

Optimum Growth® Transfer Caps

Fast Aseptic Sterile Transfer of Fluids for Bioprocess from Flasks to Bags or Bioreactors

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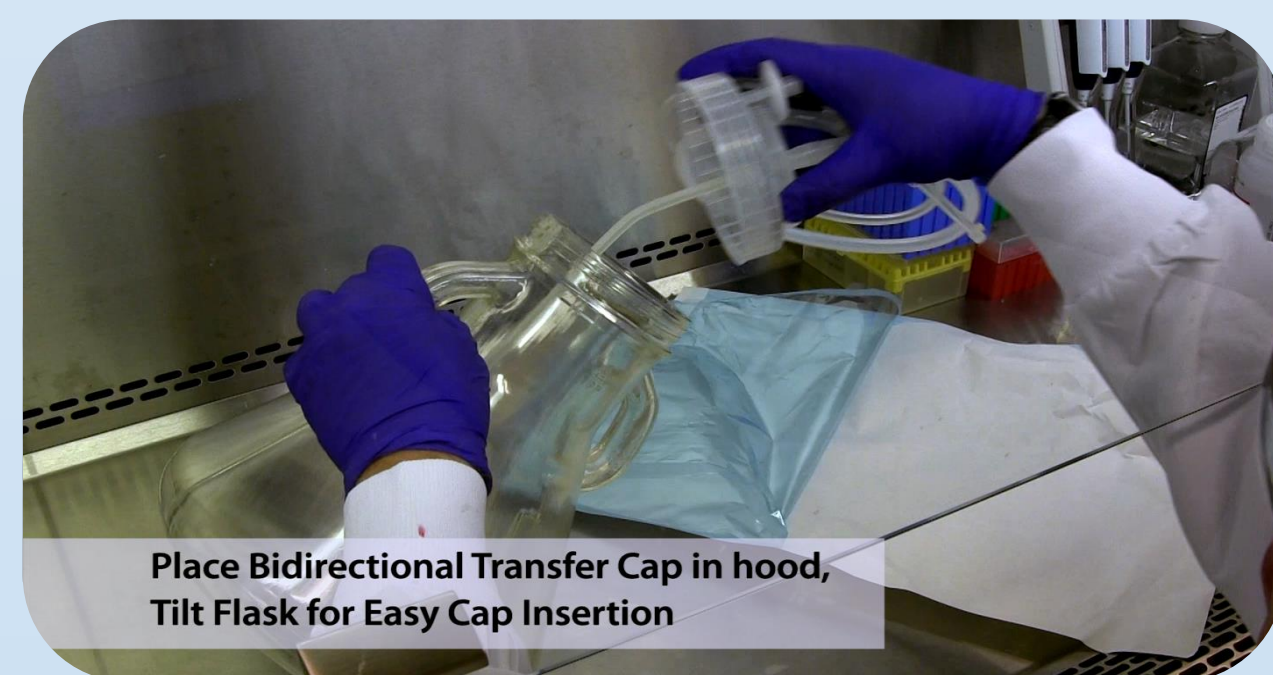
Optimum Growth™ Transfer Caps (patented) from Thomson Instrument Company when used with the Optimum Growth™ Flasks allows your culture flask to double as your transfer flask, minimizing vessels. The Transfer Cap enables aseptic transfer of cells to your scale up vessel (Cell Bag or Bioreactor) inside or outside of the hood.

The Optimum Growth™ Transfer Cap system can use either gravity or pumping to facilitate transfer. The Inversion Caps are gravity powered and eliminate the need for pumping. Gravity transfer is much gentler on the cells and maintains higher culture viability than when cells are pumped. Flow rates for the 7/16" connection are on average 1L/min, while for the 1/4" connection the flow is around 0.5L/min. The Bidirectional Caps have a down-stem and require a peristaltic pump. This allows for more accurate control when transferring to multiple vessels. It enables media to be pumped into the flasks from a bulk source.

Transfer caps can be quick connected or tube fused depending on the caps used. Transfer Caps are compatible with all culture bag systems and bioreactors.

The addition of the down stem tubing to the Optimum Growth™ Transfer Cap System allows for the Optimum Growth™ Flasks to be used with a peristaltic pump. This design enables very precise control of the volume transferred to one or many vessels for inoculation from a single seed culture. The Pump Transfer Cap is bidirectional, so liquid can be pumped both in and out of the Optimum Growth™ Flasks.

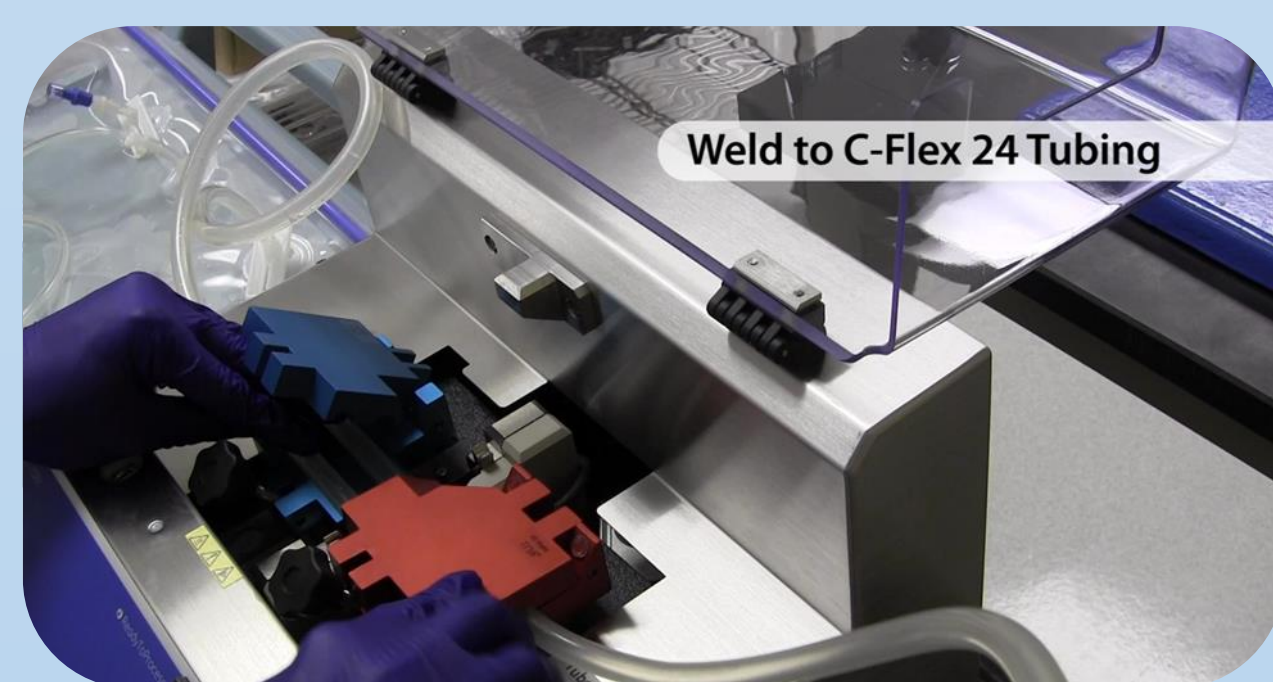
Pump Transfer



Place Bidirectional Transfer Cap in hood, Tilt Flask for Easy Cap Insertion
Step 1. Remove vent cap and replace with the Transfer Cap.



Step 2. Check that the Transfer Cap is tight.



Weld to C-Flex 24 Tubing
Step 3. Weld the Transfer Cap tubing to C-Flex tubing.



Step 5. To transfer, simply thread tubing through a pump.

**Currently Available
For 1.6L & 5L
Optimum Growth™ Flasks**



Inversion Transfer



Step 1. Remove vent cap and replace with the Transfer Cap.



Make Sure to Tighten Cap
Step 2. Check that the Transfer Cap is tight.



Step 3. Connect Quick Connect or Tube Fuse to Cell Bag or Bioreactor.

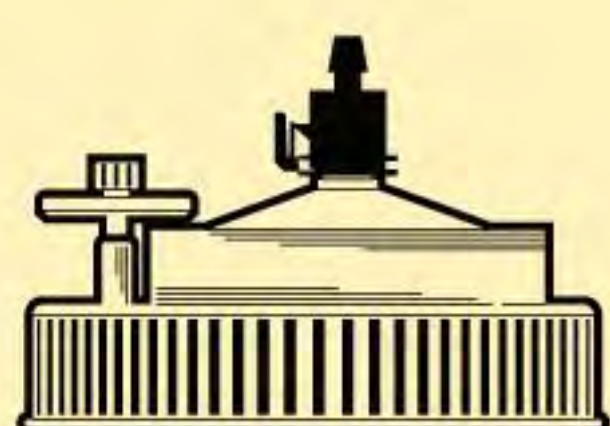


Step 5. To transfer, simply flip the Optimum Growth Flask over.

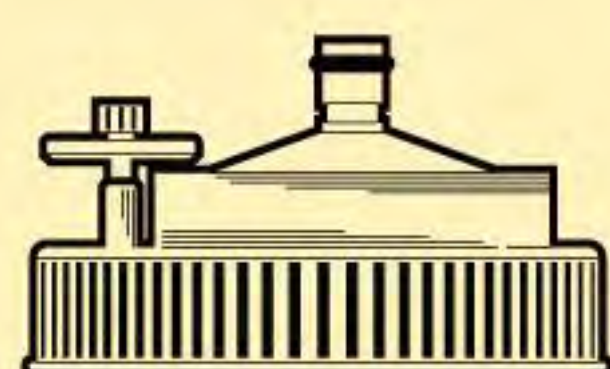
COMING SOON

Transfer Caps for
125mL, 250mL & 500mL

INVERSION CAPS



931594
Inversion Transfer Cap for Optimum Growth™ 5L Flask
1/4" Male Connection - Sterile



931596
Inversion Transfer Cap for Optimum Growth™ 5L Flask
7/16" Male Connection - Sterile

931706
Inversion Transfer Cap for Optimum Growth™ 1.6L Flask
7/16" Male Connection - Sterile



931595
Inversion Transfer Cap for Optimum Growth™ 5L Flask
2' Tubing welded to 1/4" C-Flex 16 - Sterile

931705
Inversion Transfer Cap for Optimum Growth™ 1.6L Flask
2' Tubing welded to 1/4" C-Flex 16 - Sterile



931598
Inversion Transfer Cap for Optimum Growth™ 5L Flask
2' Tubing welded to 7/16" C-Flex 24 - Sterile

931708
Inversion Transfer Cap for Optimum Growth™ 1.6L Flask
2' Tubing welded to 7/16" C-Flex 24 - Sterile



931607
Ring Only for Inverting
Optimum Growth™ 5L Flask
(requires a 22" stand)

931700
Ring Only for Inverting
Optimum Growth™ 1.6L Flask
(requires a 22" stand)



931606
Stand with Ring for Inverting
Optimum Growth™ 1.6L & 5L Flask
(All Inversion Caps Require Ring & Stand)



931614
Bidirectional Transfer Cap for Optimum Growth™ 5L Flask for
Peristaltic Pump, 2' tubing welded to 1/4" C-Flex 16 - Sterile

931704
Bidirectional Transfer Cap for Optimum Growth™ 1.6L Flask for
Peristaltic Pump, 2' tubing welded to 1/4" C-Flex 16 - Sterile

Custom Tubing Available*
Please contact us at folks@htslabs.com
*Minimum order of 100 pieces required