

Negative Inspiratory Force:

- Negative inspiratory force (NIF) is the maximum pressure that can be generate against an occluded airway and is a marker of respiratory muscle function and strength.
- The Negative Inspiratory Force index (NIF) measures the patient's maximum inhalation effort after exhaling.
- The patient system is closed during measurement of the NIF.
- This value is also known as the Maximum Inspiratory Pressure (MIP).
- As a result of the inhalation effort during manually extended expiration, the patient generates a negative pressure in relation to PEEP.
- The probability that the patient can be weaned successfully increases with the magnitude of this negative pressure.
- Patients with a NIF < -30mbar (more negative) can in all probability be weaned successfully, while those with a NIF of up to -20mbar (less negative) will most probably prove unsuccessful and weaning is more likely to fail.
- Evita 4 determines the NIF value during manually extended expiration.
- The patient system closes following expiration by the patient while the **Exp hold** key is held down and Evita 4 measures the maximum inhalation effort made by the patient.
- The NIF is measured as a pressure against PEEP.
- The measuring procedure is ended when the **Exp hold** key is released or after not more than 15 seconds.
- The most recent NIF value and the time of the measurement are shown in Table 2 on the screen.



Negative Inspiratory Force < -30 mbar

More likely to successfully wean.