

## Product Bulletin

30126 A01

### Divator DP1 Surface Supply with Bend Protection

LIDINGÖ April 15, 2008

#### ANNOUNCEMENT

To increase the robustness of the connection points on the Divator DP1 supply lifeline hose, Interspiro has designed a new bend protector.

This bend protector increases the strength of the connection points between the high pressure hoses and the different connection points on the DP1 surface supply diving system.

#### APPLIES TO

Divator DP1 supply lifeline hoses.

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#### BACKGROUND

There is a risk for rupture in the supply lifeline hose in cases where the configuration is not in accordance with the design described in the Divator DP1 Surface Supply User Manual, or in cases when the product have not been handled in accordance with the instructions in the User Manual.

A few incidents have been reported where supply lifeline hoses without bend protectors has ruptured at the regulator attachment.

Likely causes to these ruptures are that the umbilical relieving loop, which is attached to the diver's safety belt / harness, has been located in such a way that there is no slack left in the hose, between the relieving loop and the regulator connection point. Bending forces from the umbilical can then be transmitted to the hose fitting at the regulator end causing stressing of the hose (*see illustration 1*).

Severe kinking of a hose without bend protectors is also possible when the hose direction is looped back on itself (*see Illustration 2*).

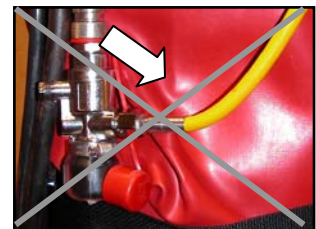


Illustration 1



Illustration 2

#### USER INSTRUCTIONS

##### Preparing the diver

When preparing the diver, observe the following part of the Divator DP1 User Manual (96708, page 10 section 1.4.1):

*“The diver and attendant are both responsible for securing the high pressure lifeline hose. Assure that the high pressure lifeline hose does not get kinked or severely bent. This is very important and must be carefully checked.”*



Examples of relieving loop attachment to the life belt

## UPGRADE ACTIONS

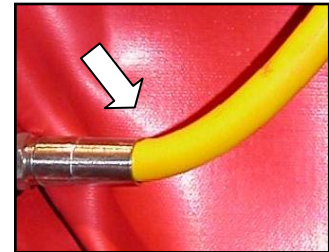
Interspiro now offers a hose bend restrictor kit that will reduce the risk for kinking damage on the supply lifeline hose. This bend protection can be retrofitted to the supply lifeline hose without the need to return the hose to Interspiro.

NOTE: Only service technicians certified by Interspiro are allowed to perform this upgrade.

### Check the supply lifeline hose

Before upgrading a Divator DP1 surface supply system with bend protectors, carefully check the hose and connection nipple at the pressure regulator. The hose shall show no signs of kinking at the surface close to the connection nipple i.e. surface ripples or obvious sheath damage.

If signs of kinking are found the hose should be returned to Interspiro for testing and possible re-termination.



### Pressurizing the supply lifeline hose

Interspiro recommends that this pressurizing procedure is followed even after an upgrade with bend protectors has been done:

- Pressurize the supply hose when it is still wound on the winding frame (or equivalent).
- Let the supply hose settle for at least one minute to avoid exposure to a possible high pressure leakage.



P+ regulator with bend protector

## SPECIAL NOTE

Even after an upgrade with bend protectors, the handling of the DP1 surface supply lifeline hose must be done carefully, taking the procedures described in this bulletin and in section 1.4.1 in the Users manual into consideration.

## ORDERING INFORMATION

### ► Hose Bend Restrictor Kit, Part No. 460 190 917:

The kit includes:

- 2 bend protectors
- 2 o-rings

### ► Mounting tool for Bend Protection, Part No. 88 233-01:

Including "Mounting Instruction" document (No. 30029 A01).

Note: This tool must be used when mounting bend protectors.



Hose bend restrictor kit

INTERSPIRO GROUP  
Lidingö, Sweden