LIQUID TRANSFER SYSTEM

The SART System™ is a smart connecting system that allows safe liquid transfer across a wall between two areas with different containment classifications.

The SART System™ was developed by Aseptic Technologies to allow safe and easy transfer of liquid products across the wall between two areas with different containment classifications.

The SART System™ is suitable for aseptic transfer, but also for safe transfer to highly contaminated environments.

The SART System™ can be used either to transfer product from traditional vessels or as part of a fully disposable fluid handling system.

Concept & Process steps

The SART System™ is based on the Alpha-Beta concept, and is made of a Port and a Connector Device.

Case of aseptic transfer

The Connector Device (1) is connected to the bulk container.

The Device is introduced and locked into the external Port mounted on the wall between the ISO8 and ISO5 areas.

From the ISO5 chamber, the Connector cover is clamped within the internal Port (2), and then the internal Port is open by rotation.

The Connector cover being enclosed within the internal Port (3), the connecting tube is uncovered in the ISO5 chamber.

Aseptic connection is made to the connecting tube (4) in the ISO5 chamber.

Liquid transfer can start immediately.
Key advantages
- Integrity: no sterility or toxicity breach; ensures grade A continuity for aseptic processes.
- Fast operation: aseptic connection is performed in few seconds.
- Multiple uses: the same Connector Device affords up to 5 connections / disconnections.
- Safety: internal Port cannot be open without Connector Device in place.
- Quality: 100% air leak test of the Connector Device.

The System’ components
- Connector Port, made of an external Port and an internal Port.
- Disposable Connector Device, sterilized by autoclave or by gamma-irradiation.

Connector Port

Materials

| External Port | Stainless steel AISI 316L |
| Internal Port | Stainless steel AISI 316L |

Dimensions

| External Port | Diameter: 150 mm |
| Internal Port | Thickness: 8 mm |
| Internal Port | Length with straight arm: 242 mm |
| Internal Port | Radius when arm claimed: 153 mm |

Connector Device

Validated for up to 5 openings / closings.

Supplied non-sterile or sterilized by gamma-irradiation. Can be autoclaved.

Tube connection:
- ¾” house bard connection on external side;
- ½” to ¾” tube connection on inner side.

Materials

| Body & Cover | External and contact parts made of PBT Celanex grade 2402. Animal free. |
| Body & Cover | Size of assembled Connector Device: |

Dimensions

| Body & Cover | Length: 72 mm |
| Body & Cover | Diameter: 55 mm |

(1) Exclusive worldwide distribution by Sartorius Stedim Biotech under brand name Gamma ATD™

More information available on www.aseptictech.com
Aseptic Technologies S.A. reserves the right to make any changes to the described devices and characteristics without notice.