



One-Way Valve (OWV) IN LINE

Dräger V800/ V600

<p>Do NOT use if:</p>	<ul style="list-style-type: none"> • New tracheostomy (<48 hours) • Significant air leak around tracheostomy stoma – concerns re: surgical emphysema • Airway obstruction 	<ul style="list-style-type: none"> • Significant Tracheostomy bleeding • Recent head and neck surgery (check with surgeon or SLT)
<p><i>Note: There may be other contraindications not listed above.</i></p>		
<p>S</p> <p>Selection of patient</p>	<p>No recent deterioration in respiratory status?</p> <p>Is the FiO₂ and ventilation within target parameters (see weaning plan)?</p> <p>Does the patient tolerate cuff deflation?</p> <p>Scores A or V on AVPU? If less alert seek MDT/ specialist advice</p> <p>Stable cardiovascular status?</p>	
<p>P</p> <p>Prepare your equipment</p>	<p>10ml syringe x 2</p> <p>Yankeur/Soft suction catheter</p> <p>OWV and OWV warning adhesive label</p> <p>OWV ventilator connector</p>	
<p>E</p> <p>Eradicate air Ensure cuff deflation</p>	<p>Aspirate subglottic port (<i>if patient has one</i>)</p> <p>Slowly DEFLATE THE CUFF, considering need for simultaneous closed suctioning</p> <p>Can you feel or hear air flow through the upper airway or can they speak? (<i>If yes continue</i>)</p> <p>Can you confirm that there is no audible stridor? (<i>If yes continue</i>)</p>	
<p>A</p> <p>Assess</p>	<p>Observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations, if present place OWV in-line with connector</p> <p>Change ventilation therapy from Tube to NIV:</p> <p>Start/Standby → NIV/Mask Ventilation Mode → Confirm with Rotary knob → Start/Standby</p> <p>Please note the actual mode of ventilation does not need to be altered just the ventilation therapy</p> <p>Turn off Minute Ventilation and Apnoea alarm</p> <p>Refer to weaning plan for guidance of ventilation settings and duration</p>	
<p>K</p> <p>Keep an eye</p>	<p>Monitor the patient constantly whilst they have the OWV in line</p> <p>Reasons to consider removal of one-way valve:</p> <ul style="list-style-type: none"> • Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing • Cardiovascular instability • Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention <p><i>Once OWV removed, fully inflate cuff, return to Tube Therapy setting & turn Minute Ventilation & Apnoea Alarms back on</i></p>	

One-Way Valve (OWV) IN LINE

Dräger Evita XL

<p>Do NOT use if:</p>	<ul style="list-style-type: none"> • New tracheostomy (<48 hours) • Significant air leak around tracheostomy stoma – concerns re: surgical emphysema • Airway obstruction 	<ul style="list-style-type: none"> • Significant Tracheostomy bleeding • Recent head and neck surgery (check with surgeon or SLT)
<p><i>Note: There may be other contraindications not listed above.</i></p>		
<p>S</p> <p>Selection of patient</p>	<p>No recent deterioration in respiratory status?</p> <p>Is the FiO₂ and ventilation within target parameters (see weaning plan)?</p> <p>Does the patient tolerate cuff deflation?</p> <p>Scores A or V on AVPU? If less alert seek MDT/ specialist advice</p> <p>Stable cardiovascular status?</p>	
<p>P</p> <p>Prepare your equipment</p>	<p>10ml syringe x 2</p> <p>Yankeur/Soft suction catheter</p> <p>OWV and OWV warning adhesive label</p> <p>OWV ventilator connector</p>	
<p>E</p> <p>Eradicate air Ensure cuff deflation</p>	<p>Aspirate subglottic port (<i>if patient has one</i>)</p> <p>Slowly DEFLATE THE CUFF, considering the need for simultaneous closed suctioning</p> <p>Can you feel or hear air flow through the upper airway or can they speak? (<i>If yes continue</i>)</p> <p>Can you confirm that there is no audible stridor? (<i>If yes continue</i>)</p>	
<p>A</p> <p>Assess</p>	<p>Observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations, if present insert OWV in-line with connector</p> <p>Change application mode to NIV:</p> <p>Start/Standby → Standby → Tube/ Mask tab → Mask (NIV) button → Confirm with rotary knob → Start/Standby → Start</p> <p>Turn off Apnoea alarm</p> <p>Reduce 'Low MV' alarm parameter: suggested to 0.1 l/min as minimum setting for this ventilator</p> <p>Refer to weaning plan for guidance of ventilation settings and duration</p>	
<p>K</p> <p>Keep an eye</p>	<p>Monitor the patient constantly whilst they have the OWV in line</p> <p>Reasons to consider removal of one-way valve:</p> <ul style="list-style-type: none"> • Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing • Cardiovascular instability • Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention <p><i>Once OWV removed, fully inflate cuff, return to Tube mode & turn Apnoea Alarm back on & 'Low MV' parameter back to baseline</i></p>	

One-Way Valve (OWV) IN LINE

Servo-I /U

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

No recent deterioration in respiratory status?

Is the FiO_2 and ventilation within target parameters (see weaning plan)?

Does the patient tolerate cuff deflation?

Scores A or V on AVPU? If less alert seek MDT/ specialist advice

Stable cardiovascular status?

Selection of patient

P

10ml syringe x 2

Yankeur/Soft suction catheter

OWV and OWV warning adhesive label

OWV ventilator connector

Prepare your equipment



E

Aspirate subglottic port (*if patient has one*)

Slowly DEFLATE THE CUFF, considering the need for simultaneous closed suctioning

Can you feel or hear air flow through the upper airway or can they speak? (*If yes continue*)

Can you confirm that there is no audible stridor? (*If yes continue*)

Eradicate air Ensure cuff deflation

A

Observe a minimum of 40% leak in V_{Te} versus V_{Ti} / minimum of 40% leak in ventilator observations, if present insert OWV in-line with connector

Change **ventilation mode to NIV-PS or NIV-PC as clinically appropriate:**

Standby → Accept → NIV Ventilation Mode → Accept → Start/ Standby to restart ventilation

Reduce 'Low MV' alarm parameter: suggested to 0.5 l/min

Refer to weaning plan for guidance of ventilation settings and duration

Assess

K

Monitor the patient constantly whilst they have the OWV in line

Reasons to consider removal of one-way valve:


- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
- Cardiovascular instability
- Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Keep an eye

Once OWV removed, fully inflate cuff, return to invasive mode setting & return 'Low MV' alarm parameter to baseline

One-Way Valve (OWV) IN LINE

Hamilton C3/ C6/ G5

Do NOT use if:	<ul style="list-style-type: none"> New tracheostomy (<48 hours) Significant air leak around tracheostomy stoma – concerns re: surgical emphysema Airway obstruction 	<ul style="list-style-type: none"> Significant Tracheostomy bleeding Recent head and neck surgery (check with surgeon or SLT)
<i>Note: There may be other contraindications not listed above.</i>		
S Selection of patient	No recent deterioration in respiratory status?	
	Is the FiO ₂ and ventilation within target parameters (see weaning plan)?	
	Does the patient tolerate cuff deflation?	
	Scores A or V on AVPU? If less alert seek MDT/ specialist advice	
	Stable cardiovascular status?	
P Prepare your equipment	10ml syringe x 2	
	Yankeur/Soft suction catheter	
	OWV and OWV warning adhesive label	
	OWV ventilator connector	
E Eradicate air Ensure cuff deflation	Aspirate subglottic port <i>(if patient has one)</i>	
	Slowly DEFLATE THE CUFF, considering the need for simultaneous closed suctioning	
	Can you feel or hear air flow through the upper airway, or can they speak? <i>(If yes continue)</i>	
	Can you confirm that there is no audible stridor? <i>(If yes continue)</i>	
A Assess	Observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations, if present insert OWV in-line with connector	
	Change ventilation mode to NIV-ST/ NIV Mode as appropriate:	
	Modes → NIV-ST/ NIV Mode → Ensure PEEP/ PS/ FiO₂ same as baseline → Confirm	
	Reduce 'Low MV' alarm parameter: suggested to 0.6 l/min as lowest appropriate setting on these ventilators	
Refer to weaning plan for guidance of ventilation settings and duration		
K Keep an eye	Monitor the patient constantly whilst they have the OWV in line	
	Reasons to consider removal of one-way valve: <ul style="list-style-type: none"> Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing Cardiovascular instability Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention 	
<i>Once OWV removed, fully inflate cuff, return to invasive mode setting & return 'Low MV' alarm parameter to baseline</i>		

One-Way Valve(OWV) IN LINE

Hamilton C1/ T1/MR1 – with ‘Speak Valve’ function,

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

Is the FiO₂ and ventilation within target parameters (see weaning plan)?

Does the patient tolerate cuff deflation?

Scores A or V on AVPU? If less alert seek MDT/ specialist advice

Stable cardiovascular status?

Selection of patient

P

10ml syringe x 2

Yankeur/Soft suction catheter

OWV and OWV warning adhesive label

OWV ventilator connector

Observe and document average TI (*Found in monitoring page 2*)

Prepare your equipment



E

Aspirate subglottic port (*if patient has one*)

Slowly DEFLATE THE CUFF, considering the need for simultaneous closed suctioning

Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)

Can you confirm that there is no audible stridor? (*If yes continue*)

Eradicate air Ensure cuff deflation

A

Observe a minimum of 40% leak (Found in monitoring tab page 2): if present insert OWV, in-line with the connector

Select and apply **SpeakValve ON** (Found in controls and SpeakValve)

Controls → Page More → set TI Max 0.2-0.4 seconds longer than average observed TI

Refer to weaning plan for guidance of ventilation settings and duration

Set High VTI just above observed VTI (note the VTI will be significantly higher than baseline)

Set Low pressure alarm to just below observed pressure

Assess

K

Monitor the patient constantly whilst they have the OWV in line

Reasons to consider removal of one-way valve:

- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
- Cardiovascular instability
- Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Keep an eye

Once OWV removed, fully inflate cuff, turn ‘Speak Valve Off’

One-Way Valve (OWV) IN LINE

Hamilton C1/ T1/ MR1 – without ‘SpeakValve’ Function

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

Selection of patient

- Is the FiO₂ and ventilation within target parameters (see weaning plan)?
- Does the patient tolerate cuff deflation?
- Scores A or V on AVPU? If less alert seek MDT/ specialist advice
- Stable cardiovascular status?

P

Prepare your equipment

- 10ml syringe x 2
- Yankeur/Soft suction catheter
- OWV and OWV warning adhesive label
- OWV ventilator connector



E

Eradicate air Ensure cuff deflation

- Aspirate subglottic port (*if patient has one*)
- Slowly DEFLATE THE CUFF, considering the need for simultaneous closed suctioning
- Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)
- Can you confirm that there is no audible stridor? (*If yes continue*)

A

Assess

- Observe a minimum of 40% leak (Found in monitoring tab page 2) if present insert OWV, in-line with the connector
- Change **ventilation mode to NIV or NIV-ST Mode as appropriate:**
- Modes → NIV or NIV-ST Mode → Ensure PEEP/ PS/ FiO₂ same as baseline → Confirm**
- Reduce ‘Low MV’ alarm parameter: suggested to 0.6 l/min as lowest possible setting on these ventilators
- Refer to weaning plan for guidance of ventilation settings and duration

K

Keep an eye

Monitor the patient constantly whilst they have the OWV in line

Reasons to consider removal of one-way valve:

- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
- Cardiovascular instability
- Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Once OWV removed, fully inflate cuff, return to invasive mode setting & return ‘Low MV’ alarm parameter to baseline

One-Way Valve (OWV) IN LINE NIPPY 3/4/4+

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

Selection of patient

- No recent deterioration in respiratory status?
- Is the FiO₂ and ventilation within target parameters (see weaning plan)?
- Does the patient tolerate cuff deflation?
- Scores A or V on AVPU? If less alert seek MDT/ specialist advice
- Stable cardiovascular status?

P

Prepare your equipment

- 10ml syringe x 2
- Yankeur/Soft suction catheter
- OWV and OWV warning adhesive label
- OWV ventilator connector



E

Eradicate air Ensure cuff deflation

- Aspirate subglottic port (*if patient has one*)
- Slowly DEFLATE THE CUFF, considering need for simultaneous closed suctioning
- Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)
- Can you confirm that there is no audible stridor? (*If yes continue*)

A

Assess

- Observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations
- Place the OWV in line, with the connector attached to the purple end of the NIPPY circuit
- All alarms should be left as per set for the patient.
- N.B: Ensure that the **Disconnection Alarm** must be turned on
- Refer to weaning plan for guidance of ventilation settings and duration

K

Keep an eye

Monitor the patient constantly whilst they have the OWV in line

- Reasons to consider removal of one-way valve:
- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
 - Cardiovascular instability
 - Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Once OWV removed, fully inflate cuff

One-Way Valve (OWV) IN LINE **NKV-330 NIV**

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

Selection of patient

- No recent deterioration in respiratory status?
- Is the FiO₂ and ventilation within target parameters (see weaning plan)?
- Does the patient tolerate cuff deflation?
- Scores A or V on AVPU? If less alert seek MDT/ specialist advice
- Stable cardiovascular status?

P

Prepare your equipment

- 10ml syringe x 2
- Yankeur/Soft suction catheter
- OWV and OWV warning adhesive label
- OWV ventilator connector



E

Eradicate air Ensure cuff deflation

- Aspirate subglottic port (*if patient has one*)
- Slowly DEFLATE THE CUFF, considering need for simultaneous closed suctioning
- Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)
- Can you confirm that there is no audible stridor? (*If yes continue*)

A

Assess

- Place OWV in-line with the connector
- Change **patient interface**:
Standby → confirm → menu → circuit config → mask with exhalation port → resume ventilation
- Refer to weaning plan for guidance of ventilation settings and duration

K

Keep an eye

- Monitor the patient constantly whilst they have the OWV in line**
- Reasons to consider removal of one-way valve:
 - Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
 - Cardiovascular instability
 - Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Once OWV removed, fully inflate cuff and change patient interface back to ETT/Trache

High Flow Oxygen Therapy with One-Way Valve (OWV)

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

No recent deterioration in respiratory status?

Is the FiO₂ and ventilation within target parameters (see weaning plan)?

Does the patient tolerate cuff deflation?

Scores A or V on AVPU? If less alert seek MDT/ specialist advice

Stable cardiovascular status?

Selection of patient

P

10ml syringe x 2

Yankeur/Soft suction catheter

OWV and OWV warning adhesive label and OWV connector

High Flow Oxygen circuit & tracheostomy interface

Prepare your equipment



E

Aspirate subglottic port (*if patient has one*)

DEFLATE THE CUFF, considering the need for simultaneous tracheal suctioning

Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)

Can you confirm that there is no audible stridor? (*If yes continue*)

Eradicate air Ensure cuff deflation

A

If currently ventilated, observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations, if present then disconnect from ventilator

Finger occlude tracheostomy. If tolerated apply OWV to end of trache

Place on high flow oxygen therapy via tracheostomy interface & OWV connector, observe for changes in work of breathing, respiratory rate/ pattern & SpO₂,

Refer to weaning plan for guidance of duration of OWV use

Assess

K

Monitor the patient whilst they have the OWV in situ.

Reasons to consider removal of one-way valve:

- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
- Cardiovascular instability
- Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Ensure to remove OWV before re-inflating the tracheostomy cuff for any reason. Either return to ventilation or high flow oxygen therapy as per plan

Keep an eye

Self-Ventilating with One-Way Valve (OWV)

Do NOT use if:

- New tracheostomy (<48 hours)
- Significant air leak around tracheostomy stoma – concerns re: surgical emphysema
- Airway obstruction
- Significant Tracheostomy bleeding
- Recent head and neck surgery (check with surgeon or SLT)

Note: There may be other contraindications not listed above.

S

No recent deterioration in respiratory status?

Is the FiO₂ and ventilation within target parameters (see weaning plan)?

Does the patient tolerate cuff deflation?

Scores A or V on AVPU? If less alert seek MDT/ specialist advice

Stable cardiovascular status?

Selection of patient

P

10ml syringe x 2

Yankeur/Soft suction catheter

OWV and OWV warning adhesive label

Trache mask

Oxygen tubing (ideally heated & humidified)

Prepare your equipment



E

Aspirate subglottic port (*if patient has one*)

DEFLATE THE CUFF, considering the need for simultaneous tracheal suctioning

Can you feel or hear air flow through the upper airway, or can they speak? (*If yes continue*)

Can you confirm that there is no audible stridor? (*If yes continue*)

Eradicate air Ensure cuff deflation

A

If currently ventilated, observe a minimum of 40% leak in VTe versus Vti / minimum of 40% leak in ventilator observations. Disconnect from ventilator.

Finger occlude tracheostomy. If tolerated apply OWV to end of trache

Place on humidified/ heated humidified oxygen via trache mask

Refer to weaning plan for guidance of duration

Assess

K

Monitor the patient whilst they have the OWV in situ.

Reasons to consider removal of one-way valve:

- Respiratory instability: Significant desaturation or tachypnoea, outside of target parameters (as per weaning plan) and/or significant, unresolving increase in work of breathing
- Cardiovascular instability
- Airway concerns: Stridor or inability to manage oral secretions, despite repeated intervention

Keep an eye

Ensure to remove OWV before re-inflating the tracheostomy cuff for any reason