

## SEAL-IN SUCTION TRANSTIBIAL PROSTHESIS

A seal-in suction prosthesis combines a suction suspension with a total surface bearing design prosthesis. It is designed around the principle that the pressure within the socket is evenly distributed on the entire residual limb. This style of prosthesis is used for a below the knee (transtibial) amputation. It consists of roll-on silicone liner that provides a cushioned barrier between your residual limb and the prosthetic socket. This liner has a rubber seal or series of seals that secure tightly against the interior walls of the socket. The secure seal with the socket allows for air to escape through a one-way valve at the bottom of the socket, thus creating suction. This type of prosthesis is best for people who do not experience much volume fluctuation. It should only be used by the person for whom it was prescribed and custom fabricated for, and only according to physician recommendation.

### Application

1. Take your roll-on liner and turn it completely inside out. You may need to spray a little rubbing alcohol or rub the seal with a small amount of lotion to make this process a little easier. Unless instructed to do so by your Prosthetist, do not put any lotions on your skin prior to putting on the liner.
2. With the liner centered at the bottom of your leg, press it up against the residual limb and begin **ROLLING** the liner up. Be careful not to pull it up like a sock or you will be at risk to developing blisters at the top edge. Ensure there are no wrinkles in your liner. If there are, you need to roll it back down and start over.
3. If you have a single seal on your liner, make sure that it is also flipped up into its normal position.
4. You may once again rub a small amt of lotion, water, or rubbing alcohol on the sleeve to allow it to slide easily into the prosthetic socket.
5. Although not necessary, you may remove the valve from the bottom of the prosthesis to allow the air to evacuate easier as you put your leg into the socket.
6. Now slightly bend your leg, line it up with the prosthesis, and insert your leg into the prosthetic socket. Gently push down.
7. Since this system must be snug to ensure effectiveness, you may need to alternate gently pushing and relaxing to work the leg into the socket.
8. If you removed the valve in Step 5, you need to make sure to put this back into the socket now. Press the button once the valve is in place to evacuate any remaining air.
9. Be sure to double check that you are well seated and secure in the prosthesis before taking any steps.

### Cleaning Instructions

1. To clean the silicone liner- Turn the liner inside out. Using a mild soft soap and some water, wipe down the inside of the liner to rid it of any skin cells and perspiration. Rinse thoroughly with water. Pat dry with a lint free towel, and then return to its normal position. Do NOT leave the liner

- inside out to dry as this will cause the gel at the bottom to wear out and stretch out.
2. To clean the socket, just wipe with a damp cloth.

It is important to schedule regular follow-up appointments with your Prosthetist for maintenance of your prosthesis as well as to verify the fit and function are appropriate for your current needs.

If you have any questions or concerns, please contact your nearest Westcoast Brace and Limb facility to speak with your Prosthetist or Prosthetic Case Manger.

Single Rubber Seal, folds down allowing socks to be placed underneath it for volume adjustability (see Troubleshooting document for information on sock management).



Multiple rubber seals. These Do not fold down, thus limiting the amount of volume adjustability.



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