

BORRA Delivers Heavy-Duty Drain Pumps & Expert Booster Pump Installation Guidance

BORRA supplies certified drain pump system and authoritative booster pump installation guidance for construction, municipal and building water project worldwide

YUEQING, ZHEJIANG, CHINA, July 29, 2026 /EINPresswire.com/ -- Reliable water drainage and pressurized supply are foundational to construction sites, municipal infrastructure, agricultural operations and commercial buildings. Poor pump selection or improper system installation can lead to costly downtime, equipment damage and project delays. As an export-oriented pump manufacturer with three decades of industry experience, [BORRA](#) delivers high-performance pumping solutions and professional technical guidance to clients across more than 60 countries and regions.

1.About BORRA: 30+ Years of Pump R&D and Manufacturing Excellence

Founded in 1995, BORRA specializes in the research, development, manufacturing and project delivery of fire pumps, diesel pump sets, drainage pumps and industrial water supply systems. The company operates a modern production facility with dedicated machining, assembly and component storage workshops, supporting a portfolio of 161+ product models across fire protection, water supply, drainage and industrial transfer categories.



a leading manufacturer of industrial water pumps, fire fighting equipment and integrated pumping systems



drain-pump

BORRA products are manufactured under strict quality management systems and hold multiple international certifications including ISO 9001, ISO 14001, ISO 45001, CE and NFPA 20. Recognized as a national high-tech enterprise, the company has earned the trust of leading industry clients including Country Garden, AVIC, SUMEC, BUCG, China Railway, Zijin Mining and Honghua Group across residential, commercial, infrastructure and industrial sectors.

Beyond standard product lines, BORRA provides full OEM and ODM customization services tailored to specific project requirements. The team offers dedicated export support and 24-hour response service, ensuring smooth communication and reliable after-sales support for international buyers throughout the project lifecycle.

2.Comprehensive [Drain Pump](#) Portfolio for Diverse Field Applications

For construction dewatering, municipal drainage, agricultural irrigation and fluid transfer projects, selecting the right pump configuration directly impacts operational efficiency and long-term reliability. BORRA's complete Drain Pump product line covers a full range of designs to suit different media types, working conditions and installation scenarios.

The product lineup includes specialized models for every core application:

Clean water centrifugal pumps: The IS series delivers stable performance for municipal water supply and industrial clean water transfer duties.

Self-priming sewage & drain pumps: The SP jam-less self-priming drain pump, construction-grade self-priming sewage pump and ZW non-clogging self-priming sewage pump handle



booster-pump-installation



FIRE-PUMP

wastewater containing solid particles, making them ideal for construction site dewatering, municipal wastewater handling and stormwater drainage. Their self-priming design eliminates the need for foot valves and simplifies rapid deployment.

Submersible sewage pumps: The WQ series submersible sewage pump is built for fully submerged dewatering applications, suitable for deep sumps, underground drainage systems and site dewatering projects.

Agricultural irrigation pumps: The QJ deep well pump and ZX self-priming water pump support groundwater lifting and farmland irrigation, with durable construction for long-term outdoor operation.

Petrochemical transfer pumps: The CYZ-A self-priming oil pump is engineered for petrochemical liquid transfer, fuel loading and circulation duties, with specialized sealing and material configurations for flammable liquid handling.

For each project, BORRA's technical team provides tailored pump selection based on confirmed parameters including flow rate, head, medium type, solids content, suction depth, power supply and installation conditions, ensuring optimal performance and cost efficiency.

3. Professional [Booster Pump Installation](#) Guidance for Reliable System Performance

For residential buildings, commercial properties and industrial facilities requiring stable pressurized water supply, proper system design and installation are critical to consistent pressure performance and long equipment service life. BORRA's authoritative Booster Pump Installation guidelines help clients avoid common design mistakes and deploy systems that deliver reliable, long-term performance.

The core principle of proper booster pump installation is to start with the duty point, not the pump model. Before selecting equipment, project teams must define peak and normal flow rates, available inlet pressure, target outlet pressure, pipe losses and power supply characteristics. Sizing a pump based on pipe diameter or motor power alone is the most common cause of unstable pressure and premature failure.

A standard booster pump installation follows this hydraulic sequence: water source, suction



Trailer-Pump

isolation valve, optional strainer and flexible connector, pump inlet, pump discharge, check valve, pressure sensor or switch, pressure tank branch, discharge isolation valve, and building distribution line. The check valve is always installed on the discharge side to prevent reverse flow, while the pressure tank must be connected to the controlled pressure side to properly buffer demand fluctuations and reduce pump cycling.

Before commissioning, installers should complete a full pre-start checklist: confirm the pump is securely anchored, piping is independently supported, all valves are set to the correct position, the pump is properly primed and vented, and motor rotation direction is correct. Teams should also verify that dry-run protection and safety interlocks are properly wired. During commissioning, baseline readings of suction pressure, discharge pressure, motor current, noise and vibration should be recorded for future maintenance reference.

Most installation failures stem from avoidable mistakes: undersized suction piping causing cavitation, incorrectly charged pressure tanks leading to short cycling, missing or leaking check valves, and wrong controller settings. BORRA's technical guide helps clients identify and resolve these issues early, reducing rework and commissioning delays. For client projects, BORRA provides on-demand technical support to guide installation and commissioning, ensuring systems are deployed correctly and perform as designed.

4.Frequently Asked Questions

Q: What types of drain pumps does BORRA manufacture?

A: BORRA offers a comprehensive drain pump portfolio including IS clean water centrifugal pumps, SP jam-less self-priming drain pumps, construction-grade self-priming sewage pumps, ZW non-clogging self-priming sewage pumps, WQ submersible sewage pumps, QJ deep well pumps, ZX irrigation self-priming pumps and CYZ-A self-priming oil pumps for petrochemical applications. They serve construction dewatering, municipal drainage, agricultural irrigation and industrial fluid transfer use cases.

Q: What data is required to plan a proper booster pump installation?

A: To correctly size and plan a booster pump system, you should provide peak and normal flow rates, available inlet pressure range, target outlet pressure, pipe size, power supply specifications, control mode preference and available installation space. For buildings with multiple pressure zones or rooftop tanks, additional layout details will help optimize the system design.

Q: What certifications does BORRA hold for its pump products?

A: BORRA holds ISO 9001 quality management certification, ISO 14001 environmental management certification, ISO 45001 occupational health and safety certification, CE certification and NFPA 20 certification for fire pump products. The company is also officially recognized as a national high-tech enterprise.

Q: What details are needed to get an accurate drain pump quotation?

A: To receive a precise project quotation, buyers should confirm flow rate, head pressure, liquid medium type and solids content, suction or submergence depth, power supply specifications, installation site conditions, required quantity and destination. These parameters allow the technical team to select the optimal pump model and configuration.

Q: What causes a booster pump to short cycle after installation?

A: Rapid start-stop cycling is most commonly caused by an undersized or incorrectly pre-charged pressure tank, system leaks, an overly narrow pressure differential setting, or a pressure sensor placed in the wrong location. Operating below the pump's minimum stable flow rate can also cause frequent cycling.

5.Final Thoughts

From construction site dewatering to municipal drainage and commercial building water supply, reliable pumping equipment and proper installation are essential to keeping projects and operations running smoothly. With 30+ years of manufacturing expertise, a comprehensive product portfolio, internationally certified quality and dedicated export support, BORRA is a trusted partner for pump projects of all scales.

Whether you are sourcing bulk drain pumps for a large infrastructure project, designing a custom booster water supply system for a commercial building, or seeking technical guidance on proper installation and commissioning, BORRA's technical and sales teams provide end-to-end support from initial inquiry through after-sales service. To explore the full product catalog, download technical datasheets or request a customized project quotation, visit the official website or contact the international sales team today.

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