TUBIFLEX S.p.A. Flexability!

a member of INTERPUMP GROUP

TECHNICAL NOTE

PROTEX 03

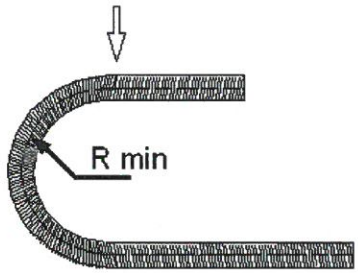
EQUIPMENT:	**PROTEX BULK HOSES**	
TUBIFLEX P/N:	**PX.T.XXXX.XX.XXX**	***(TUBIFLEX)***
CUSTOMER P/N:	**All applicable**	***(CUSTOMER)***

Prepared by	*Checked by*	*Approved by*	*Approved by*
Design Engineering Dept.	Design Engineering Dept.	Design Engineering Dept.	
Luca Matteodo	*Ugo Ruffino*	*Luca Montacchini*	

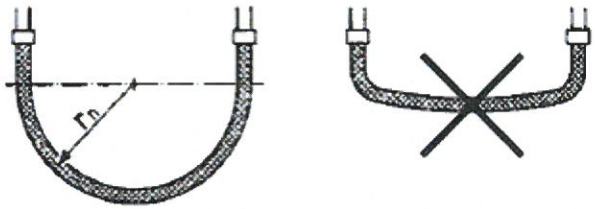
GOOD PRACTICE FOR PROTEX HOSE USE

The proper installation and use of PROTEX allows to achieve maximum performance and ensure longer life of the hose. To do this, follow some simple advice:

- Do not overbend the hose, respect the minimum bending radius reported in the datasheet.



- If the media transported is abrasive (dust, granules, seeds, etc.) it is possible that these grains impacting with the hose wear it. Under these conditions, it is recommended that you reduce flow speed, thereby reducing the abrasive effect of the media.
- Where hose is bent the abrasive effect of transported substances is increased. For this reason, it is advisable to carry out straight installations or at least with very wide curvature radius, to facilitate the flow inside the hose. Localized bends must be avoided.



- Respect flow direction reported in the datasheet when specified.
- In case of the transport of small particles like dust, it is possible that they accumulate between the interlocked profile. For such media we strongly recommend avoiding dynamic applications because the relative movement between the profiles combined with the abrasive action of the dust can lead to a drastic reduction in the hose life.
- When handling the hose avoid dragging it on the ground as the abrasive action of the floor could compromise the functionality of the hose.
- For the hose handling please look at technical note: TN_PROTEX_01
- For the hose cutting and joining please look at technical note: TN_PROTEX_02

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TECHNICAL NOTE

PROTEX 02

EQUIPMENT:	**PROTEX BULK HOSES**	
TUBIFLEX P/N:	**PX.T.XXXX.XX.XXX**	***(TUBIFLEX)***
CUSTOMER P/N:	**All applicable**	***(CUSTOMER)***

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Recommended Cutting Instructions for fully interlocked hose PROTEX

PHOTO A

How to cut the interlocked hose length without affecting the hose interlocking integrity?

We suggest to use a punch tool as shown in this photo A and nick the hose as shown in photo B.

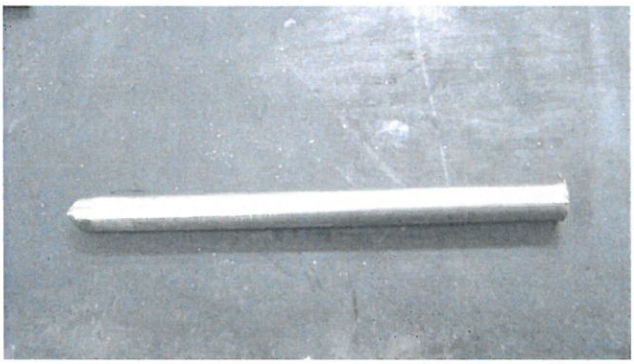


PHOTO B

In proximity of the section to be cut, you shall perform 4 nicks by punch and hammer.

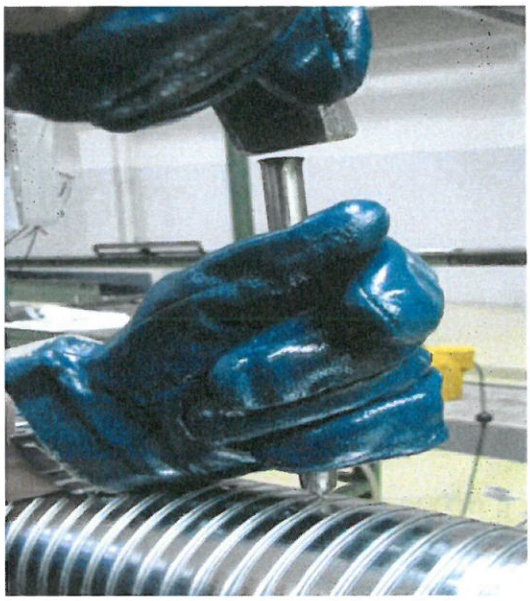
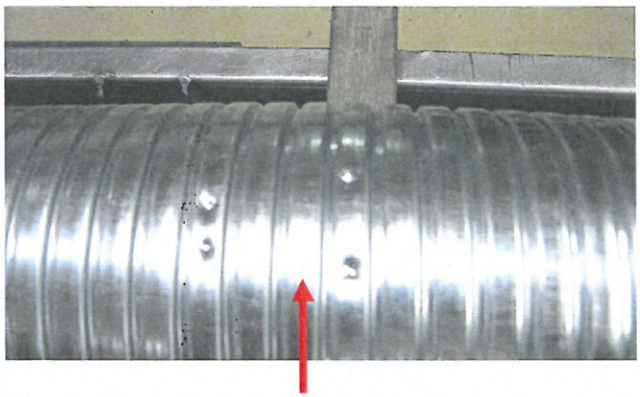


PHOTO C

As shown in the photo the surface will result indented by the punching. These nick points keep the hose interlocked and prevent rotation during the cutting phase.



The cutting shall be executed in between the 2 couples of nicks.

PHOTO D

To cut the hose at our premises we use an electrical manual band saw with a very sharp blade to avoid deformation of the hose surface.

PHOTO E

This way the kerf will result linear.

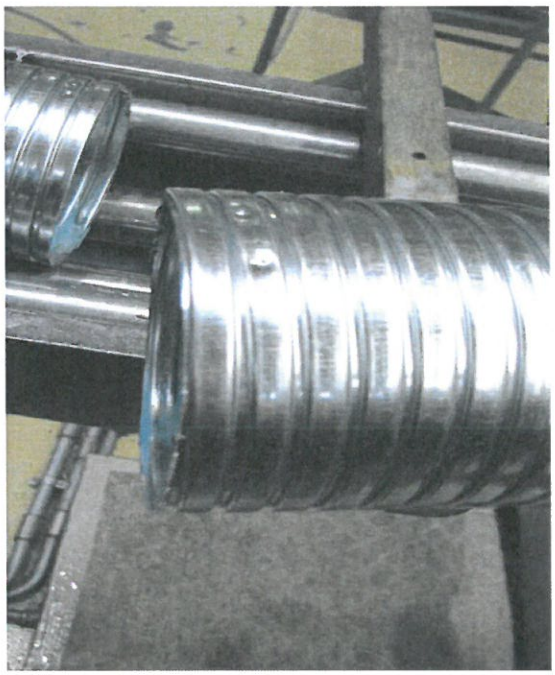


PHOTO F

By means of a spot welder we perform 2 welding spots beyond the nicks . We mean that the punch nicks shall be left close to the cutting.

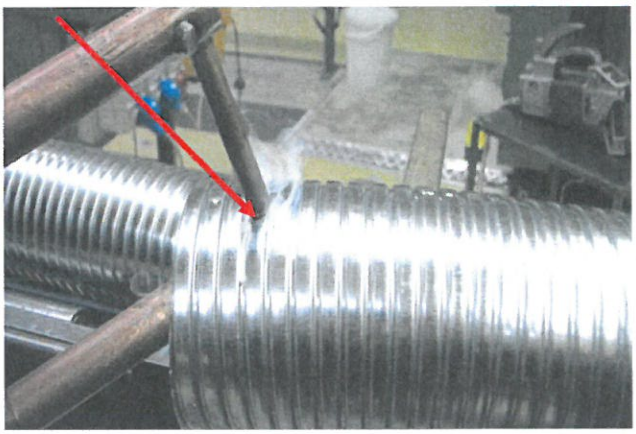
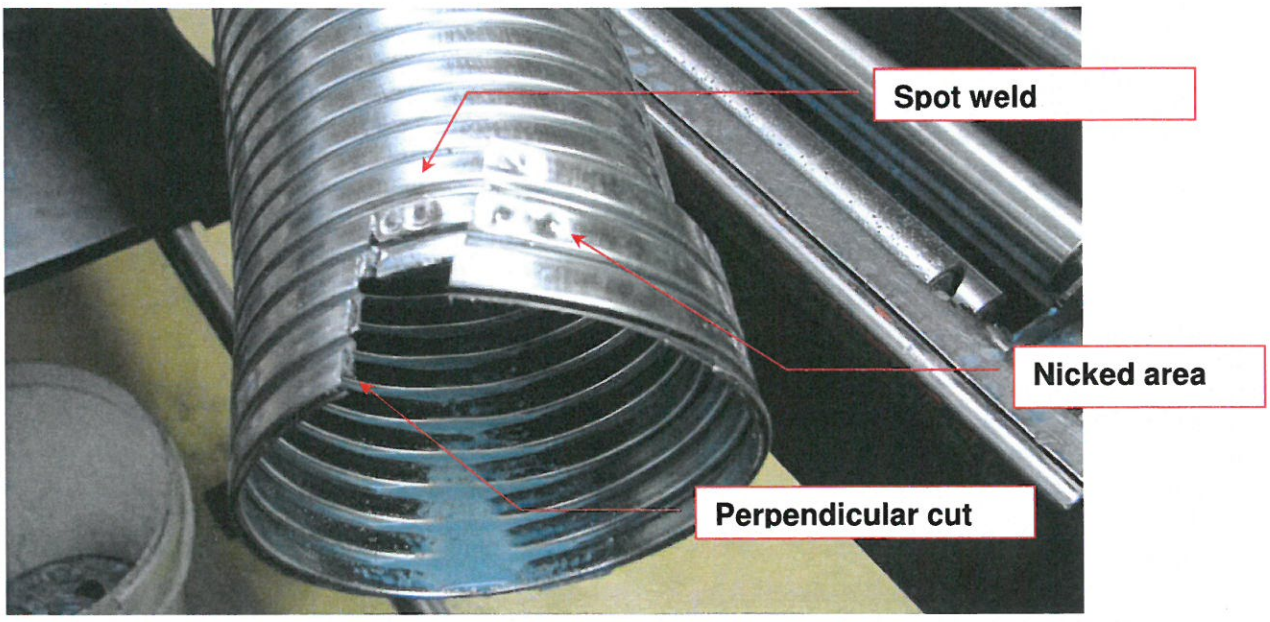


PHOTO G

Finally we cut perpendicularly and eliminate the section where we had performed the nicks. The weld spot does not allow the hose to open (to unlock).



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TECHNICAL NOTE

PROTEX 01

EQUIPMENT:	**PROTEX BULK HOSES**	
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CUSTOMER P/N:	**All applicable**	***(CUSTOMER)***

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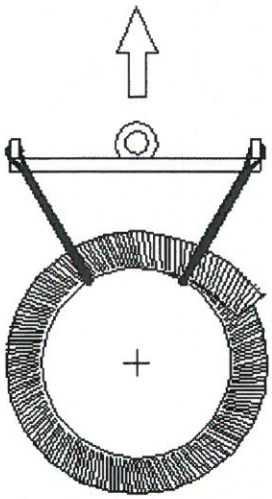
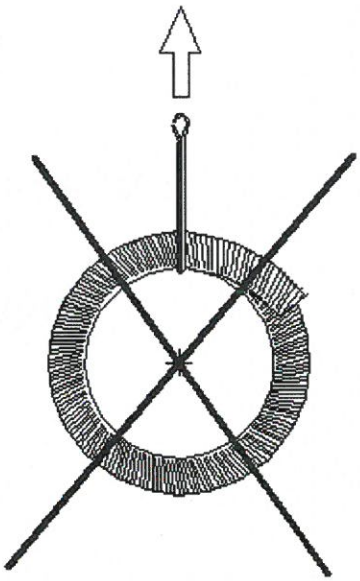
PROPER HANDLING OF PROTEX FULLY INTERLOCKED METAL HOSE

Instructions to properly lift the coils for DN > 50

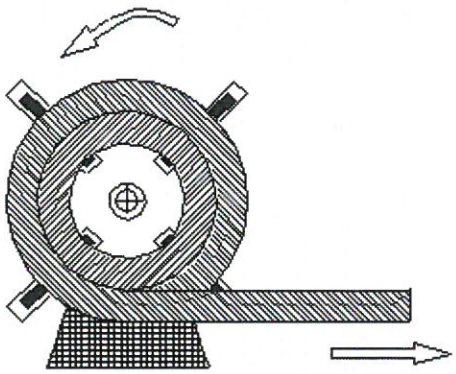


YES

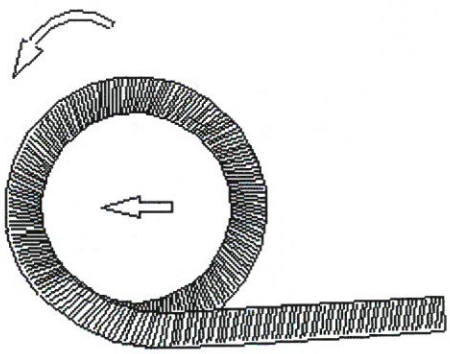


NO

Instructions to properly uncoil the length

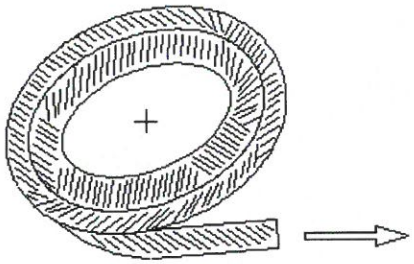


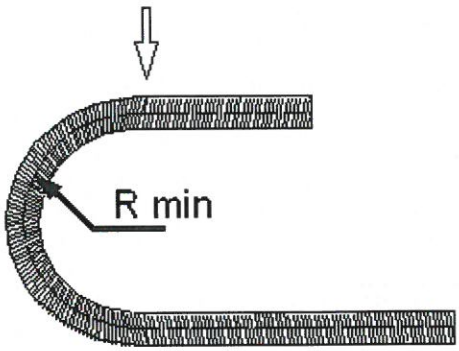
YES



YES

Avoid any torsion of the hose while unwinding



NO

While bending the hose do not exceed the minimum bending radius detailed in our catalogue