

Armstrong Medical – NeoFlow (Old sample)

The Armstrong medical NeoFlow ventilator circuit has been tested in conjunction with the Tom Thumb TT480 Infant resuscitator.

	Test at 2 lpm	Test at 5 lpm	Test at 7 lpm	Test at 10 lpm
¹ Out of Packet	2.5 cmH ₂ O	6 cmH ₂ O	12 cmH ₂ O	27 cmH ₂ O
² Max PEEP	10 cmH ₂ O	18 cmH ₂ O	28 cmH ₂ O	* 30 cmH ₂ O
³ Min PEEP	0.4 cmH ₂ O	0.6 cmH ₂ O	1 cmH ₂ O	6 cmH ₂ O

* Limited by precision safety valve.

¹ Out of packet. The PEEP cap was pre-set to half a turn from maximum.

² The maximum PEEP setting was achieved when the PEEP cap was rotated fully clockwise.

³ The minimum PEEP setting was achieved at three full turns anti-clockwise from the maximum setting. The PEEP cap can be rotated further anti-clockwise without further effect. The cap could be pulled off, after minimum PEEP was achieved, but this could not be considered as normal use.

The NeoFlow ventilator circuit has been tested with taper gauges. The 15mm Tom Thumb fitting tested within tolerance. The connection fitted very well when tested on a Tom Thumb.

The 15mm mask fitting was found to be tight but within the tolerance limit. The connection fitted very well when tested with a silicone mask.

The NeoFlow circuit was tested to see if the PEEP setting could fluctuate when the control knob was pushed or pulled. It was found that a small variance of 0.1 cmH₂O could be achieved with this method. The variance would only occur at minimum PEEP. This could not be considered as normal use.

The NeoFlow circuit was tested to see if the PIP setting could fluctuate when the control knob was pushed or pulled. It was found that the PIP could vary significantly when the cap was pressed lightly or firmly. This became more apparent near the minimum PEEP setting.

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	Test at 2 lpm	Test at 5 lpm	Test at 7 lpm	Test at 10 lpm
¹ Out of Packet	0.1 cmH ₂ O	2 cmH ₂ O	2 cmH ₂ O	8 cmH ₂ O
² Max PEEP	0.1 cmH ₂ O	2 cmH ₂ O	2 cmH ₂ O	8 cmH ₂ O
³ Min PEEP	0.0 cmH ₂ O	0.2 cmH ₂ O	0.2 cmH ₂ O	1.9 cmH ₂ O

¹ Out of packet. The PEEP cap was pre-set to half a turn from maximum.

² The maximum PEEP setting was achieved when the PEEP cap was rotated fully clockwise.

³ The minimum PEEP setting was achieved at three full turns anti-clockwise from the maximum setting. The PEEP cap can be rotated further anti-clockwise without further effect.

The cap could be pulled off after minimum PEEP was achieved, but this could not be considered as normal use. This issue was supposed to have been rectified by the manufacturer.

The pressures at all settings were found to be significantly lower than the original sample. These new pressures are not usable. When examined, the outlet hole was found to be considerably larger than the one found on the original sample and is likely to be the cause of the pressure drop.



New sample



Old sample