Resin Trap

Product Coding
P4401010XX

Introduction

Resin traps for anion resin filters are protective inline devices designed to prevent anion exchange resin beads from escaping the filtration vessel and entering downstream equipment.

During operation, anion resin beads may migrate due to underdrain failure, backwash expansion, resin swelling, air scour, osmotic shock, or resin degradation.

If released into the pipeline, these beads can cause blockages, fouling, pump damage, valve malfunction, and severe membrane contamination. A resin trap is installed on the outlet line of an anion filter, polisher, or mixed bed system.

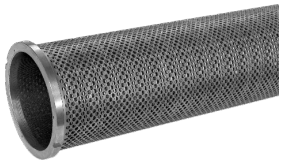
It incorporates a stainless steel V-Wire screen (or perforated plate) engineered with a slot width smaller than the anion resin bead diameter (typically 0.4 to 0.8 mm). This ensures 100% capture of escaping resin while maintaining smooth hydraulic flow and minimal pressure loss.

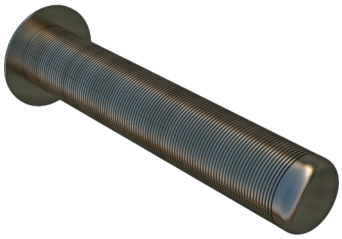
Features

- Protection of sensitive downstream equipment like membranes, pumps, valves, or heat exchangers
- Low Pressure Drop
- Stainless steel grades compatible with sodium hydroxide, sodium hypochlorite, and high-pH anion regeneration solutions.
- Detection of early signs of internal damage in ion exchange systems
- Decrease of maintenance costs and extends equipment lifespan
- Installed with body and housing

Applications

- Backwash lines of ion exchange and carbon systems
- Water treatment and softening
- Demineralization and de-ionization units
- Condensate polishing units
- Boiler feedwater and condensate polishers using anion resin
- Protection of turbines, pre-heaters, and ion exchange beds
- Industrial and power plant water treatment
- Activated carbon filter and multimedia filters





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