

Sent from my iPhone

Begin forwarded message:

**From>**

**Date:** 18 April 2014

**To:**

**Subject: 90 cells**

Please see following regarding AP's recommendation when using narked cells!

For your info only!

Cheers

Begin forwarded message:

**From:** Zoe Caines <[zoe@apdiving.com](mailto:zoe@apdiving.com)>

**Date:** 25 March 2014

**To:** "

**Subject: Cells**

Hi #####

Further to our phone conversation, please find below the details on the Narked@90 cells

Use of Narked @ 90 cells in AP rebreathers

It can be demonstrated that Narked @ 90 cells, supplied by Vandagraph, have an undesirable trait when used in AP rebreathers:

Once the scrubber warms up from top to bottom, which is 15 to 20 mins after the start of the dive, the cells read 0.05 bar higher than the actual PO2.

The cells display 1.30 bar ( the setpoint) but the actual PO2 ( measured on a calibrated fast response external analyser) is in fact 1.25 bar.

Diving with a Narked@90 cell can be conducted but it is recommended to make alterations to your decompression:

This can be achieved simply by reducing the High Gradient factor by 5. If you use 90 normally – use 85; if you use 85 normally – use 80 etc.

Trimix Deco Software	APD12 GF High Value	Narked@90 GF High Value
	95	90
	90	85
	85	80

If you have Nitrox decompression software you can achieve the same decompression safety level by changing the Conservatism level:

Nitrox Deco Software	APD12 Conservatism	Narked@90 Conservatism
	1	3
	2	4
	3	5
	4	5

I have put cells onto back order for you – and as I mentioned on the phone we will replace your existing cell as soon as stocks are available.

Many thanks

Kind Regards

Zoe

**Zoe Caines**  
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