

## **SIEMENS SERVO i VENTILATOR – DESCRIPTION OF MODES**

MODE NAME	BRIEF DESCRIPTION	INTENDED USE
SIMV (PC) + PS	<p>A mode, which combines elements of “Control” ventilation with elements of “Support” ventilation.</p> <p>In this mode, a certain number of breaths per minute are set (SIMV Rate) and the patient may breathe spontaneously in between these breaths. The spontaneous breaths may be augmented with pressure Support.</p> <p>The SIMV breaths are timed to synchronize with the patient’s breathing effort.</p> <p>In this mode, the SIMV breaths are given at a set pressure level and the tidal volume will vary directly with compliance.</p> <p>The SIMV breaths are delivered in a style which produces lower PIPs than in the SIMV (VC) + PS mode.</p>	<p>This mode is intended for patients who have the capacity to breathe and who are ready to assume a degree of their own work of breathing, but who are not quite ready for a Support mode.</p> <p>Since this mode contains elements of Control ventilation and elements of support ventilation, it is very versatile. It is therefore, considered a weaning mode as the vent can be adjusted, over time, to provide more control than support to more support than control as the patient demonstrates the ability to assume a greater degree of their own work of breathing.</p>
SIMV (PRVC) + PS	<p>A mode which combines elements of “Control” ventilation with elements of “Support” ventilation</p> <p>In this mode, a certain number of breaths per minute are set (SIMV Rate) and the patient may breathe spontaneously in between these breaths. The spontaneous breaths may be augmented with pressure Support.</p> <p>The SIMV breaths are timed to synchronize with the patient’s breathing effort.</p> <p>In this mode, the SIMV breaths are delivered at a pressure level which regulates from breath to breath to maintain the set tidal volume.</p> <p>The SIMV breaths are delivered in a style which produces lower PIPs than the SIMV (VC) + PS mode.</p>	<p>This mode is intended for patients who have the capacity to breathe and who are ready to assume a degree of their own work of breathing, but who are not quite ready for a Support mode.</p> <p>Since this mode contains elements of Control ventilation and elements of Support ventilation, it is very versatile. It is therefore, considered a weaning mode as the vent can be adjusted, over time, to provide more control than support to more support than control as the patient demonstrates the ability to assume a greater degree of their own work of breathing.</p>

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MODE NAME	BRIEF DESCRIPTION	INTENDED USE
VOLUME SUPPORT (VS)	<p>A mode which provides just a boost to the patient's own spontaneous breathing. Each time the patient takes a breath, the vent delivers gas at a pressure level which will achieve a set tidal volume.</p> <p>There is no rate set in this mode. The patient determines their own rate and inspiratory time.</p> <p>A tidal volume is set and the PIP will adjust automatically from breath to breath compensating for changes in the patient's effort and compliance in order to maintain the set tidal volume.</p> <p>Back-up ventilation is provided in case of apnea.</p>	<p>This mode is intended for patients who need only a degree of Support for their own breathing and is often the last step in the weaning process before extubation.</p>
SIMV (VC) + PS	<p>A mode which combines elements of "Control" ventilation with elements of "Support" ventilation.</p> <p>In this mode, a certain number of breaths per minute are set (SIMV Rate) and the patient may breathe spontaneously in between these breaths. The spontaneous breaths may be augmented with Pressure Support.</p> <p>The SIMV breaths are timed to synchronize with the patient's breathing effort.</p> <p>In this mode, the SIMV breaths are given at a set tidal volume and the PIP will vary inversely with the patient's compliance.</p>	<p>This mode is intended for patients who have the capacity to breathe and who are ready to assume a degree of their own work of breathing, but who are not quite ready for a Support mode.</p> <p>Since this mode contains elements of Control ventilation and elements of Support ventilation, it is very versatile. It is therefore, considered a weaning mode as the vent can be adjusted, over time, to provide more control than support to more support than control as the patient demonstrates the ability to assume a greater degree of their own work of breathing.</p>

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MODE NAME	BRIEF DESCRIPTION	INTENDED USE
<p><b>PRESSURE REGULATED VOLUME CONTROL (PRVC)</b></p>	<p>A mode, which combines the benefits of the VC and the PC modes. That is, it provides consistent tidal volumes as in VC and delivers gas in the style of PC for low delivered pressures. So, a target tidal volume is set and the vent will deliver gas at the lowest possible pressure to achieve that volume.</p> <p>The number of breaths per minute is set and the vent will deliver at least that number of breaths each minute. The patient may trigger extra breaths. Each extra breath will be delivered at the set tidal volume.</p> <p>The PIP will vary inversely with the patient's lung and chest wall compliance.</p> <p>Gas is delivered in a style, which produces lower pressures than those in the Volume Control mode.</p> <p>The ventilator assumes the majority of the patient's work of breathing and the patient has little control over their ventilatory pattern.</p>	<p>Intended for patients without breathing capacity or patients whose condition makes it difficult for the patient to breath on their own.</p> <p>This is a Control or Assist/Control mode is not a good mode from which to wean ventilatory support.</p>
<p><b>PRESSURE SUPPORT (PS)</b></p>	<p>A mode which provides just a boost to the patient's own spontaneous breathing. Each time the patient takes a breath, the vent supplies gas at a certain pressure to ease the patient's work of breathing.</p> <p>The PIP will be the sum of the set pressure level and the PEEP level.</p> <p>There is no rate set in this mode. The patient determines their own rate and inspiratory time.</p> <p>Tidal Volume will vary directly with the patient's effort and compliance.</p> <p>Back-up ventilation is provided in case of apnea.</p>	<p>This mode is intended for patients who need only a degree of support for their own breathing and is often the last step in the weaning process before extubation.</p>