | | | | | | |
|--------------------------------------|------------|----|----|----|----|----|----|----|-----|-----|-----|-----|
| | 15 | 20 | 25 | 30 | 40 | 50 | 70 | 80 | 100 | 120 | 150 | 200 |
| 50 | 10 | 17 | 21 | 28 | | | | | | | | |
| 75 | 2 | 3 | 4 | 6 | 10 | 15 | 26 | 45 | | | | |
| 100 | | | | 2 | 3 | 4 | 6 | 9 | 12 | 20 | 25 | 35 |
| 125 | | | | | | | | 3 | 5 | 8 | 15 | 22 |
| 150 | | | | | | | | | 1 | 2 | 4 | 7 |

Table 2 is the loss of each 100m steel pipe, plastic pipe loss of about 0.7 times the steel pipe. Rubber pipe loss is almost equal to steel pipes, cast iron pipe loss is about 1.4 times of steel pipers, old cast iron pipe loss is 2 times of new cast iron pipes.

Table 3: Each valve and elbow convert into straight pipe length;

| kind | Equivalent length of pipe | Remarks |
|-----------------|------------------------------------|-----------------------|
| Open gate valve | 13 times the diameter of the pipe | Double not fully open |
| Standard elbow | 25 times the diameter of the pipe | |
| Check valve | 100 times the diameter of the pipe | |

Above figure w: 5m3/h, according to list 3, then calculate equivalent pipe length:

equivalent pipe length L=L5+L2+L3+L4+13×0.075+3×25×0.075+1×100×0.075

=5+50+5+70+0.975+5.625+7.5=144.1(m)

Loss every 100m is 15m from list 2 according to pipe diameter and flow volume.

H loss=15×144.1/100=21.615m

H need=H net+ H loss=56.482+21.615=78.097(m)

H rated = H need×(1.02~1.03)=(79~80) m

Find corresponding or similar pump type according to H rated (79~80m) and flow volume50m³/h from pump fundamental performance parameter and confirm the right one.

Order instructions

- 1.Please indicate the product model, product name, performance parameters (flow, head), installation, accessories when placing an order.
- 2.Please provide medium details including medium density, PH, solid content, particle size etc., we shall offer the proper model for your reference.

After-sales service

- Currently, Antai pump has built 13 after-service sites at home and abroad, we can provide the service items as below:
- Technical training
 - Equipment evaluation
 - Installation and adjustment
 - Trouble-shooting
 - Maintenance and repairing
 - The modification & improvement of equipment.

