

Using a PEEP valve with the Merlin Ventilator

Merlin has been designed for use with an external PEEP valve. This can be one of the plastic semi-disposable types or a Vetronic Services stainless steel PEEP valve as shown in the picture below

The PEEP valve sits on the **Gas Out** port of Merlin and exerts PEEP by closing the valve once the airway pressure has fallen to the selected PEEP value. This always maintains the airway pressure in the patient circuit at or above the PEEP value.



The PEEP pressure will be shown on Merlin in two ways:

1. There will be a value on the main screen after the AP value. For example the screen may read: "AP=30/12". This indicates a Peak Inspiratory Pressure (PIP) of 30 cm H₂O and a PEEP of 12 cm H₂O.
2. The Left-Hand bargraph will show the residual PEEP pressure, also in cm H₂O.



In the picture above the PIP value is 30 and the PEEP value is 12 as indicated value on the screen and the left hand bargraph.

The adjustable PEEP valve can be altered at any time to provide the desired PEEP value.

The inclusion of the PEEP valve in the expiratory circuit does not require any other circuit changes or adjustments.