

CURRENT SOLUTIONS

Connecting tubes and hoses to bulkheads can be a time-consuming part of installing, cleaning, moving, or replacing tanks, piping, and other manufacturing equipment. Common sanitary connections to a tank involve handling multiple components in-line with a threaded or permanently attached connection to the tank. Not only does this complicate the assembly, but it also increases risk of contamination before installation in the bulkhead or between lines. In a wide variety of settings, a connector that could reduce the installation, removal, and cleaning times as well as provide a cleaner and more reliable seal would save time, money, and the complication involved in many of today's standard procedures. However, there is no product on the market that offers a quick-connect method of attachment to a bulkhead-like body.

DESCRIPTION AND BENEFITS

Aptus fittings were developed in a bioengineering lab around the ideology of simplifying the installation, changing, and cleaning of connections. Our solution is a single-piece quick-action fitting that installs with a simple push and locks on instantly. Since the connection is not threaded, it eliminates the need for traditional tape sealing methods. We have created a solution available in many sizes, materials, and connection types that provides the following benefits:

- Patented technology and available for licensing (pat #8,840,150)
- Allows the user to quickly connect or disconnect a tube to a bulkhead or pipe
- Reduces cleaning and reconnection times (see graph)
- Maintains a reliable seal and connection that won't accidentally disconnect
- Decreases the risk of contamination in sanitary settings
- Is compact and fully functional & installable in tight spaces

Allows rotation of connecting tube

This invention was created for applications where sterility is essential, but is applicable to many different areas of manufacturing, product transport, and research in areas such as medical/sanitary, aviation, and automotive/industrial fields. Utilization of our patented quick-connect fitting would bring much-needed savings and overall improvement in medical research laboratories, food & beverage handling facilities, and automotive & industrial centers across the nation and all over the world.

