

# FLEXISAN™ MODULAR SPRAY SYSTEM

## SIMPLIFY SANITATION. SAVE TIME. CUT COSTS.

BETE works closely with customers on specialized applications to deliver effective, cost-saving spray solutions. In the food processing industry, we've listened carefully and understand the importance and challenges of sanitation, whether cleaning processing areas, conveyor belts, or other equipment.



### The Problem

Too often, sanitizing methods don't target the specific application. This results in long cleaning cycles, excessive water usage, and costly production downtime.

### The Solution

BETE's FlexiSan Modular Spraying System – designed for versatility, the spray system optimizes Open Plant Cleaning (OPC) and delivers effective, consistent cleaning for various applications, from everyday washdowns to tackling tough soils. Use our FlexiSan spraying systems to apply cleaning and sanitizing agents to a wide range of equipment, including conveyors, hoppers, bins, and mixers, as well as other critical process areas.

## THE FLEXISAN ADVANTAGE

- ✓ **Streamlined Sanitation** – Easily switch between rinse, clean, and sanitize steps for faster, more efficient washdowns
- ✓ **Portable & Easy-to-Use** – A rugged, stainless steel cart moves effortlessly between cleaning zones
- ✓ **Tough on Soils** – Handles everything from light residues to heavy build-up like syrups and coatings
- ✓ **Saves Water & Chemicals** – Precision spraying minimizes waste while maximizing effectiveness
- ✓ **Built-for-You** – Flexible options and automation features to fit your exact process needs

CLEAN.

RINSE.

SANITIZE.



# CONTACT BETE FOR RETROFITTING SOLUTIONS THAT OPTIMIZE EFFICIENCY & RELIABILITY



## FLEXISAN™ BASE SPRAY SYSTEM

The base spray system includes a durable, mobile cart with integrated chemical handling and at least one Clean-in-Place (CIP) spray header assembly. Engineered for simplicity and mobility, the cart connects directly to plant water and can deliver up to two chemicals, typically a cleaner and a sanitizer, through the spray header(s). Its portable design makes it easy for operators to move between cleaning zones and quickly connect to supply drops or CIP headers.

For light soils, standard plant water pressure (60–200 psi / 4–14 bar) is sufficient to loosen and dislodge contaminants. With dual holding tanks, the cart makes it easy to switch seamlessly between rinsing, cleaning, and sanitizing – streamlining the entire sanitation process.

## KEY SYSTEM COMPONENTS

### FLEXISAN RUGGED, STAINLESS STEEL PORTABLE CART

- **FRAME**
  - Stainless steel 1 ½" (38 mm) square tube
  - Heavy-duty greaseable casters with a locking function
- **PLUMBING**
  - Welded 304 stainless steel pipe header
  - Stainless steel manual supply valves for cleaner, sanitizer, and wash water
  - Durable, stainless steel pressure regulators (8-80 psi / 0.5–5.5 bar) provide stable inlet pressure to the blending pumps, with check valves on the delivery end for protection
  - Welded o-ring unions on piping header for easy maintenance of valves, blending pumps, and pressure regulator
- **BLENDING PUMPS & HOLDING TANKS**
  - Two blending pumps and chemical-resistant polymer tanks for sanitizer and commonly used cleaners
    - Standard blending ratios 50:1 down to 500:1 for use with concentrated cleaners and sanitizers
    - Maximum inlet pressure: 85 psi (6 bar)



### FLEXISAN CLEAN-IN-PLACE (CIP) SPRAY HEADERS

- **STANDARD SPRAY NOZZLES**
  - Welded base with replaceable nozzle tips
  - BETE NFD03945 Spray Nozzles in stainless steel
    - Spray pattern: 45° flat fan
    - Nominal flow rate per nozzle: 0.39 gpm @ 40 psi (1.53 l/min @ 3 bar), 1.37 gpm @ 500 psi (5.22 l/min @ 35 bar)
    - Nozzle base machined with a dovetail groove for easy maintenance and reassembly alignment



LEARN HOW THE LATEST SPRAY TECHNOLOGIES SAVE TIME, MONEY, AND RESOURCES



- **BASE PLUMBING & HEADER**

- 1" (25 mm) schedule 80 pipe
- Custom fit to your application
- Up to 10' (3 m) of high-pressure connection hose with a quick coupler for connecting to the FlexiSan portable cart
- Toolless, adjustable clamping uprights for height adjustment between 2" and 10" (51–254 mm)

## FLEXISAN MAX SPRAYING SYSTEM

For heavier soil levels that require hot water and higher pressure for fast, effective cleaning, such as chocolate coatings or heavy syrups, use our FlexiSan Max. Built upon the same components as our base FlexiSan system, the FlexiSan Max adds a pump package with quick mechanical and plumbing connections to the base cart unit, integrating it with the supply and delivery lines.

Delivering between 400 and 600 psi (28–41 bar) to the CIP spray bar, this additional pump system provides the impact needed to effectively and efficiently remove tough soils. The result is significantly shorter cleaning cycles – for conveyors, this can mean only a single rotation is required.

## KEY FEATURES AND SPECIFICATIONS OF THE PUMP PACKAGE

- **PUMP**

- Maximum operating pressure: 1000 psi (69 bar)
- Maximum flow rate: 20 gpm (75.7 l/min)
- Capable of providing up to 525 psi (36 bar) at 15 gpm (56.8 l/min)
- Maximum inlet pressure: 250 psi (17 bar)
- Includes pressure regulator with relief bypass
- Stainless steel pump head
- Motor/pump coupler/drive
- 15 hp (11.2 kW), 460/480VAC/3Phase Motor
- Factory mounting plate

- **PUMP CONTROL**

- 15 hp (11.2 kW) VFD motor drive with disconnect switch and enclosure mounted remote control panel
- NEMA 4X washdown-rated enclosure
  - Stainless steel
  - Trolley mounted
- 10' (3 m) 480VAC 3-phase power cord (customer to provide plug end)
- Wired, factory tested, and ready for use at delivery



**ACHIEVE RELIABILITY, SAFETY, & QUALITY IN YOUR FOOD & BEVERAGE PRODUCTS WITH OUR INNOVATIVE SPRAYING SYSTEM SOLUTIONS**



## LOOKING FOR FURTHER SYSTEM CUSTOMIZATION?

Inquire with one of our Spray Experts if you would like any of the following:

- **Controls and control integration**
  - Automated valves
  - Spray bar purge (compressed air)
  - Single button cleaning operation with adjustable timers
- **Fully integrated/automated, stationary, Clean-in-Place (CIP) systems**
- **FlexiSan cart add-on: handheld washdown wand with FDA-compliant hose connection**

## BETE: YOUR SOURCE FOR COMPLETE SPRAYING SYSTEM SOLUTIONS

Leveraging over 75 years of experience with industrial nozzle design, advanced engineering, and manufacturing resources, BETE has grown far beyond spray nozzles. Our unmatched understanding of spray performance and fluid dynamics allows us to design, engineer, and deliver complete spray systems tailored to your exact specifications.

Whether you need to:

- **Upgrade an existing spray system for improved performance and reliability, or**
- **Develop a new solution to meet evolving process needs,**

BETE has the in-house capabilities to make it happen. Our teams work seamlessly together to ensure you receive the highest-quality spray technology – helping you achieve:

- **Maximum process efficiency**
- **Safer, more consistent products**
- **Reliable operations**



**FROM NOZZLES TO COMPLETE SYSTEMS, BETE IS YOUR TRUSTED PARTNER FOR ALL SPRAYING CHALLENGES.**



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