



# Technical tip

Date: 2009-02-03

Revision: 1

## Gas mixes - which regulator should I use?

More and more divers are venturing in to the world of mixed gas diving. Trimix, Nitrox and Heliox are words often heard when these divers talk.

But what Poseidon regulator should I, and can I, use when diving with these different gas mixes?

Here's some helpful information.

### Applies to:

- Cyklon 5000
- Cyklon M
- Jetstream
- Jetstream Mk3
- Xstream
- Xstream Mk3

**Trimix** is a breathing gas, consisting of oxygen, helium and nitrogen, and is often used in deep commercial diving and during the deep phase of dives carried out using technical diving techniques

**Heliox** is a breathing gas composed of a mixture of helium (He) and oxygen (O<sub>2</sub>).

**Nitrox** refers to any gas mixture composed (excluding trace gases) of nitrogen and oxygen; this includes normal air which is approximately 78% nitrogen and 21% oxygen, with around 1% inert gases, primarily argon.

### Cyklon 5000



Cyklon 5000

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sub>2</sub> )	X	
Trimix (more then 21% O <sub>2</sub> )		X
Nitrox (more then 21% O <sub>2</sub> )		X
Heliox		X
99,95% O <sub>2</sub>		X



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## Cyklon Metal



Cyklon Metal

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X

## Jetstream / Jetstream Mk3



Jetstream

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



Jetstream Mk3

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



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## Xstream Deep / Deep 90 / Dive 90 / Deep Mk3



Xstream Deep

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



Xstream Deep 90

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



Xstream Dive 90

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



Xstream Deep Mk3

Gas mix	Yes	No
Air	X	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )		X
Nitrox (more then 21% O <sup>2</sup> )		X
Heliox		X
99,95% O <sup>2</sup>		X



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## Xstream Duration / Duration 90 / Duration Mk3 / Deco



Xstream Duration

Gas mix	Yes	No
Air	X*	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )	X	
Nitrox (more then 21% O <sup>2</sup> )	X	
Heliox	X	
99,95% O <sup>2</sup>	X	



Xstream Duration 90

Gas mix	Yes	No
Air	X*	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )	X	
Nitrox (more then 21% O <sup>2</sup> )	X	
Heliox	X	
99,95% O <sup>2</sup>	X	



Xstream Duration Mk3

Gas mix	Yes	No
Air	X*	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )	X	
Nitrox (more then 21% O <sup>2</sup> )	X	
Heliox	X	
99,95% O <sup>2</sup>	X	



Xstream Deco

Gas mix	Yes	No
Air	X*	
Trimix (max 21% O <sup>2</sup> )	X	
Trimix (more then 21% O <sup>2</sup> )	X	
Nitrox (more then 21% O <sup>2</sup> )	X	
Heliox	X	
99,95% O <sup>2</sup>	X	

*\* To avoid contaminating the regulator, regular compressed air should be filtered when used in a Duration / Deco regulator.*