



SpeakValve option

for the HAMILTON-T1/C1/MR1

The SpeakValve option¹ is available for adult and pediatric patients with a tracheostomy, exclusively in combination with the ventilation modes PCV+, PSIMV+, and SPONT. The SpeakValve option enables the use of the Passy Muir® Tracheostomy and Ventilator Swallowing and Speaking Valve PMV® 007 or a similar device with the HAMILTON-C1/T1/MR1 ventilators.

Passy Muir speaking valves offer the benefits of a patented, closed position no-leak design. They attach easily to standard 15-mm tracheostomy tube hubs and can be used by all tracheostomy patients, pediatric and adult.

¹ Ventilator software versions 2.2 and above only

Passy Muir®

HAMILTON
MEDICAL

Step-by-step activation

Step 1

Start the ventilator and perform the preop checks. Skip this step if the patient is already on the ventilator, and preop checks have been carried out previously.

Step 2

Select a compatible mode: PCV+, PSIMV+, or SPONT.

Step 3

In the Controls window, touch the **SpeakValve** tab and activate **SpeakValve ON**. Carefully review the information displayed in the window. Confirm by touching **Apply**.

Step 4

Turn off PEEP, whenever clinically possible, prior to completing cuff deflation.

Step 5

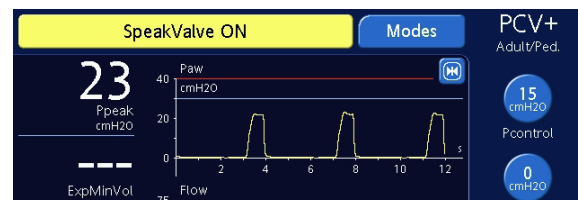
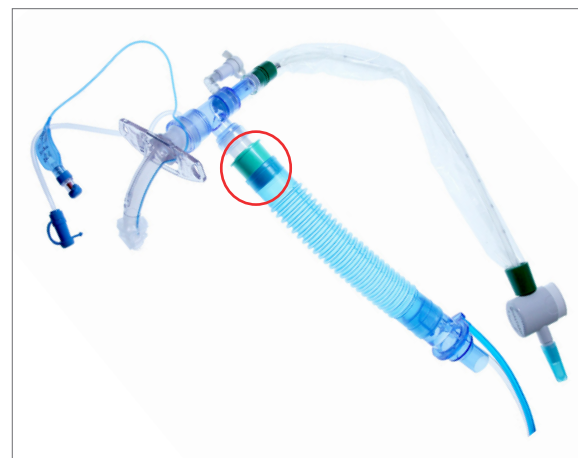
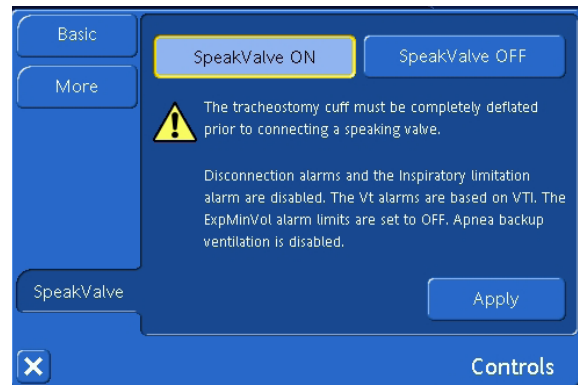
Slowly deflate the tracheostomy cuff completely.

Step 6

Insert the speaking valve into the circuit, between the flow sensor and the patient. Reconnect the circuit to the patient.

Step 7

SpeakValve ON is displayed continuously in the message bar, and the yellow ventilator alarm lamp will stay illuminated until the **SpeakValve** option is deactivated.



Important information

- ✓ Monitoring, triggering, and alarm management have been adjusted to allow the use of the speaking valve. Certain monitoring parameters are not active. These will display as three dashes.
- ✓ Apnea backup ventilation is disabled when speaking valve compatibility is activated.
- ✓ Placing the ventilator in Standby will deactivate speaking valve compatibility.
- ✓ Changing to a ventilation mode that does not support the **SpeakValve** function will deactivate the function automatically.

Control settings with the SpeakValve option

- ✓ Consider setting PEEP to 0. The speaking valve allows the patient to restore positive airway pressure naturally.
- ✓ In PSIMV and SPONT modes, the setting **Ti max** is now available. This setting allows the user to guard against endless inspiration. Set **Ti max** to be slightly longer than the patient's natural inspiratory time.

Alarms with the SpeakValve option

- ✓ **Vte low** is now based on inspiratory volume. This alarm can occur if the cuff is still inflated.
- ✓ **Check patient interface** may occur if the **Vte low** alarm, or the **Low pressure** alarm are active, for example when the cuff may not be deflated, or the patient is disconnected.
- ✓ **ExpMinVol low** and **ExpMinVol high** alarms are now off.
- ✓ **Disconnection ventilator side** and **Disconnection patient side** alarms are suppressed. If appropriately set, the **Low pressure** alarm will indicate a disconnection.

Deactivating the SpeakValve option

Step 1

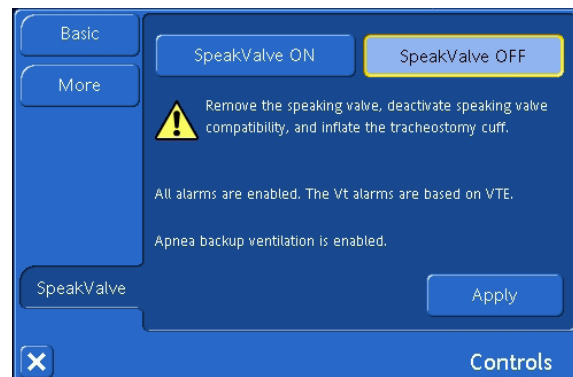
In the Controls window, touch the **SpeakValve OFF** button, and confirm with **Apply**.

Step 2

Remove the speaking valve and inflate the cuff.
Reconnect the circuit to the patient.

Important information

- ✓ Upon deactivation, alarms and monitoring parameters return to their previous operation.
- ✓ The **ExpMinVol** alarm limits are reset based on the patient's IBW.



Caution!

- ✓ The tracheostomy cuff must be completely deflated prior to connecting a speaking valve
- ✓ Disconnection alarms and inspiratory limitation alarms are disabled
- ✓ The Vt alarms are based on VTi
- ✓ The ExpMinVol alarm limits are set to off
- ✓ Apnea backup ventilation is disabled
- ✓ Do not leave the patient unattended when speaking valve compatibility is activated and a speaking valve is connected to the patient.

This document is intended as a quick reference guide only.

For complete information, refer to the Hamilton Medical operator's manual and/or the Passy Muir website: <http://www.passymuir.com/>

Manufacturer:

Hamilton Medical AG

Via Crusch 8, 7402 Bonaduz, Switzerland

☎ +41 (0)58 610 10 20

info@hamilton-medical.com

www.hamilton-medical.com