



DeVilbiss SmartFlex™

You **and** Your Patients Will Breathe Easier

Continuous pressure generated from a PAP device — specifically during exhalation — can create discomfort for a user. In response to this, DeVilbiss Healthcare created a unique exhalation pressure relief function called SmartFlex, available on the IntelliPAP® Standard Plus, IntelliPAP® AutoAdjust®, and IntelliPAP AutoBilevel Systems. By minimizing the pressure experienced during exhalation, SmartFlex may increase patient compliance.

Less Pressure. Customizable Transitioning. More Success.

- Competitors offer two or three standard adjustments; SmartFlex delivers a **higher level of customization**
- **Three pressure relief drops** and **six rounding settings** ease inhale and exhale transitions
- **Six settings** — from 0 to 5, in increments of one — provide an **exclusive DeVilbiss advantage**: the ultimate in adjustment
- **Flexible adjustment of the waveform shape** for both inhale and exhale transitions, and mild-to-maximum pressure relief
- The SmartFlex **waveform can be “rounded”** to make pressure drops and corresponding increases feel even more natural to every patient

Performance Features

Available in AutoAdjust and CPAP Modes	Yes
# Selectable Pressure Relief Levels	3
Relative Vs. Exact Pressure Drop	Exact
Increment of Pressure Relief Levels	1 cm H ₂ O
Independent Inspiratory and Expiratory Transitions	6 Settings for Each
Duration of Pressure Drop	Throughout Exhalation
Relief Disengagement in the Absence of Sufficient Breath*	Yes
Delay Mode Only	Yes

* The SmartFlex disengagement feature ensures that in the absence of sufficient patient breathing effort, the CPAP pressure will shift to the prescription pressure until normal breathing resumes.

SmartFlex is featured on
DeVilbiss IntelliPAP Standard Plus,
IntelliPAP AutoAdjust, and IntelliPAP
AutoBilevel CPAP Systems

User-Friendly Technology

The SmartFlex feature can be unlocked so patients can easily adjust settings. Settings can be fine-tuned over time. Settings can be locked to prevent changes.

Breath-by-Breath Response

SmartFlex tracks each breath — detecting onset of inspiration and expiration, and adjusting relief pressure to proper levels. By reducing pressure at the beginning of exhalation and returning to therapeutic pressure upon inhalation, SmartFlex ensures the maximum benefit of prescribed therapy, and assures a comfortable night's sleep.

Patented** SmartFlex Rounding

SmartFlex is the only expiratory pressure relief technology featuring individual adjustment of inhale and exhale pressure waveforms. With settings from 0 to 5 on inhale rounding and exhale rounding, maximum customization and comfort are possible. The higher the setting, the smoother the flow and transition to and from prescribed pressures.

Truly Smart Technology

SmartFlex was engineered to automatically turn off during apnea events, then resume after each event. If a patient's exhalation period is longer than 15 seconds, then the SmartFlex operation is suspended and reverts to prescribed pressure until detection of the next inhalation phase.

Smooth Operation

When SmartFlex is engaged, FLX is displayed on the IntelliPAP display. There are three operating modes offering specific benefits:

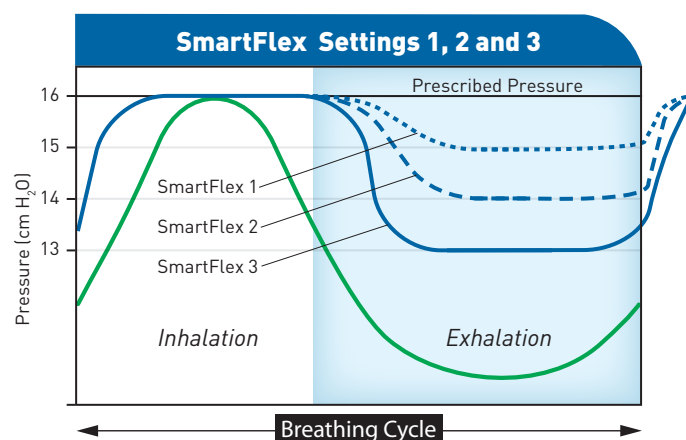
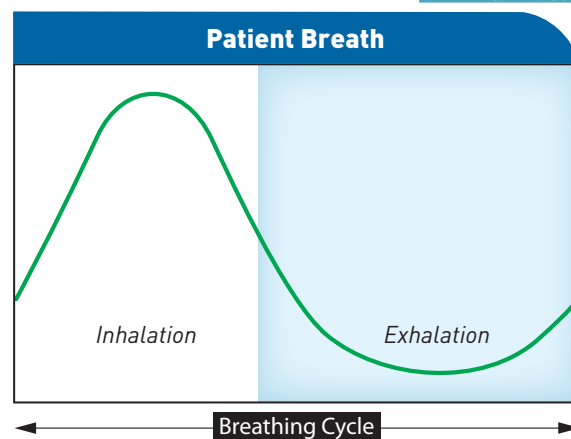
- Delay only
- Full-time
- Off

In Delay mode, SmartFlex is activated only during the pressure delay time period, as selected by you or a patient. After the selected delay time period, the system's pressure reverts to the prescribed pressure setting and disengages SmartFlex rounding. The system can also be set to run full-time, providing ongoing all-night comfort.

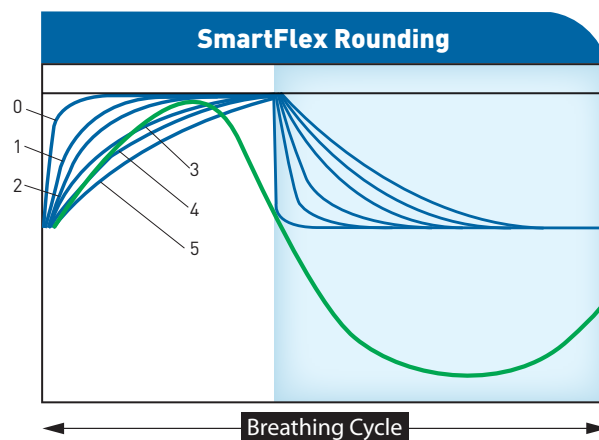
** U.S. patent 5,865,173.



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SmartFlex offers three pressure reduction settings that will automatically reduce the pressure generated by the IntelliPAP upon exhalation and raise the pressure back up to prescribed pressure at the onset of inspiration. The settings correlate to an exact cm H₂O pressure drop – so a setting of 1 = 1 cm H₂O drop in pressure during exhalation.



To enhance comfort, SmartFlex Rounding is a patented** customization of transitions between inhale and exhale. This allows a user to experience a more natural breathing waveform.