Assembly instruction Connlock®

Reusable Hose Connection Type Connectors MR-DN

Assembly instruction Connlock I Printed 2005 I Published by: Connectors Verbindungstechnik AG, Ringstrasse 24, CH-8317 Tagelswangen I reserve subject to change without notice

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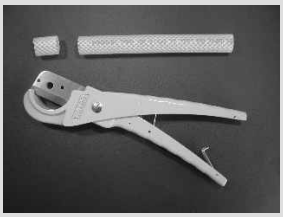
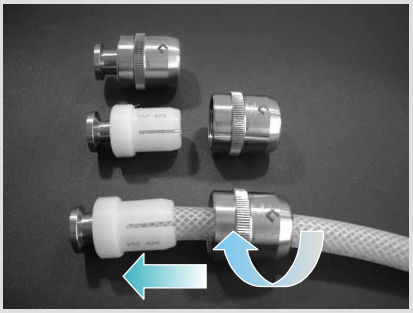
Step 1



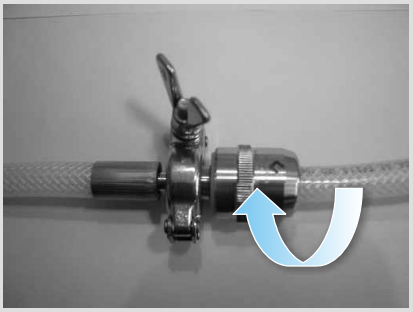
Use a pair of hose scissors to cut the hoses. As an alternative a Stanley knife my be of great service. Be sure to use it with a new, sharp blade to ensure a proper rectangular cut.

Step 2



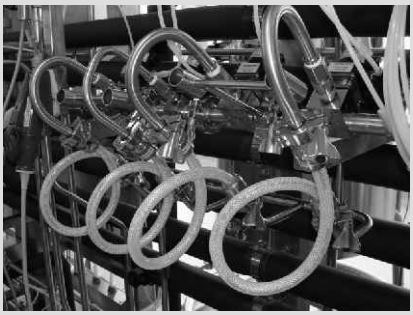
Take apart the nut and push the hose through it. Push the nipple into the hose until it touches the edge of the PVDF sleeve.
->Do not use any lubricant. For easier assembly it is allowed to use pure alcohol.

Step 3



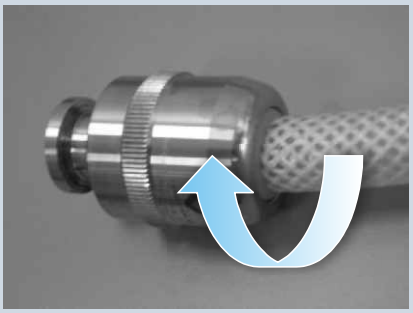
Screw the nut onto the PVDF-sleeve. Tighten the nut with your hands only to prevent the sleeve from being tightened too much. Do not use any tools to mount the nut. After having mounted the complete tri-clamp connection the nut can be tightened by hand once more. Do not tighten too much. Otherwise the sleeve may be dammaged.

Results



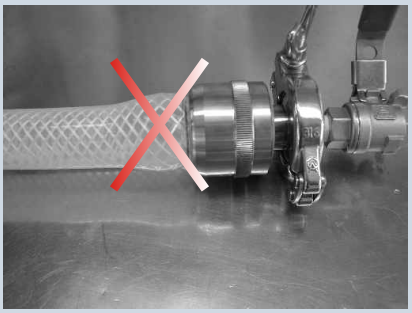
Follow these instructions carefully and a succesful application of the Connlock reusable fitting is guaranteed!

Remarks



The following points must be considered to ensure an unproblematic operation:
The nut must be tight at any time! An unproperly tightened nut may cause a lower compression on the hose. As a result the hose may leak or even burst. We therefore recommend to check the nut regularly. However, it is essential to check it after the first application under pressure or after the first sterilization cycle.

Remarks



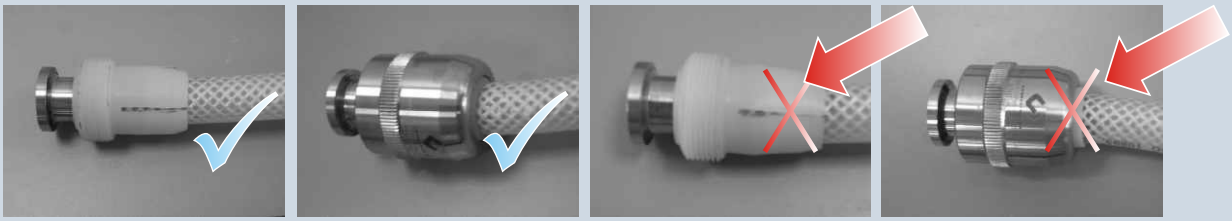
The following points must be considered to ensure an unproblematic operation:
The recommended operation pressure and temperature must be taken into consideration. Any unproper operation may lead to an over-strain or bursting of the hose. The following situation must absolutely be avoided!

Remarks

The following points must be considered to ensure an unproblematic operation: Connlock MR-DN
Connlock reusable fittings MR-DN have been developped for the use with silicone hoses of the type STHT-R and STHT-W. Connectors rejects any guarantee for hoses from other suppliers. STHT-R hoses that have already been under considerable pressure (which means above safe working pressure) are weakened. In this case the recommended working pressure must be reduced by 15%. For safety reasons we still recommend to exchange the hose.

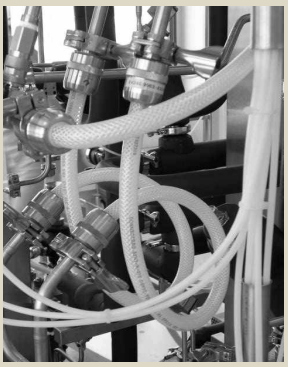
The following points must be considered to ensure an unproblematic operation: Hose Tye STHT-C / STHT-W
Silicone hoses may be sterilized with steam at a temperature of 135°C and under pressure of 3,2 bar. We recommend a max. duration of the cycle of 90 minutes at 135°C. The hose should be kept 3 hours at room temperature between several sterilization cycles to reach the required stabilization. Steam affects the mechanical as well as the voluminal properties of the silicone elastomer. After 150 hours of steaming (not continuos steaming) we recommend a throughout inspection of the hose in use.

Remarks: defective sleeves



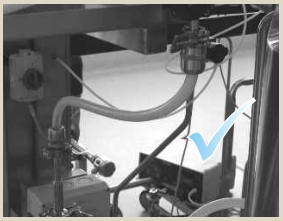
Over-tightened or dammaged sleeves cannot transmit a sufficient compression and must therefore be exchanged.

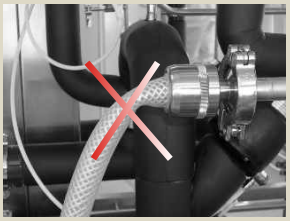
Installation: important advice



Important advices:
Hoses are made for the transport of liquid and gaseous media. The following situations must absolutely be avoided: unproper mounting of the reusable hose fitting, dammage of the tri-clamp sealing surface, non observance of the bending radius of the hose, exceeding pressure and temperature (see technical data sheet of the Connectors silicone hoses, dammage of the outer surface of the hose.

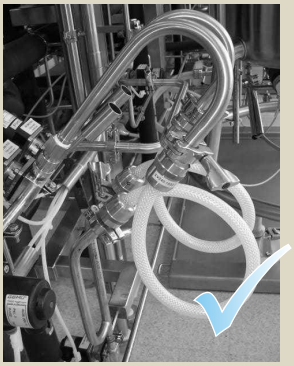
Installation: Example 1

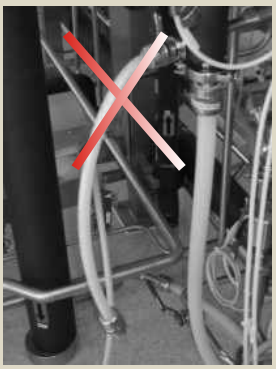




Do not exceed the natural bending radius and avoid sharp bends of the hose.
-> See min. bending radius in the technical data sheets.

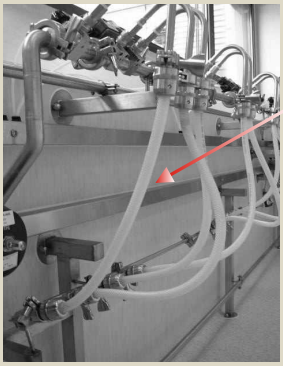
Installation: Example 2





Do not exceed the natural bending radius and avoid sharp bends of the hose.
See min. bending radius in the technical data sheets.

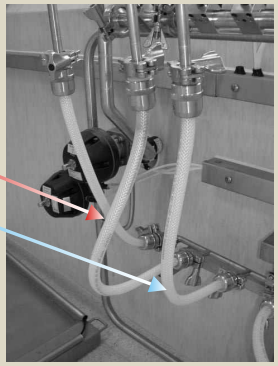
Installation: Example 3



to short

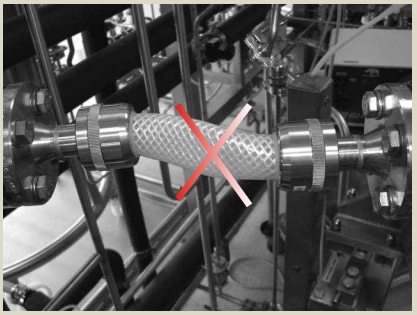
too long

right



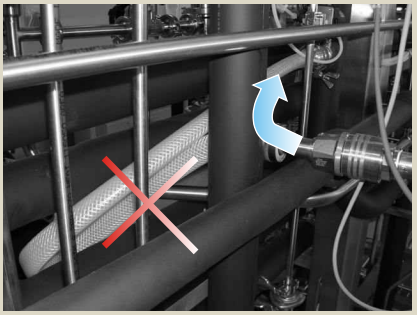
It is absolutely necessary that the hoses are mounted without any force, i.e. do neither pull nor press while mounting. The optimum length of the hose is to be determinded considering ist bending radius..

Installation: Example 4



Do not use STHT-R hoses for vacuum applications. For all processes creating vacuum use the Connectors STHT-W hose.

Installation: Example 5



If the process cannot be modified: use STHT-W hoses