



## Technical Bulletin 06012020

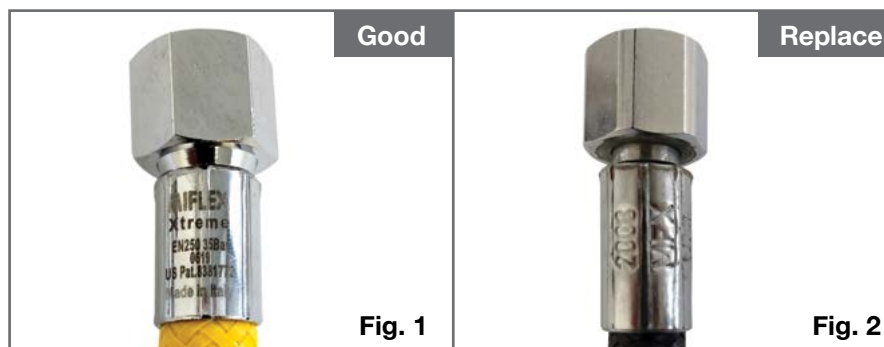
### Miflex Hoses and Crystallized Hose Interiors

In the last few years, the dive media, as well as the Dive Alert Network (DAN), has shined a spotlight on a potentially hazardous situation where nylon braided regulator hose interiors can crystallize, resulting in the possibility of crystals dislodging and creating an obstruction in the regulator.

Miflex, the largest producer of nylon braided hoses in the world, and XS Scuba, their North American distributor, want to provide details on this situation to put minds at ease.

#### Hoses Made Since August 2009

Beginning in August 2009, Miflex laser-etched their name and the hose manufacturing date on every hose they made (Fig. 1). **To date, there has never been a Miflex hose, with this laser-etching, found with a crystallized inner liner.** This represents 11 years of trouble-free service. This has been achieved through strict quality control as well as the use of the best TPU material to form the inner liners.



*Regulator hoses with laser-etched fittings are good. No action is required.*


*Regulator hoses with MFX stamped into their fittings should be replaced.*

#### Hoses Made in 2007 through Aug 2009

Miflex hoses made in 2007, 2008 and H1 2009 were not laser-etched on the fittings. Instead, they were stamped MFX, along with the year of manufacture (Fig. 2). A small percentage of hoses from this era have exhibited crystallization of the inner liner.

These hoses are a concern for multiple reasons:

1. Since stamping hose fittings is easy and inexpensive to do, Miflex has found counterfeit hoses, made by others, that have MFX stamped on them. For the untrained eye, it is difficult to identify these hoses as counterfeit. Unfortunately, these counterfeit hoses are known to exhibit crystallization on the inner liners.
2. In the early days of Miflex, inner liner material came from different sources. Unfortunately, Miflex is not able to identify which hoses used which material source. Miflex suspects that a small percentage of hoses from this era, could have been produced from material with the potential to crystallize.



Like tires on a car, regulator hoses are considered a consumable item. They wear and need to get replaced. Hoses from the 2007-2009 should have been replaced by now, regardless of who made them. They have outlived their useful life.

The purpose of this bulletin is to advise owners of these older hoses to get them replaced. To provide an incentive, XS Scuba is making a one-time offer to replace any 2007 - 2009 nylon braided hoses, with MFX stamped on the fittings, for 75% off retail price with shipping included.

**Dealers:** Fill in your dealer account # on the attached Miflex Hose Claim Form. Send us the form, along with your affected hose(s), and we will transact the replacement hoses through your account.

**Customers:** Fill out the attached Miflex Hose Claim Form and the attached Credit Card Authorization Form. Send both forms along with your affected hose(s), and we will ship the new hose(s) directly to you.

# Miflex Hose Claim Form

For Miflex Hoses manufactured in 2007 through Aug. 2009  
As identified in Technical Bulletin 06012020

This is a supplemental form to Technical Bulletin 06012020 offering to replace certain Miflex hoses for 75% off retail price.

If you have one of the hoses identified in the Technical Bulletin, fill out page 2 of this form in its entirety. Submit it, along with the Credit Card Authorization Form and your Miflex hoses to:

XS Scuba, Inc.  
c/o Miflex Hose Replacement  
4040 West Chandler Avenue  
Santa Ana, CA. 92704

Send suspect low-pressure braided hoses only, detached from regulator and gauge. Replacement hoses will be shipped, freight prepaid, within 2-3 weeks of receipt of your returned hose. Canadian addresses add US \$5.00.

Part #	Overall Length	Color	Retail	Retail Minus 75%
MLP22-BK	22"	Black	42.00	10.50
MLP24-BK	24"	Black	42.00	10.50
MLP26-BK	26"	Black	44.00	11.00
MLP26-BU	26"	Blue	44.00	11.00
MLP30-BK	30"	Black	46.00	11.50
MLP30-BU	30"	Blue	46.00	11.50
MLP30-CN	30"	Carbon	46.00	11.50
MLP30-PK	30"	Pink	46.00	11.50
MLP30-PR	30"	Purple	46.00	11.50
MLP30-RD	30"	Red	46.00	11.50
MLP30-WH	30"	White	46.00	11.50
MLP30-YL	30"	Hi-Vis Yellow	46.00	11.50
MLP36-BK	36"	Black	46.00	11.50
MLP36-BU	36"	Blue	46.00	11.50
MLP36-MY	36"	Mellow Yellow	46.00	11.50
MLP36-YL	36"	Hi-Vis Yellow	46.00	11.50
MLP40-BK	40"	Black	48.00	12.00
MLP40-BU	40"	Blue	48.00	12.00
MLP40-GN	40"	Green	48.00	12.00
MLP40-MY	40"	Mellow Yellow	48.00	12.00
MLP40-YL	40"	Hi-Vis Yellow	48.00	12.00
MLP44-BK	44"	Black	50.00	12.50
MLP48-BK	48"	Black	52.00	13.00
MLP60-BK	60"	Black	58.00	14.50
MLP84-BK	84"	Black	68.00	17.00
MLP84-BU	84"	Blue	68.00	17.00
MLP84-YL	84"	Hi-Vis Yellow	68.00	17.00

CA. residents will be charged the appropriate sales tax.

For more info or questions email: [Info@XSscuba.com](mailto:Info@XSscuba.com)



## Miflex Hose Claim Form

*For Miflex Hoses manufactured in 2007 through Aug. 2009  
As identified in Technical Bulletin 06012020*

Name: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Email: \_\_\_\_\_

If Store Return, Dealer Name: \_\_\_\_\_ Account #: \_\_\_\_\_

Hoses Returned:            Length: \_\_\_\_\_ Color: \_\_\_\_\_

                                 Length: \_\_\_\_\_ Color: \_\_\_\_\_

                                 Length: \_\_\_\_\_ Color: \_\_\_\_\_

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**FOR OFFICE USE ONLY**

**Date Recieved:**

Model (rec'd): \_\_\_\_\_ Quantity: \_\_\_\_\_ Replaced With: \_\_\_\_\_

Model (rec'd): \_\_\_\_\_ Quantity: \_\_\_\_\_ Replaced With: \_\_\_\_\_

Model (rec'd): \_\_\_\_\_ Quantity: \_\_\_\_\_ Replaced With: \_\_\_\_\_

Model (rec'd): \_\_\_\_\_ Quantity: \_\_\_\_\_ Replaced With: \_\_\_\_\_

Sales Order #: \_\_\_\_\_ Processed By: \_\_\_\_\_



## XS Scuba, Inc. Credit Card Authorization Form

This form is used to authorize XS Scuba, Inc. to bill a charge to your credit card for a purchase with us. Please fill out this form completely and return it to us, either by email or by fax.

**XS Scuba, Inc.**  
4040 W. Chandler Avenue  
Santa Ana, CA 92704

**Fax #**  
714 424-0454

**Your Name:** \_\_\_\_\_

**Phone Number** \_\_\_\_\_

**Credit Card Information:**

Type:  Preferred  VISA  MasterCard  Also accepted  American Express  Discover

Account # \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Security Code \_\_\_\_\_ (VISA, MC, DISC: last 3 digits located on signature panel)  
(AMEX: printed on front side of card above account #)

Name on Card: \_\_\_\_\_

**Billing Address** (where you receive your credit card statements):

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**Shipping Address:**

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**Cardholder Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_