

## STANDARD AND CUSTOM SPRAYS

Precision fabricated, Electrol Specialties' stainless steel and Hastelloy CIP spray devices are designed to clean interior surfaces of vertical and horizontal storage tanks and process vessels.

These **fixed-position spray devices** can also be applied to clean all surfaces of hoppers, chutes, ductwork, blenders, dryers, conveyors, and ancillary equipment that is properly designed for CIP cleaning.

Computer aided design and manufacturing guarantees optimum performance through quality fabrication based on properly designed spray patterns.

A complete line of standard 1 3/4-inch, 2 1/2-inch, and 4-inch diameter spray balls are available for new and retrofit installation applications.



### **PRODUCT VALIDATION**

ESC provides complete material traceability data, weld maps, weld logs, and hardware/software factory acceptance test (FAT) for your validation turnover documentation package. Additional validation assistance is available.

Custom and Standard Spray Devices complement the broad ESC product line of CIP systems, transfer panels, spray devices and custom process equipment.

### **STANDARD AND CUSTOM SPRAY FEATURES:**

- Polished certified Type 316L steel and Hastelloy C-22 construction.
- Material and weld validation documents available.
- Slip-joint construction for ease of inspection and particulate removal, if necessary.
- Easily installed and removed.
- No moving parts to wear out and distort spray patterns.
- Hygienic self-cleaning and self-draining design, which allows spray devices to be left in place in product-contact zones.

- Specifically shaped to allow development of various standard and custom spray patterns.
- Flow ranges from 10 gpm (40 LPM) to 80 gpm (300 LPM).
- Permanently identified with model and customer identification numbers. With corresponding computer design data archive for accurate reproduction.

### **OPTIONAL FEATURES:**

- On-site Riboflavin Test field service.
- On-site functional operation evaluation and troubleshooting.
- Custom spray design for specialized process equipment.

For more information visit our Web site at [www.esc4cip.com](http://www.esc4cip.com)

**ESC**  
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## **ESB1—Double 4-inch Spray Assembly**

Designed to clean totally enclosed horizontal tanks of any diameter and up to 16 ft. in length, and vertical tanks up to 12 ft. in diameter or tanks with vertical shaft agitators. Consists of two 4-inch diameter spray balls with 1½-inch slip joint connections and tee-type supply tube. Total solution flow 80 gpm at 25 psi supply pressure.

## **ESB2—4-inch Spray Ball**

4-inch spray ball for cleaning totally enclosed horizontal tanks and vertical vats not exceeding 10 ft. in diameter for vertical tanks or 12 ft. in length for horizontal cylindrical vessels. Slip joint connection to supply tube for inspection purposes. Solution flow 40 or 80 gpm at 25 psi supply pressure.

## **ESB3—2½-inch Spray Ball**

2½ -inch diameter spray ball with welded slip joint and stainless steel or hastelloy pin. Extensively used to clean cycle collectors, evaporator separators and vapor lines, dryer ductwork, and conveyors. Available for installation on vertical supply tubes to produce top, bottom, or total coverage. Standard flow rates of 20, 30 and 40 gpm at 25 psi supply pressure.

## **ESB4— 1¾-inch Spray Ball**

1¾-inch diameter spray ball designed especially for existing or new tanks with a 2-inch diameter spray supply nozzle. Standard flow rates of 10, 15 and 20 gpm at 25 psi supply pressure.

## **EST1 and EST2 — Spray Supply Tubes**

1½-inch and 1-inch spray supply tubes are available with your required vessel and supply line connections.

## **ESB1—1½ -inch Bubble Spray**

Bubble spray designed to clean ductwork conveyor belts and screw conveyors. Custom-designed drilling assures cleaning effectiveness. 1½-inch size tri-clamp installation and supply connections. Special tri-clamp tube adapter (ETA-2S) available for welding in place for spray installation.

## **Custom Design**

Custom designed and drilled sprays available. Call us for your special applications.



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