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## CUSTOM CONNECTOR FOR SINGLE PATIENT DISPOSABLE SET

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The disclosed invention provides a connector for a patient disposable set used in a medical fluid delivery system.

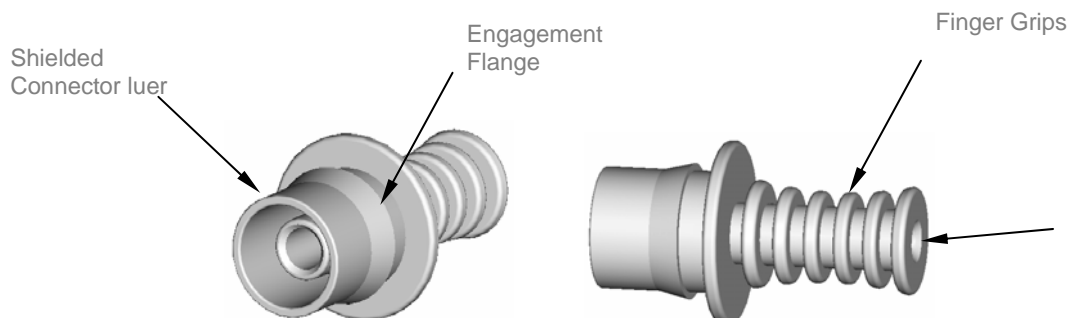
### Specification

The connector of this invention is for a single patient disposable set (SPDS). The connector is for medical fluid delivery systems that may require a connection method to ensure that the patient disposable set that is used with the system will:

- Provide a method to differentiate a system path from a patient path by allowing the connector to mate with the system and not with a catheter.
- Provide features that are desirable to the clinicians, including ease of use or quick connection/disconnection.
- Provide connection that is designed for withstanding the medical fluid delivery system's high fluid pressures by preventing unwanted disconnection.

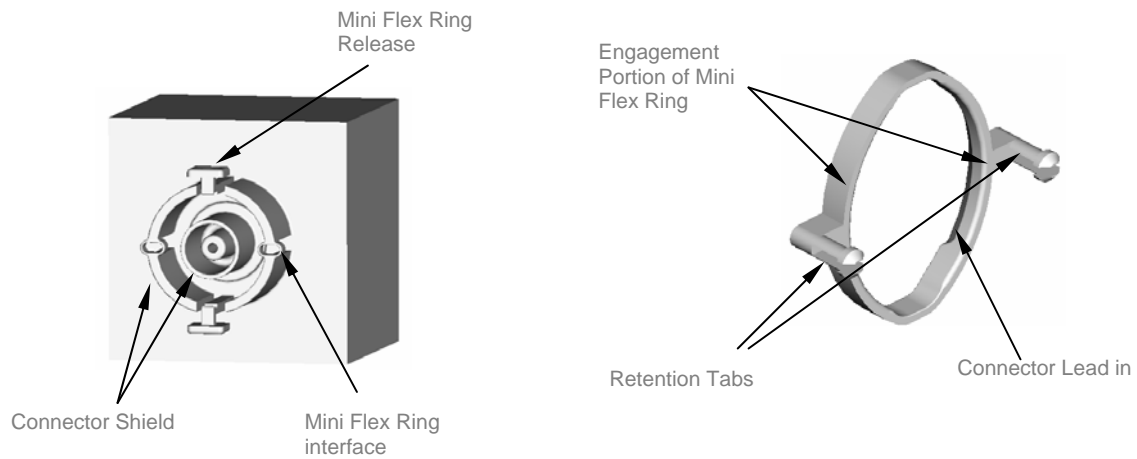
The one side of the connector that mates with the SPDS has the following features:

- Engagement flange that is not orientation specific to a mating connector of the fluid delivery system
- Ergonomic grips for easy insertion and removal
- Shielded connection to minimize contamination due to handling
- Tubing bonding port

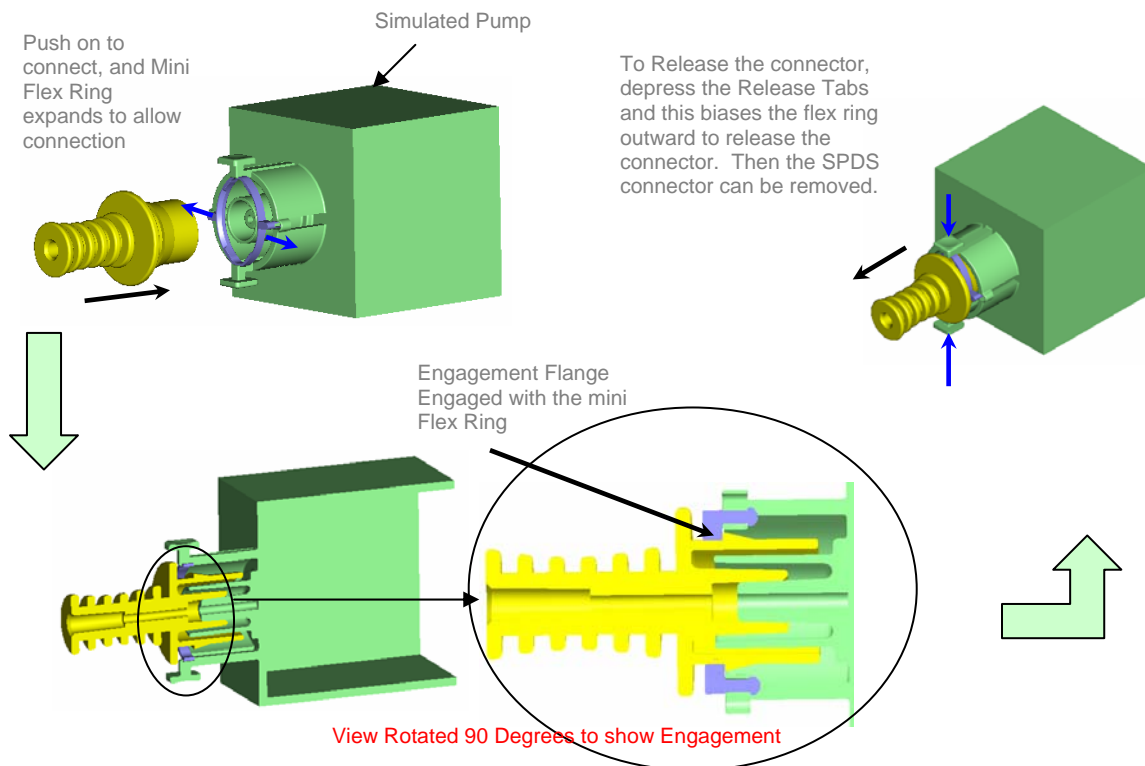


The other side of the connector that mates with the fluid delivery system has the following features:

- Two piece design incorporating a mini flex ring and release mechanism
- Shielded connection to minimize contamination
- Simple squeeze to open the mini-flex ring that releases the connector from the fluid delivery systems.



## Description of Use:



The benefits and advantages of the connector of the present invention include:

- **Sanitary and Reduced Cross-Contamination** – Shielded connection between the SPDS and the fluid delivery system will reduce potential for cross-contamination
- **Ergonomic** - Single-motion installation process, for example pinch and pull to remove the connection will minimize the time
- **Multi-Use Durability** – Does not require sliding tapered contact surfaces to assure fluid seal, therefore particulate generation is minimized with no sliding contact
- **Secure connection** – Once installed, the connector cannot be pulled off accidentally, for example, the connector must be twisted to be removed
- **Intuitive** – The mini flex ring in the connector must be pressed to install and is biased inward to remove
- **Two Pieces** – The connector requires only two injection molded components