

EasyVEE®

FLOW DRIVER "JET" FOR CPAP (FOR MASK OR WITH HOOD)

The **EasyVEE®** Jet device (Venturi unit) works as a high flow driver (booster) for CPAP and it requires the gas supply from an Oxygen source only.

It must be used only for the ventilation with the specific mask or with hood. The device requires a PEEP valve placed on the outlet of expiratory side.

The JET system is mainly indicated for:

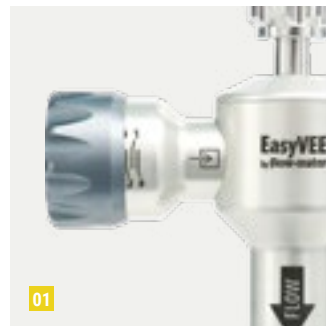
- Acute respiratory distress syndrome (ARDS)
- Severe respiratory distress
- Post-surgery hypoxemia
- Asthma
- Chronic obstructive pulmonary disease (COPD)
- Thoracic trauma
- Prophylaxis and treatment of acute apnoea attacks
- Pulmonary oedema and atelectasis of varying origins, and for weaning from a mechanical ventilator.

In hyaline membrane diseases, the alveoli expand with difficulty during inspiration and tend to collapse during expiration. Loss of alveolar tone associated with other causes such as endoalveolar transudation, interstitial oedema, the lack of or deficient surfactants, cause a series of modifications in the respiratory mechanism and distribution of air in the lungs leading to severe and progressive respiratory distress. Alveolar distension can be partially supported with a continuous positive airway pressure (CPAP), between the respiratory tract and the outside, throughout the entire respiratory cycle.

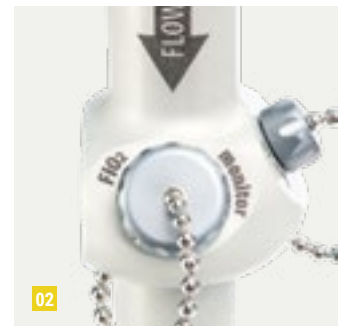
The aim of the pressure gradient is to:

- Ensure a greater opening of the alveoli during inspiration
- Prevent alveolar collapse at the end of expiration, by maintaining a PEEP level
- Reduce the effort necessary to breathe, thus avoiding hypoxemia, hypercapnia, metabolic and respiratory acidosis typical of IRDS.

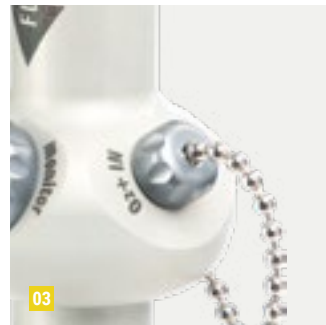
CPAP respiration, applied with any method, requires the patient's efficient spontaneous respiration (cases with frequent apnoea, or severe respiratory failure, require ventilator support). To the patient is administered a gaseous mixture, with an appropriate concentration of O₂, metered in L/min. by one or two oxygen flow meters, and the CPAP is obtained by discharging through a respiratory circuit terminal (PEEP valve), the expired gases.



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01 INTAKE AMBIENT AIR INLET
WITH ADJUSTABLE KNOB

02 FIO₂ MONITOR PORT

03 FIO₂+ PORT

EXCELLENCE IN INNOVATION
BREAKTHROUGH TECHNOLOGY
INTELLIGENT DESIGN





The **possible applications** are the following:

1. application for twin high flow flowmeter
2. application for single high flow flowmeter

TECHNICAL SPECIFICATIONS | EasyVEE®

SIZES (LxWxH)	100x55x150 mm
WEIGHT	0.35 Kg 0.55 Kg with oxygen analyzer (optional)
SUPPLIED GAS	O ₂
SUPPLIED STANDARD PRESSURE	400 kPa (4 bar) +/- 10%
FIO₂ ADJUSTMENT	from 35% to max 99%
OXYGEN SUPPLY CONNECTION	9/16" UNF EN 13544-2 F.
INLET CONNECTION FOR THE INTAKE AMBIENT AIR	Ø22 F. ISO DIN 5356-1
OUTLET CONNECTION	Ø22 M. - 16 F. ISO DIN 5356-1

TECHNICAL SPECIFICATIONS | Oxygen Analyzer

SENSOR TYPE	electrochemical
RANGE OF MEASUREMENT	0÷99% Vol. oxygen
DISPLAY INDICATION	1% Vol.
MEASUREMENT TIME	1 sec.
RESPONSE TIME	< 5 sec.
ACCURACY	±3% read value

1. APPLICATION FOR TWIN HIGH FLOW FLOWMETER

Flowmeter [A] with end of scale 30 L/min. -

Flowmeter [B] with end of scale 15 L/min. or 30 L/min.

In this configuration, the flow driver **EasyVEE®** is equipped with a supply connector mounted on the outlet of the first flowmeter [A], working as a "driver" source for the venturi system. Connected to Venturi Jet port through a hose, the second flowmeter [B] allows the adjustment of the O₂ concentration value (FIO₂) present in the mixture given to the patient. In addition, the flow driver **EasyVEE®** gives the possibility to monitor constantly the oxygen concentration present in the supplied mixture through an on-line oxygen analyzer (optional), connected to the FIO₂ monitor port. The connector for the ambient air intake (Ø 22 F) and the mixture outlet connector (Ø 22 M - 16 F) are both in accordance with Standard ISO DIN 5356-1, enable to add an on-line antimicrobial filter assuring a protection for the patient and reducing the noise of the system, thus giving a higher comfort during the therapy.



EasyVEE® twin flowmeter

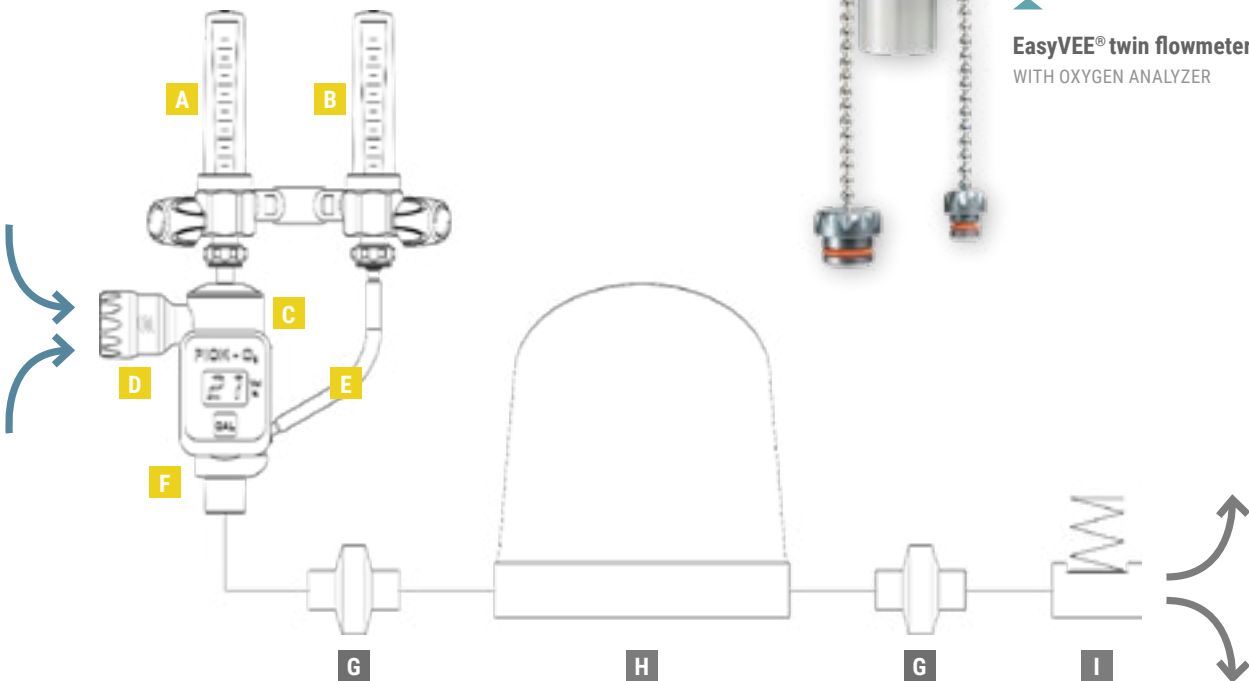


EasyVEE® twin flowmeter
WITH OXYGEN ANALYZER

- A** High flow Oxygen flowmeter driver (30 L/min.)
- B** Flowmeter for the additional dosage of Oxygen in the respiratory mixture (adjustment of FIO_2 - 15 L/min. or 30 L/min.)
- C** Jet Device (Venturi): works as a high flow driver (booster) for the non-invasive ventilation
- D** The connector for the intake ambient air with adjustable knob
- E** Hose for the connection of the FIO_2 port, present on the device Jet (Venturi), with the flowmeter (B) used for the additional dosage of Oxygen in the respiratory mixture
- F** On-line oxygen analyzer (optional)

OTHER SUPPLIER:

- G** Antimicrobial filter
- H** Hood (or facial mask) for CPAP
- I** PEEP valve





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EasyVEE® single flowmeter

2. APPLICATION FOR SINGLE HIGH FLOW FLOWMETER

Flow range 50 L/min. with double scale:
2-10 L/min. and 6-50 L/min.

The **EasyVEE®** Jet device is equipped with an inlet connection to be mounted on the outlet of the variable area flowmeter, working as a "driver" source for Venturi. The intake ambient air regulator, complete with connector Ø 22 F. - according to ISO DIN 5356-1, allows the adjustment of the oxygen concentration value (FIO₂) of the mixture supplied to the patient. The Jet device gives the possibility to monitor constantly the oxygen concentration present in the supplied mixture through an on-line oxygen analyser (optional), connected to the FIO₂ monitor port. The mixture outlet connector (Ø 22 M - 16 F) made in accordance with Standard ISO DIN 5356-1 enables to add an on-line antimicrobial filter assuring a protection for the patient and reducing the noise of the system, thus giving a higher comfort during the therapy.



EasyVEE® single flowmeter
WITH OXYGEN ANALYZER

- A** Single high flow flowmeter driver (flow range 50 L/min. with double scale: 2-10 L/min. and 6-50 L/min.)
- B** Jet Device (Venturi): works as a high flow driver (booster) for the non-invasive ventilation
- C** The connector for the intake ambient air with adjustable knob
- D** On-line oxygen analyzer (optional)

OTHER SUPPLIER:

- E** Antimicrobial filter
- F** Hood (or facial mask) for CPAP
- G** PEEP valve

