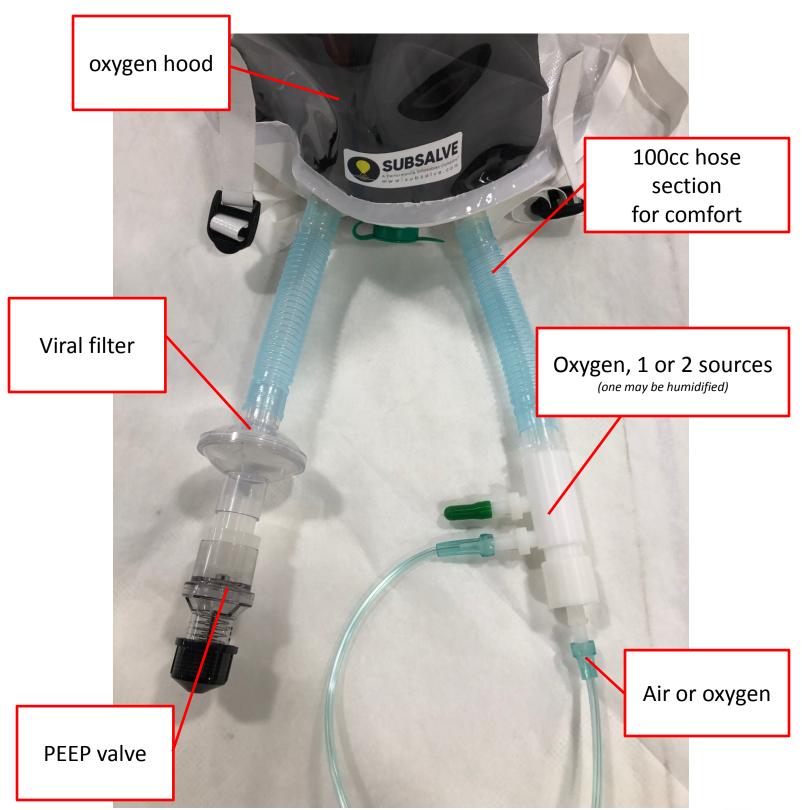
# Hooded/Helmet Positive Airway Pressure (HPAP) for NIV

# Circuit Configuration | Wall Gas Titration Method

Note: follow clinical guidance and/or manufacturers' recommendations for implementing treatment using Pressure, Flow, and FiO2 adjustments.





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High Flow Air & Oxygen Titration (wall gas only)					
Flow	introduced i	n to HPAP sv	/stem		
Air supply	Oxygen	Oxygen	Oxygen	Total Flow	FiO2
(LPM)	supply 1	supply 2	supply 3	(LPM)	HIGE
120	(LPM)	(LPM)	(LPM)	120	0.21
120				120	0.21
100	0			100	0.21
100	5			105	0.25
100	10 20			110	0.28
100	20			120	0.34
60	0			60	0.21
60	5			65	0.27
60	10			70	0.32
60 60	20 30			80 90	0.41 0.47
60	30	5		95	0.47
60	30	10		100	0.53
60	30	20		110	0.57
60	30	30		120	0.61
30	30			60	0.61
30	30	5		65	0.64
30	30	10		70	0.66
30	30	20		80	0.70
30	30	30		90	0.74
30	30	30	5	95	0.75
30	30 30	30 30	10 20	100 110	0.76 0.78
30	30	30	30	120	0.80
15	30	20		65	0.82
15	30	30	_	75	0.84
15 15	30 30	30 30	5 10	80 85	0.85 0.86
15	30	30	20	95	0.88
15	30	30	30	105	0.89
10	30	30		70	0.89
10 10	30 30	30 30	5 10	75 80	0.89
10	30	30	20	90	0.90
10	30	30	30	100	0.92
5	30	30	_	65	0.94
5	30	30	5 10	70 75	0.94
<u>5</u>	30 30	30 30	10 20	85	0.95 0.95
5	30	30	30	95	0.96
	30	30		60	1.00
	30 30	30 30	5 10	65 70	1.00
	30	30	20	80	1.00
	30	30	30	90	1.00
Assumptions iO2 is calcul 20 LPM max	ated; analytic gas flow	al results may		Color Legend minimum to p total flow oxygen	revent CO2
30 LPM max O2 flow per supply 60 LPM required to mitigate CO2 rebreathing				sufficient flow alone insufficent flow alone	

## **Notes**

- >60LPM total flow is required for hooded positive airway pressure NIV.
- •This flow can be made up from multiple wall-gas sources with known flow rates.
- •It is recommended to humidify one of the oxygen supplies.

# **Instructional Guidance**

#### Configuration

•Configure hood as pictured. Change filter every 8 hours or as needed.

#### Flow

•Establish flow to >60LPM. Flow is gauged as the sum from all wall flowmeters.

#### **Pressure**

•Use the PEEP valve (5-25 cmH2O) to regulate positive pressure at the patient.

### Oxygen/FiO2

- •Select desired FiO2 using the table and adjust flow sources (blending of air and oxygen).
- •If adjusting FiO2, maintain at least the flow columns in yellow while transitioning.

- •Monitor PEEP pressure using a manometer in the circuit (not pictured).
- Monitor patient vitals and SpO2.

#### **Treatment**

•Implement treatment and monitor patient according to clinical best practices.