

SWJAL
PURE PROCESS

ART OF WATER CHEMISTRY



MEMBRANE | ANALYZERS | DOSING | VALVES

www.swjal.com

ISO 9001 - 15000 | ISO 14000 | ISO 45001

Ion Exchanges Resins



Cation Resins:

Swjal Process Pvt Ltd offers high-capacity cation exchange resins designed for effective removal of positively charged ions like calcium, magnesium, and iron. These resins are critical for softening and demineralization processes, providing high-purity water necessary for pharmaceutical and biotechnology applications.

SuperCharge Resins:

SuperCharge Resins offer enhanced ion exchange capacity and extended life, making them ideal for demanding water purification processes. These resins deliver superior performance, ensuring maximum efficiency and cost-effectiveness in high-volume applications.

Water Softener Resins:

Swjal water softener resins effectively remove calcium and magnesium ions, preventing scale buildup and extending equipment life. Designed for industries requiring consistent soft water, like food and pharmaceuticals, our resins ensure smooth operations by exchanging hardness ions for sodium, delivering optimal performance and reliability in your water systems.

Anion Resins:

Our anion exchange resins are designed to efficiently remove negatively charged ions such as chloride, sulfate, and nitrate. Essential for deionization and other high-purity applications, these resins are pivotal in producing ultra-pure water for the pharmaceutical, biotech, and cosmetic industries.

From Global Brands



Reverse Osmosis Membranes



Brackish Water Membrane:

Our brackish water RO membranes are designed to treat water with moderate salinity of 1,000-10,000 ppm TDS, effectively reducing salt and contaminant levels. These membranes provide high rejection rates and are ideal for producing potable and process water for industries like food, pharma, and cosmetics.

Sea Water Membrane:

Swjal's seawater membranes, engineered for advanced desalination, convert seawater into fresh, potable water with high salt rejection and durability. They ensure ultra-pure water by removing salts, bacteria, and impurities, making them essential for industries requiring a reliable source of purified water in coastal or marine environments.

HSRO Membrane:

High Salt Rejection (HSRO) membranes are advanced reverse osmosis membranes designed to remove up to 99.7% of dissolved salts from water, making them ideal for applications in pharmaceutical drug manufacturing, equipment sterilization, and biotechnology where it is crucial to maintain extremely high purity levels even in the most challenging environments.



From Global Brands



Electrodeionization (EDI)



Hot Water Sanitizable EDI:

Our Hot Water Sanitizable EDI systems generate ultra-pure water through thermal sanitization, eliminating the need for chemicals. Built with materials that endure repeated high-temperature cycles, these systems consistently produce ultra-pure water at 85°C without damaging the EDI modules. Ideal for pharmaceutical and biotechnology facilities, they ensure the highest levels of water purity and system hygiene, making them perfect for operations where downtime is not an option.

Chemically Sanitizable EDI:

Swjal's Chemically Sanitizable EDI systems provide flexibility and ease of maintenance, allowing for effective chemical sanitization to ensure continuous deionization. Designed to deliver consistently high-purity water, these systems can handle strong sanitizing agents, keeping the water production process free from contaminants and microbial growth. This adaptability not only extends the system's lifespan but also enhances reliability, making our Chemical Sanitizable EDI systems ideal for various industrial applications where water quality is critical.



From Global Brands

IONPURE®

QUA®
PURE TECHNOLOGY

Process Analyzers

pH Analyzer:



Our pH analyzers provide accurate, real-time monitoring of pH levels, ensuring water quality and compliance with industry standards. These analyzers are vital for processes where pH control is critical, such as in pharmaceutical production and water treatment.

ORP Analyzer:

Swjal's ORP analyzers measure the oxidation-reduction potential, offering insights into the disinfection and corrosion control processes. Essential for monitoring water quality and ensuring safe and effective operations in industries like food and cosmetics.



TDS / Conductivity Analyzer:

Our TDS and conductivity analyzers deliver precise measurements of total dissolved solids and electrical conductivity, critical for maintaining water purity. These instruments are indispensable in industries requiring stringent water quality control, such as biotechnology and pharmaceuticals.

Chlorine Analyzer:

Swjal's chlorine analyzers provide continuous monitoring of chlorine levels in water, ensuring effective disinfection and safety. These analyzers are crucial for maintaining water quality in food, pharmaceutical, and cosmetic industries, where hygiene is paramount.



Ozone Analyzer:

Our ozone analyzers offer reliable detection and monitoring of ozone levels, essential for effective water sterilization and compliance with safety standards. These analyzers are critical in applications where ozone is used for disinfection, ensuring safe and efficient operations.

From Global Brands



Endress+Hauser



EMERSON



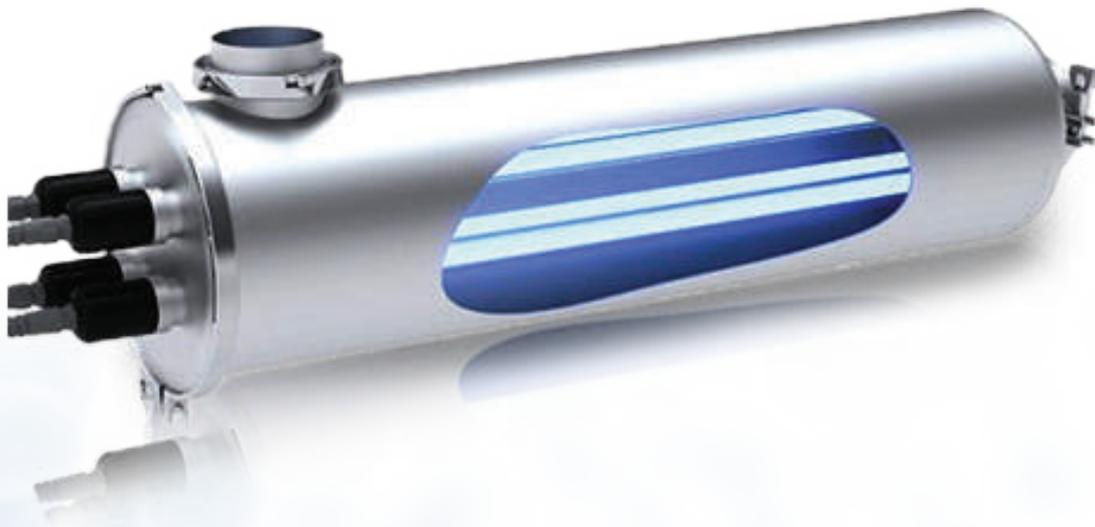
Ultra Violet UV Lamp

High-Intensity UV Lamp:



Swjal's UV purification systems provide unparalleled microbial control and high purity water. Our advance High Intensity UV purification technology effectively inactivates microorganisms preventing replication and killing by disrupting their DNA and RNA, ensuring thorough deactivation and elimination of contaminants at 254 nm. UV at 180 nm enhances this by breaking down large organic molecules into smaller, ionized components, which are then removed by high purity ion exchange resins.

This dual-action process ensures comprehensive disinfection and contaminant removal without chemicals. This dual-action make them ideal for polishing filtration, point-of-use treatment, and sensitive applications like pharmaceuticals, our UV systems offer rapid, chemical-free disinfection, reduce operational costs, and maintain consistent water quality.



From Global Brands



Dosing Chemicals



Sodium Hypochlorite

Sodium Hypochlorite is a versatile disinfectant widely used in water treatment for microbial control. Swjal supply high-quality NaOCl for consistent and reliable disinfection, ensuring the safety and hygiene of water systems in industries such as food and pharmaceuticals.



Sodium Metabisulfite (SMBS)

Our Sodium Metabisulfite is used to neutralize chlorine and protect RO membranes from oxidative damage. This chemical is crucial in processes where chlorine needs to be effectively removed to prevent system degradation and ensure long-term operational efficiency.

Sodium Hexametaphosphate (NaPO₃)₆

Swjal offers Sodium Hexametaphosphate as an effective anti-scalant, preventing scale formation in water systems. This chemical helps maintain system efficiency and reduces maintenance costs, making it essential for industries relying on consistent water quality.

pH Correction Dosing

Sodium Hydroxide (NaOH) is used for pH correction in water treatment processes. Our NaOH dosing solutions ensure precise pH control, which is critical for maintaining optimal water chemistry and preventing corrosion or scaling in your systems.



HCL Dosing:

Hydrochloric Acid (HCL) dosing is essential for adjusting pH levels in water treatment. At Swjal, we provide high-purity HCL for precise and safe pH correction, crucial for maintaining water system integrity and performance in various industrial applications.

From Global Brands



Sanitary Valves & Pumps



Diaphragm Valves:

Swjal's diaphragm valves are designed for precise flow control in sanitary applications, ensuring hygiene and reliability. Ideal for industries requiring sterile conditions, such as pharmaceuticals and food processing, offering robust performance and easy maintenance.



Zero Deadleg Valve:

Our zero deadleg valves are engineered to eliminate stagnant areas, reducing the risk of contamination in critical water systems. These valves are essential for maintaining highest standards of cleanliness and sterility in industries like biotechnology and pharmaceuticals.



Back Pressure Regulating

Swjal's back pressure regulating valves maintain consistent system pressure, ensuring optimal operation and safety. These valves are crucial for preventing pressure fluctuations and ensuring smooth and reliable performance in water treatment processes.



Pneumatic 3 Way Flow Diversion Valve:

Our pneumatic flow diversion valves offer precise flow control and redirection, making them ideal for complex process applications. These valves are designed for sanitary environments, ensuring efficient and contamination-free operation in industries like food and pharmaceuticals.

From Global Brands



Sanitary Valves & Pumps



Sanitary Ball Valve:

Swjal's sanitary ball valves provide reliable shutoff and control in hygienic applications. With a design focused on cleanliness and ease of use, these valves are perfect for industries requiring sterile conditions, ensuring consistent and contamination-free operations

Sanitary Butterfly Valve:

Our sanitary butterfly valves ensure smooth and efficient flow control with minimal pressure drop. These valves are designed for applications where hygiene is critical, offering easy operation and maintenance for industries like food, pharma, and cosmetics.



Pneumatic Angle Seated

Swjal's pneumatic angle seated valves deliver high-speed operation and tight sealing, essential for automated sanitary systems. These valves are perfect for industries requiring precise and reliable control in sterile environments, such as pharmaceuticals and biotechnology.



Steam Trap:

Our steam traps efficiently discharge condensate while retaining steam, ensuring energy efficiency and reliable operation in steam systems. Making essential for maintaining system performance and reducing energy costs in industries utilizing steam for sterilization.



Safety Valve / PRV:

Swjal's safety valves and pressure relief valves (PRV) protect your systems from overpressure, ensuring safe and reliable operation. These valves are critical for preventing equipment damage and ensuring compliance with safety regulations in high-pressure water and steam systems.



From Global Brands

FRETURE
EMISSION FREE PROCESS

CRANE

MASCON
Lead with Integrity ~ Innovate with Passion

AVCON®

SWISS
Precision Redefined

FORBES MARSHALL

CLIENTELE

SWJAL PROCESS PVT LTD.

Unit B - 1, Sagar Plaza, Vasai (E), Palghar 401 208