

THE ULTIMATE DIVE REGULATOR



Welcome!

Welcome, new POSEIDON divers. Here at POSEIDON we are very pleased that you have chosen one of the world's foremost diving regulators. POSEIDON has been developing regulators for sport-divers since 1958. Professional divers, military divers, and tech-divers often choose POSEIDON equipment because of the high demands they place on our products - the same demands you have! Your new regulator has been designed to provide you with a life time of pleasure as a POSEIDON diver.

1. Use

All use of diving equipment should be carried out by certified divers, or those in a diver training program under the direct supervision of an instructor and the equipment should be used within the parameters established by the training program. Diving deeper than 50 meters exceeds the limitations of EN250 approval.

Jetstream OP, Jetstream and Cyklon can be used in all sea water temperatures without modifications. In water temperatures under +6°C POSEIDON an anti-freeze cap is recommended to be used in order to avoid the build up of ice in the spring-chamber of the first stage. The anti-freeze cap must be completely filled with pure alcohol or a mixture of glycol and water in equal portions.

Jetstream OP, Jetstream and Cyklon should always be used in combination with either a pressure gauge, a reserve cylinder valve, or some other active safety equipment which indicates how much air remains in the tanks.

2. Assembly and preparation

The procedure described below only describes the manner in which the regulator is assembled, and does not replace all of the various procedures you have learned in your diving training program.

- 1) Carefully open the cylinder valve, using air flow to clear the outlet, then close the valve.
- 2) Remove the protective cap on the first stage.
- 3) Check that the O-ring on the regulator's connection is intact and mount the regulator on the cylinder valve. Turn the DIN-wheel/yoke-knob

until you feel that the regulator is securely fastened.

- 4) Slowly open the cylinder valve all the way, then turn the knob back one-half turn.
- 5) Press a few times on the purge button on the second stage so as to blow out possible debris.
- 6) Check the pressure gauge to see that the tank is full.
- 7) Test breathe through the regulator and the octopus. If the air smells or tastes bad do not dive with it.

You are now ready to dive with the regulator.

3. When diving

What is most distinctive about the Jetstream OP, Jetstream and Cyklon is that they are easy to use – there aren't any valves or switches to change the flow of air, breathing resistance, etc. You can leave the function and performance of the regulator in our hands and concentrate on what you want to do - dive. Jetstream OP, Jetstream and Cyklon allows for ease of breathing and supplies air in a reliable manner.

Jetstream (USA=Odin) is fitted with a switch with + and - positions. Since this regulator has extremely low inhalation resistance and high air flow, it can permit air to flow freely when not held in the mouth. During diving and long-term storage, the switch should always be set to the + position.

In Octopus use (extra second stage valve) or for surface swimming, where you are not holding the 2nd stage in your mouth, the switch should be in the - position.

4. After diving and disassembly

The regulator should always be rinsed while it is still mounted on the tank. The regulator should be under pressure, otherwise water can enter either the first or the second stage and cause the build up of ice during your next dive!

- 1) The regulator should be rinsed in fresh water after every dive so as to avoid salt crystal formation around the functional parts.
- 2) Blow the equipment dry by using air pressure. Use POSEIDON blowgun.
- 3) After rinsing, close the cylinder valve and purge the regulator.
- 4) Unscrew the regulator from the tank and mount the protective cap onto the connection.
- 5) Pack and store your regulator in your regulator bag. This protects the regulator from damage. It is especially important to protect the connection areas.

The regulator should not be stored in direct sunlight and/or at high temperatures.

5. Your safety

It is extremely important for your safety that you keep your equipment in good condition. While you can do some of the maintenance on your own, other maintenance procedures can only be carried out at one of POSEIDON's authorized service locations. Look for the POSEIDON Authorized Dealer sign. Modifications of the product are prohibited.

5.1 What you do yourself

After every dive the equipment should be cleaned according to the instructions in "After diving and disassembly."

The regulator does not have to be lubricated beyond what is done by POSEIDON.

5.2 Annual service

The regulator should be serviced annually. The regulator should only be serviced with original POSEIDON parts. The service should be documen-

ted on the last page of this manual with the date, the nature of the service, the local service center's stamp and/or signature.

5.3 Breathing gas

Water in the tank is the most common cause of freezing regulators. Jetstream OP, Jetstream and Cyklon should be used with gas according to EN 132, Annex A.

5.4 Worth thinking about

When opening the cylinder valve, do not direct the stream of air at anyone. It can cause serious injury. Always exercise caution with diving equipment. Remember that pressure at 200 bar on a surface the size of a fingernail has the power of approximately 350 kg/770 lb.

Diving is a strenuous physical activity. Its difficulty may be increased by conditions such as cold water, poor visibility, hard work, and increased depth. Always try to exercise prudent judgement when determining whether or not to dive. Never dive when tired or in poor health.

6. Accessories

The use of accessories which have not been recommended can seriously impair the function of your equipment.

Pressure-gauge hoses without a restriction in the connection can, if the hose is punctured, allow a powerful jet of air to escape.

Jetstream OP, Jetstream and Cyklon can be combined with the following equipment / accessories:

- Jetstream Octopus, Cyklon Octopus
- All EN 250 designated cylinder valves
- Yoke clamp
- Swivel connection 90° 3/8" for Interstage Pressure (IP) hose
- Banjo connection 90° 7/16" for pressure-gauge hose
- POSEIDON anti-freeze cap (#1286)
- All EN250 approved pressure-gauge hoses
- Pressure gauge and diving computer as long as they are connected with EN250 approved pressure-gauge hoses

- All EN250 approved IP hoses
- POSEIDON original connections for adaptation of different thread dimensions
- Inflator hose 3094, 3095

7. Miscellaneous

Viton o-rings which have been exposed to fire must not be handled or used as they may have developed hydrofluoric acid which can cause serious injury.

A regulator is primarily constructed of brass and recyclable plastic, both of which can be reused.

Do not use cleaning chemicals of any kind to clean the regulator. Neither may silicone or any other lubricant be poured or sprayed into the regulator.

Interstage pressure (IP) and safety valve opening pressure is preset by POSEIDON and readjustment is prohibited. Readjustment of IP will never boost performance.

8. Product markings

Jetstream OP, Jetstream, Cyklon and Octopus are marked with CE 0120 and EN 250. The markings show that the product meets or exceeds the requirements of the Personal Protective Equipment Directive 89/686/EEC and the harmonized standard EN 250:1993 for SCUBA equipment.

9. Support

When you purchase a POSEIDON product you receive access to thousands of authorized service outlets world wide. More information can be found on POSEIDON's homepage www.poseidon.se

EU Type Approval by:

(Jetstream, Cyklon)
 FIOH
 Laajaniityntie 1
 FIN-01620 Vantaa
 FINLAND
 Notified body no.: 0403

(Triton)
 SGS YICS Ltd
 Unit 202B, Worle Parkway
 GB - Weston - Super - Mare
 -
 BS22 OWA
 UNITED KINGDOM
 Notified body no.: 0120

11. Technical Specifications

	Jetstream/Octopus	Cyklon/Octopus
Inner volume	80 ml (cc)	60 ml (cc)
Total weight	1010 g (2.23 lb)	980 g (2.16 lb)
2nd stage weight	190 g (6.70 oz)	200 g (7.05 oz)
Maximum 2nd stage flow @ 300 bar*	1600 l/min	1050 l/min
Maximum supply pressure	300 bar (4350 PSI)	300 bar (4350 PSI)
Interstage pressure @ 300 bar*	8.5-9 bar (123-130 PSI)	12.0 bar** (174 PSI)
Maximum working pressure IP hose		35 bar (507 PSI)
Burst pressure IP hose		100 bar (1450 PSI)
IP hose length		700mm/900mm (27.5"/35.4")
1st stage connection		G5/8" according to SS 2600/K and Din 477/5 or Yoke-system
Anti-freeze medium		Alcohol or glycol/water 50/50
IP outlets (4)		UNF 3/8". One outlet is marked R for primary 2nd stage
HP outlets (2)		UNF 7/16"
Article number	3960/DIN 4950-BK Jestream OP (2nd stage w hose) 3960-10/Yoke 2970/Octopus	3950/DIN 3950-10/Yoke 2981/Octopus
1st stage safety valve opening pressure		16-20 bar (232-290 PSI)
O-rings		NBR HITEC®
Grease		Oxygen-grease Gleitmo 594
Materials cone,		chrome-plated brass, ASA, stainless-steel, sili- EPDM, TPE, TPU, Teflon (PTFE), PEEK

* figures are nominal, minor individual differences can occur. Figures can also be strongly dependent on method of measure-



POSEIDON DIVING SYSTEMS :: ÅKEREDSVÄGEN 1 :: BOX 8050 :: S-421 08 VÄSTRA FRÖLUNDA :: SWEDEN :: TEL: +46 31 734 29 00 :: FAX +46 31 734 29 03