



Life Sciences

USD 2325a

Kleenpak™ HT Sterile Connector

For convenient and secure sterile
connection of flexible tubing



AllegroSystems
The Single-Use Solution

Filtration. Separation. Solution.SM

For Convenient and Secure Sterile Connection of Flexible Tubing

Description

The disposable Kleenpak sterile connector allows for the dry connection of two separate fluid pathways, while maintaining the sterile integrity of both. The connector consists of a male and a female connector, each covered by a vented peel-away strip that protects the port and maintains the sterility of the sterile fluid pathway. Different connector options are available to allow for the connection of 15.8 mm ($\frac{5}{8}$ in.), 13 mm ($\frac{1}{2}$ in.), 9.6 mm ($\frac{3}{8}$ in.), or 6 mm ($\frac{1}{4}$ in.) nominal tubing. Kleenpak sterile connectors can either be autoclaved up to 130 °C or Gamma sterilized.



Applications

- ▶ Transfer of inoculums to reactors
- ▶ Sampling during fermentation or cell culture
- ▶ Connection of small sterile equipment to large equipment (e.g. bioreactors)
- ▶ Handling of bulk material in a non sterile environment
- ▶ Connection from tank to filling line
- ▶ Connection to a disposable system
- ▶ Probe insertion into biocontainer

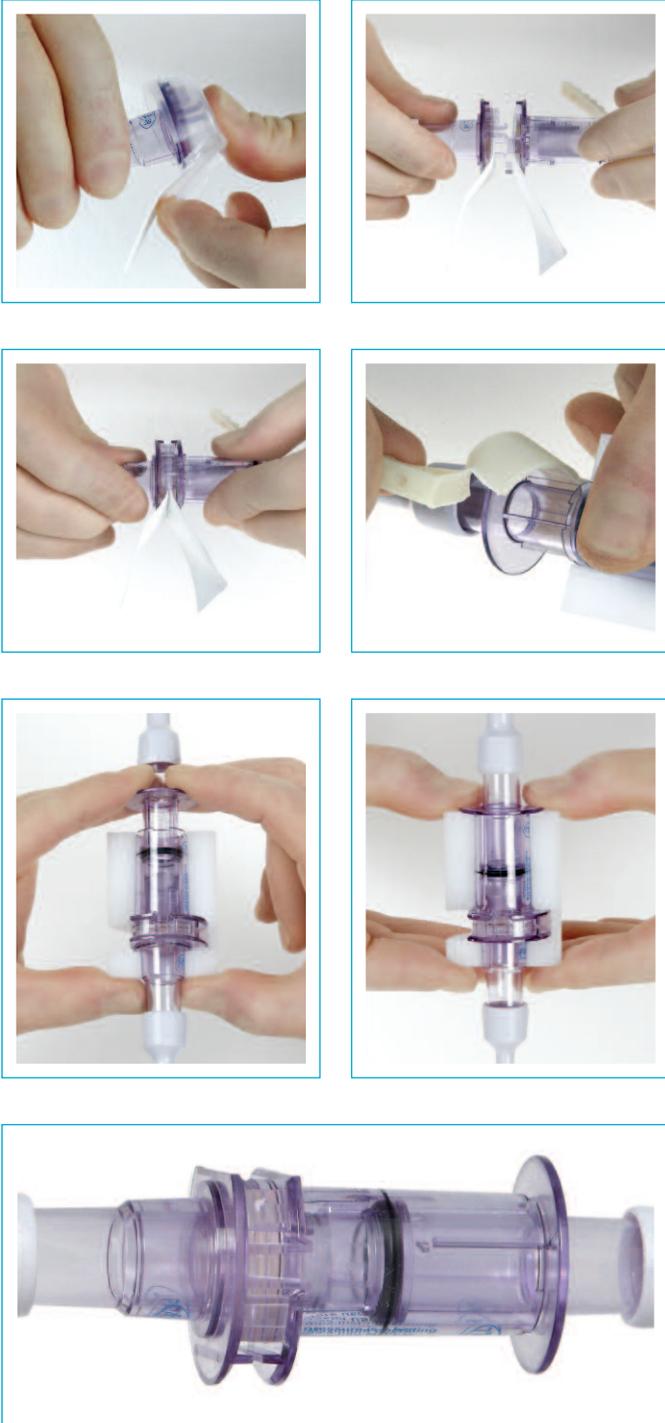
Benefits

- ▶ No capital equipment required
- ▶ Connection is made in seconds
- ▶ Connector can be autoclaved or Gamma sterilized
- ▶ Easy to make connection – even in cramped environments
- ▶ Maintains a sterile fluid pathway upon activation of device
- ▶ Peel-away strip maintains sterility until ready to use
- ▶ Vented to allow steam penetration and to prevent tubing collapse after autoclaving
- ▶ Shape coding ensures proper alignment
- ▶ Locking mechanism prevents incorrect assembly
- ▶ Device makes audible click when engaged
- ▶ Permanent connection for security – cannot be reopened

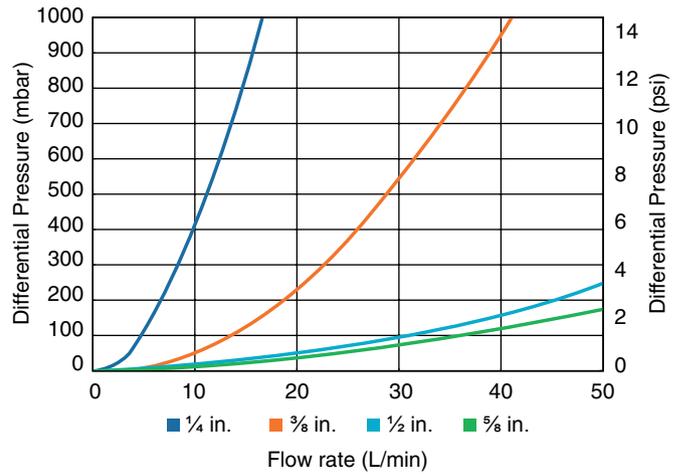
Quality Standards

- ▶ Manufactured under clean conditions in a controlled environment
- ▶ Manufactured under a Quality Management System certified to ISO 9001
- ▶ Supplied with a Certificate of Test confirming the quality standards and quality control tests performed by Pall (including endotoxin USP <85> and particulate tests)
- ▶ Validation tests include
 - Burst
 - Creep-rupture
 - Shelf-life
 - Absence of BPA (Bisphenol-A)
 - Bacterial spore challenge (“soiling”) test
 - Tensile strength
 - Aerosol challenge
 - Closure integrity
 - Extractables
 - Autoclave
 - Water flow characteristics
- ▶ The fluid path materials of construction meet all regulatory requirements for:
 - Biological Reactivity Tests *in vivo* for Class VI 121°C Plastics, USP <88>
 - USP Physicochemical Tests for Plastics, USP <661>

Technical Specifications



Typical Liquid Flow vs. Differential Pressure



Materials of Construction

Connector body	Polycarbonate
Rubber grommets	Thermoplastic elastomer
Plunger	Polycarbonate
Adaptors	Polycarbonate with TiO ₂
O-ring	Internally lubricated ethylene propylene
Protective cap	Polypropylene
Peel-away strip	Hydrophobic polyethersulfone
Anti-actuation ring	Thermoplastic elastomer

Aqueous Extractables (NVR)

Water at 20 – 25 °C after autoclaving at 130 °C	Typically < 1 mg
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Sterilization Methods

Consult with Pall Corporation on sterilization methods

Gamma irradiation	Maximum 50 kGy
Autoclave	75 minutes at 130 °C

Operating Conditions

Maximum operating pressure and temperature	3 bar at 40 °C
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Technical Specifications / Ordering Information

Dimensions (Nominal)

	6 mm (¼ in.) Hose Barb	9.6 mm (⅜ in.) Hose Barb	13 mm (½ in.) Hose Barb	15.8 mm (⅝ in.) Hose Barb
Male	KPCHT02M7	KPCHT02M10	KPCHT02M6	KPCHT02M11
Female	KPCHT02F7	KPCHT02F10	KPCHT02F6	KPCHT02F11
Internal diameter	5.5 mm (0.22 in.)	8.2 mm (0.32 in.)	12.2 mm (0.48 in.)	13.8 mm (0.54 in.)
Length when actuated	173 mm (6.8 in.)	173 mm (6.8 in.)	123 mm (4.8 in.)	173 mm (6.8 in.)
Female connector length with cap	80 mm (3.2 in.)	80 mm (3.2 in.)	55 mm (2.17 in.)	83 mm (3.27 in.)
Maximum diameter of female connector	38 mm (1.48 in.)	38 mm (1.48 in.)	38 mm (1.48 in.)	38 mm (1.48 in.)
Male connector length with cap	125 mm (4.92 in.)	125 mm (4.92 in.)	100 mm (3.94 in.)	128 mm (5.04 in.)
Maximum diameter of male connector	38 mm (1.48 in.)	38 mm (1.48 in.)	38 mm (1.48 in.)	38 mm (1.48 in.)

Specifications and availability: The information provided is a guide to the part number structure and possible options. Product availability may be subject to change without notice. All specifications are nominal.

Ordering Information

Part Number	Description	Quantity
KPCHT02F6	Female connector with 13 mm (½ in.) hose barb	25 per box, double bagged
KPCHT02M6	Male connector with 13 mm (½ in.) hose barb	25 per box, double bagged
KPCHT02F7	Female connector with 6 mm (¼ in.) hose barb	25 per box, double bagged
KPCHT02M7	Male connector with 6 mm (¼ in.) hose barb	25 per box, double bagged
KPCHT02F10	Female connector with 9.6 mm (⅜ in.) hose barb	25 per box, double bagged
KPCHT02M10	Male connector with 9.6 mm (⅜ in.) hose barb	25 per box, double bagged
KPCHT02F11	Female connector with 15.8 mm (⅝ in.) hose barb	25 per box, double bagged
KPCHT02M11	Male connector with 15.8 mm (⅝ in.) hose barb	25 per box, double bagged
KPCAID01A	Assembly Aid	1 per box

Warning: This product is not sold sterile. For use in making sterile connections, each connector must be fitted to a closed single-use assembly that has been subjected to a validated sterilizing process.



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The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

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