



TURN AROUND
ENGINEERING SOLUTION
FOR BETTER TOMORROW



About us

Established in the year of 2017, Turn Around Engineering Solution has become a young, dynamic and preeminent name in the sector of water and waste water treatment industry. In the field of water and waste water treatment industry and process engineering industry, we are providing eases of industrial instruments and chemicals commanding the vision of best deliverance of the products and solutions of the problems.

Mission

We are committed to and bound towards our clients with the capabilities and experience in providing the pioneering products and services that will lend the betterment of tomorrow to our society and for society's health.



Vision

To become an industry leader in providing sustainable and proven solutions to the water and waste water treatment Industry.



INDUSTRIES WE SERVE

Every product we use today requires massive amounts of water for production. On rudimentary level, the process of refining and producing raw materials such as metal, fuel, oil, wood, textile products, chemicals, paper, and plastic requires water.

The manufacturing process by which those raw materials are transported and transformed into consumable goods also requires large volumes of industrial water. Within a single manufacturing facility, industrial water may be used for production, sanitation or as a raw material in the product itself.

At TAES, we are offering water and waste water treatment chemicals and components. Our core expertise is providing the right water treatment components and chemicals to various industries



Water and Waste Water Treatment Industry

Turn Around Engineering Solution provides a full line of products to provide corrosion and deposit control in boilers, steam lines, condensate lines and associated equipment used in utilities, commercial and industrial facilities



Water for Pharmaceutical Industry

pharmaceutical and life sciences processes. As a raw material, water is used in processing, formulation and manufacturing various pharmaceutical products and active pharmaceutical ingredients (API)



Paper and Pulp Industry

Paper is a commodity product and it is still hard to imagine a world without it. Water is one of the key components of papermaking. Without water, the production of paper is unthinkable.



Water Treatment in Food and beverages Industry

Water is a crucial component of the food and beverage industry. It's used extensively in food processing industries, from cleaning raw materials to the incorporation of recipes. Quality water is essential to efficient processing and manufacturing.

METERING PUMP & DOSING SYSTEM

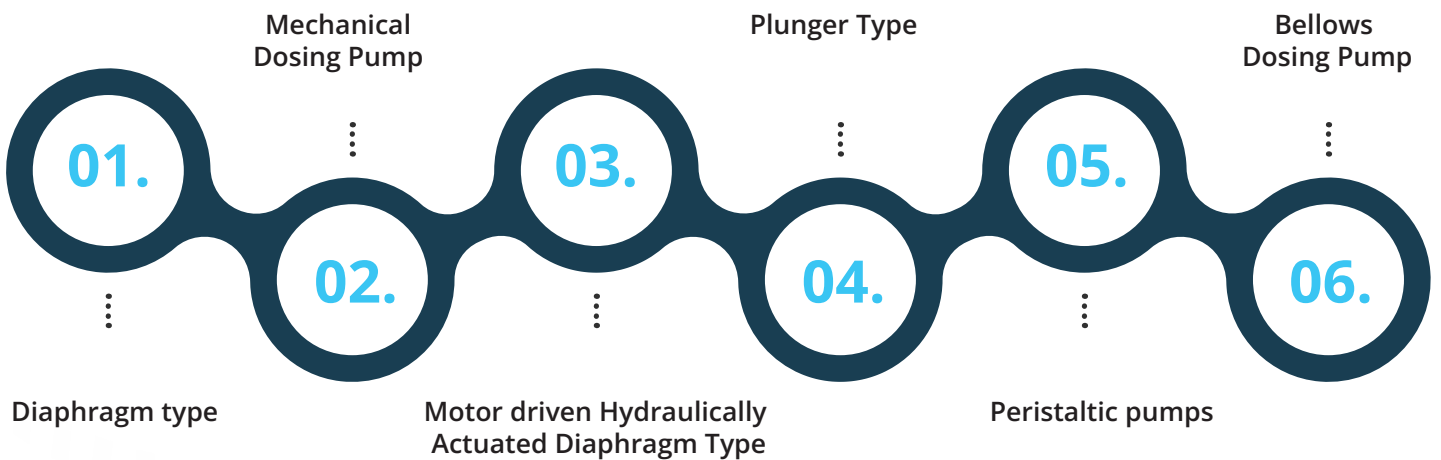
Maintaining a constant flow rate regardless of differential pressure or fluid viscosity.
Delivering a variable flow to maintain a system parameter (for example, pH). Injecting a discrete dose (typically required in batch processing).

Metering is required in many industries, including pharmaceuticals, water and waste treatment, food and beverage production, power generation, chemical processing, petrochemicals and oil and gas extraction.

A Metering pump or a Dosing System, which is a positive displacement pump or a system, is designed to inject a chemical or another substance into a flow of water, gas or steam. Dosing pumps, which are typically small, provide an extremely precise flow rate for maximum control.

Chemical Dosing in water treatment plays an important part in the process, TAES Offering the various types of metering pumps with having the precise dosing flow and pressure capacity.

Types of Metering Pump



BIOCIDES

A biocide is defined as a chemical substance or microorganism intended to destroy, deter, render harmless or exert a controlling effect on any harmful organism by chemical or biological means.

They are produced in liquid and powder forms, in ready-to-use formulations, or as concentrates, and are applied using a variety of techniques.

We are offering full range of biocides for Water treatment, Paint, Ink, Printing ink, construction chemical and Textile industries.

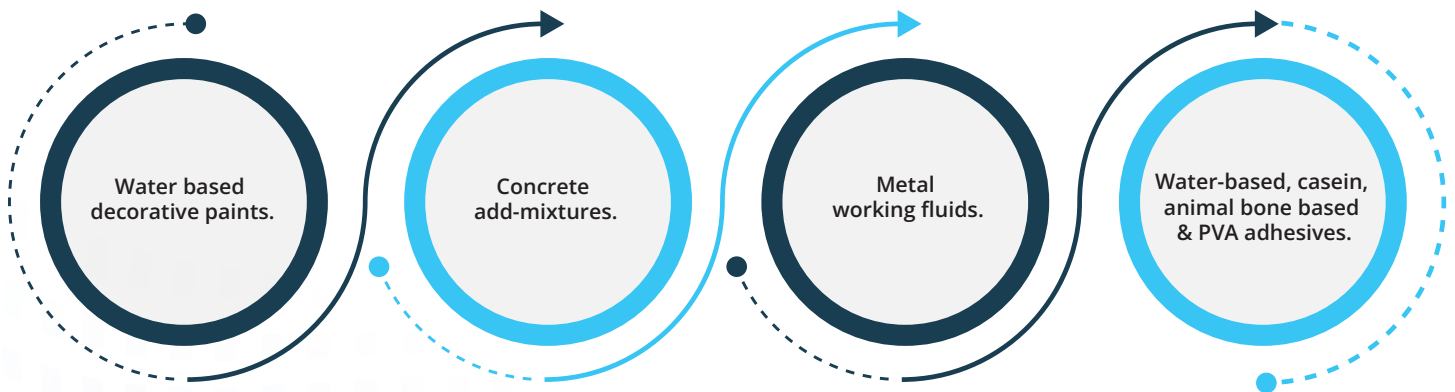
Clariant`s biocide range under the brand NIPACIDE® protects products during application, storage and transport against microbial contamination.

DIFFERENT TYPES OF BIOCIDES

In-can preservation

Dry-film preservation

APPLICATIONS



CLARIANT 

WATER TREATMENT CHEMICALS

A chemical treatment can be used to remove both organic and inorganic pollutants from water, while physical-chemical methods are designed to remove all types of contaminants from water, from organic to inorganic to biological.

The four main problem areas in industrial water treatment include scaling, corrosion, microbiological activity, and residual wastewater disposal.

For municipal or industrial wastewater treatment, we provide complete chemical solutions including boiler chemicals, cooling system chemicals, ETP chemicals, MEE plant chemicals, descaling chemicals & RO chemicals.

In order to create sustainable solutions for wastewater treatment, we offer a full range of water treatment chemicals, boiler chemicals, cooling system chemicals, ETP chemicals, MEE plant chemicals, descaling chemicals & RO plant chemicals.

- ▶ Anti Scalants
- ▶ Biocides
- ▶ Reverse Osmosis Chemicals
- ▶ Cleaning Chemicals
- ▶ Coagulants
- ▶ Flocculants
- ▶ Oxygen Scavengers



FILTER BAGS

Bag filters are used for removing relatively small particles from fluids that require clarification/filtration. As the suspension passes through, the particles settle in the bag. In most cases, bag filters are used in conjunction with a supporting vessel.

It is typically made from needle-punched nonwovens and is used as a depth filter. The volume of pores varies by 70–90%. Normally, filter bags are stitched along the edges.

Bag filters are similar to cartridge filters in their configurations and materials, their flow is inside-outside. The top of a bag filter is connected to a high-pressure inlet, and the sides and bottom are connected to an exit. Bags keep solids inside during operation, a cage (perforated basket) holds the bag in place. A filter's dirt-holding capacity is an important design parameter. A bag's dirt-holding capacity will vary based on its construction, whether it is mesh or felt, single, multilayer, or pleated.

The use of bag filters includes a wide range of liquid filtration applications, such as bulk chemicals, coolants, cleaners, paints, varnishes, waxes, and plastics.

Advantages

- ▶ High performance
- ▶ High flow rates
- ▶ Low pressure drop
- ▶ Broad chemical compatibility
- ▶ Positive sealing arrangement with choice of materials
- ▶ High dirt holding capacity
- ▶ High Temp. resistance

Specification

- ▶ **Size:** 4" x 10", 4" x 20", 7" x 16", 7" x 32"
- ▶ **Microns:** 1,5,10,25,50,100
- ▶ **Configuration:** Stitched, Welded
- ▶ **Media:** Polypropylene, Polyester, Nylon, Cotton
- ▶ **Collar Type:** PP, SS Ring, Rubber

Types of the filter bags

- ▶ Polyester/Polypropylene Filter Bag
- ▶ Nylon Filter Bags
- ▶ Liquid Filter Bags



INSTRUMENTS

TAES Offers water quality measuring Systems that can address sensing, measuring and controlling your plant with optimum solutions to realize stable plant control including the selection and application of plant equipment.

Analyzers are used to monitor process chemistry, including water quality, and to optimize and control the process. These measurements include pH, ORP, conductivity and resistivity, percentage concentration, and dissolved oxygen.

Our instruments fulfil the need of automating your water treatment plants and simplify plant operations. Our products include a complete range of instruments used to control and monitor the operations of plants.

We are providing complete proficiency across the entire range of Instruments such as,

- ▶ Liquid Analyzer Instruments
- ▶ Flow Meters
- ▶ Control Panels & Controllers Wtp Plants
- ▶ Rotameters
- ▶ Pressure Switch
- ▶ Level Switch
- ▶ Sdi Kit



MEMBRANE

An effective method for treating water is by using membranes in order to remove unwanted constituents from the water. A membrane is a barrier that allows certain substances to pass through while blocking others. Different types of membranes and processes are used to treat surface water, groundwater, and wastewater to produce drinking and industrial water.

The type of membrane used for treating water depends on the contaminants to be removed as well as the end-user's requirements.

As a complete water treatment membrane supplier, we have complete proficiency across a wide range of products, including,

DIFFERENT TYPES OF MEMBRANES

01

Reverse osmosis Membranes



02

Ultrafiltration Membranes



03

Nano-filtration Membranes



04

Process Membranes



RESINS

Ion-exchange resins are widely used in different separation, purification, and decontamination processes. The most common examples are water softening and water purification.

The Ion Exchange process removes soluble ionized contaminants such as hardness and alkalinity from water via a reversible ionic interchange between a solid phase (resin beads) and liquid phase (water).

Two main categories are cation and anion. Cation Ion Exchange resins include strong/weak cation, (H⁺ and Na⁺). Anion Ion Exchange resins include a strong/weak anion, such as OH⁻ and Cl⁻.

We are providing complete proficiency across the entire range of Ion Exchange Resins including,

01 Softening Resin

05 Fluoride removal resin

02 DE alkalization

06 Iron removal media

03 Demineralization

07 High hardness resin

04 Mixed bed polishing

 **ION EXCHANGE**
Refreshing the Planet



Purolite[®]

FILTER CARTRIDGES

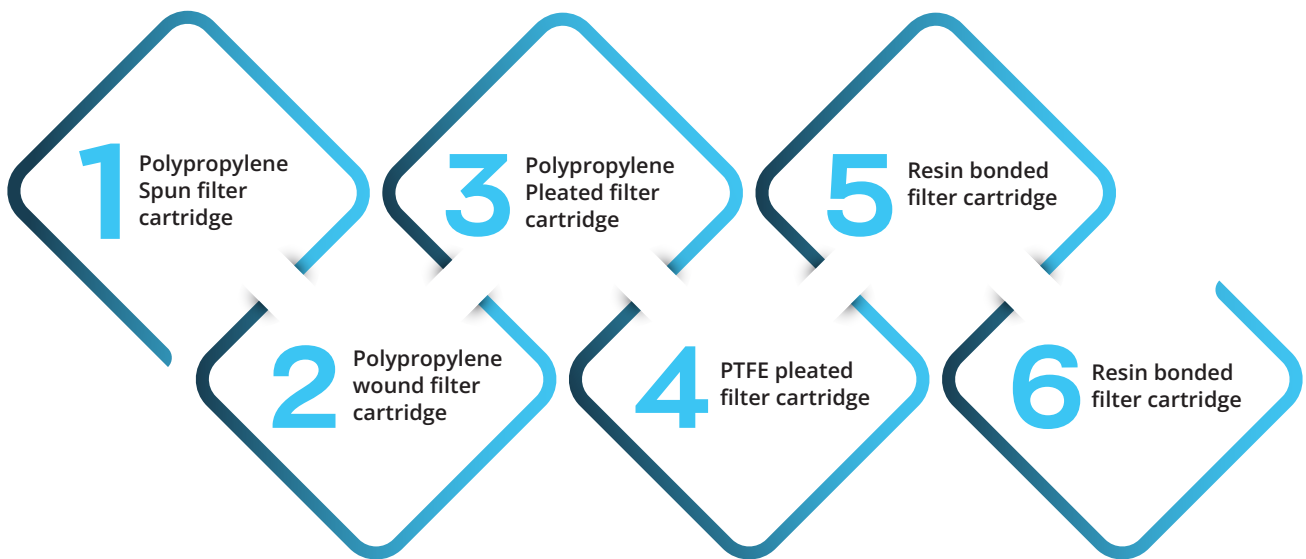
Cartridge filters are typically housed in a pressure vessel. Cartridge filters can be used either individually or as an array of cartridges in a vessel. Fluids usually flow from the outside of the filter to the inside.

Cartridge filters are defined as fabric or polymer-based filters designed primarily to remove particulate material from fluids. They are usually rigid or semi-rigid and manufactured by affixing the fabric or polymer to a central core. Cartridge filters are disposable and easily replaceable.

Cartridge filters can also be used as a pre-filter prior to other treatment processes.

Although each filter manufacturer's standards for source water turbidity may be slightly different from one another, all cartridge filter systems require a high quality of source water. Generally, the lower the turbidity of the source water the better the application for cartridge filters. As the source water turbidity increases the amount of water that can be filtered decreases.

DIFFERENT TYPES OF FILTER CARTRIDGE

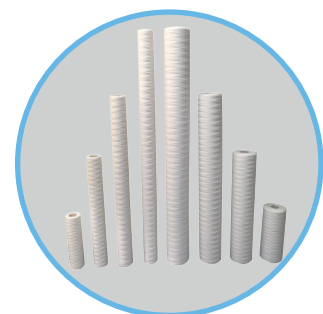
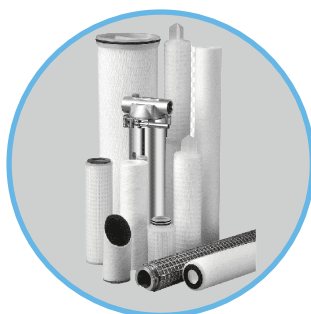


APPLICATIONS

01. Filtration of surface water or ground water under the influence of surface water.

02. Pre-filtration prior to subsequent treatment.

03. Solids removal



Our Clients

bulkMRO

SKNL
S. Kumars Nationwide Limited

Seaplast
BUILT TO LAST

B Bekaert

CEAT

AARTI INDUSTRIES LIMITED

KANSAI PAINT
NEROLAC

HOG™ The Specialist in Cancer Care
adding life to years

ENERGITEAM

par
TECHNO-HEAT PVT. LTD.
AN ISO 9001:2015 Certified Company

moglix

SAINT-GOBAIN

SAURER.
ACCOTEX | TEXPARTS | DAYTEX

SIGMA POLYCHEM
MAKING BONDS STRONGER

MAHARASHTRA SOLVENT EXTRACTION (P) LIMITED

And Many More...



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GET IN TOUCH



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