

BOC EDWARDS SEMCO CORPORATION INCREASES SAFETY AND REDUCES SPILLAGE IN SMARTCART CHEMICAL MANAGEMENT SYSTEM

“It provides a safe and easy means to connect and disconnect for our customers. We have good reports from the chemical technicians who are operating and maintaining the equipment. They really like the push-button, one-hand operation.”

— Kenneth A. Johnson,
Director of Product Technology
at Semco

OPPORTUNITY

BOC Edwards Semco Corporation, a California-based OEM of chemical management systems for the semiconductor and pharmaceutical industries, was looking for a robust, intuitive connection device for their SmartCart chemical transport system. The SmartCart is used for management of aggressive chemicals, including sulfuric acid, hydrofluoric acid, hydrogen peroxide, and ionized water. These chemicals are extremely dangerous if not handled correctly.



SOLUTION

CPC suggested its PTFE ChemQuik[®] non-spill quick disconnect coupling. The coupling features a push-button thumb latch, which allowed for one-handed quick disconnects from the chemical cart and reconnects to the process tool. It can also be disconnected under pressure with no spillage, unlike traditional poppet-style designs, which can spill a significant amount when disconnected.

In addition, chemicals and high purity process fluids can be contaminated by the metallic springs in the flow path of ordinary couplings, or the lubricants that are used for seal lubrication. The ChemQuik coupling uses no lubricants, and the springs, which are hermetically encapsulated in fluoropolymer plastic, are located outside the flow path, away from corrosive and ultra pure fluids, eliminating the expensive risk of contamination.

To further enhance safety, CPC added a unique, rugged keying system to the ChemQuik couplings it provided for Semco, which helped prevent accidental line misconnections.

RESULTS

With the integration of CPC's non-spill, quick disconnect couplings, Semco was able to offer its customers a chemical management system that reduced spillage and contamination, and was safer and easier to use.

COLDER PRODUCTS COMPANY
U.S.A.

PHONE +1 651-645-0091
FAX +1 651-645-5404
TOLL FREE 800-444-2474

COLDER PRODUCTS COMPANY GMBH
Germany

PHONE +49-6026-9973-0
FAX +49-6026-9973-173

COLDER PRODUCTS COMPANY LIMITED
Hong Kong

PHONE +852-2987-5272
FAX +852-2987-2509