Polymer preparation- and dosing system type IBC
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Features

• Suitable for different kinds of dry products and liquid products
• 1 batch container as IBC made of plastic or optionally made of stainless steel V2A incl. baffle plate
• No „clumping“ by the use of an innovative mixing chamber
• Mixing water and polymer products carefully
• Easy operation via push buttons
• Controlling Siemens logo
• Fully automatic or manually operatable
• High-quality industrial components such as engine ball valves, etc.
• Extensive options and individual adaptation

Technical description and process

The waterprocesstec polymer preparation systems IBC were developed to allow a controlled dispersion of polyelectrolytes in water. The systems serve the recognition and treatment of solid and liquid polyelectrolytes regardless of the manufacturer. The concentration (dependent of the product) of the stock solution is ca. 0.5% - 1.0 weight%. The waterprocesstec polymer preparation systems are mainly designed for fully automatic operation with manual possibility anytime.

Through the water fast filling a water trap is introduced to the wetting of the agitators in the mixing tank. The level is measured continuously. Then the required quantity of polymer is metered by a dry material feeder. The concentration of this can also be stored in control.

Via the discharge screw the powder transport carried in the mixing head. Already here wetting with water take place. The early mixing prevented clumping on the water surface. An agitator is mixing the water with the polymer carefully until the maturation period has expired.
Options

For an optimal adaptation and integration into your process numerous options are available:

- Transfer or dosing pumps
- Stainless steel container as maturing tank or transfer buffer tank

There are numerous optional interfaces for integration into your process or connection to your process control system. You can communicate with our systems via Profibus or Ethernet. In the interfaces you will find all parameters of our system.

Furthermore, we are able to integrate your storage tank systems or equipment components in our touch panel and visualize this.

If your equipment does not have interfaces, a connection via analog inputs/outputs and binary signals is possible.

Application areas

The waterprocesstec polymer preparation and dosing systems are used in the treatment of municipal and industrial wastewater in sewage plants, the recycling of process and circuit water as well as the clarification of raw and surface water for the production of industrial and drinking water. Other applications (chemical industry, paper industry, power stations) are possible without doubts.

If you have any questions regarding your customer-specific solution, please do not hesitate to contact us.
**Volume size of batching tank**
IBC1000 gross 1 x 1000 liters

**Batch quantity (application- or stock solution)**
IBC1000 1000 liters/h with water supply of min. 3 m³/h

**Batch concentration and polymer amount (higher concentrations upon request)**
IBC1000 10 kg/h with 1% solution

**Water quality**
temperature +5°C...+45°C (other ranges upon request)

**Supply voltage and connected load**
IBC1000 3 x 400 VAC+N+PE, 3 x 16A

**Materials**
- Batching tank: IBC plastic tank
- Pipelines: stainless steel V2A
- Machine frames: stainless steel V2A
- Dry material feeder: stainless steel V2A
- Control cabinet: sheet steel painted

**Electrical components (if not otherwise requested)**
- Control SPS: Siemens
- Touch panel: promesstec TSP...
- Emergency-off relay: Pilz
- Control elements: Siemens
- Contactors: Siemens
- Motor protection switches: Siemens
- Terminals: Phoenix
- Safety switch: Schmersal
- Measurement: BD|SENSORS, Endress&Hauser, promesstec
- Motor ball valves: END
- Agitators: SEW-Motoren, rest own manufacturing facilities
- Pumps: Netzsch
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Dimensions

[Image of polymer preparation and dosing system type IBC with dimensions]