



DHATEC®

Assets In Transit Deserve Optimal Care

Dragonder 19, 5554 GM
Valkenswaard, The Netherlands

Tel +31 497 542 527
Email info@dhatec.nl
Web www.dhatec.nl



Application Procedure Specification Dhatec PVC Plug with Bevel Protector

Dhatec Document No.: DHA415-APS-PLVC

Rev.	Date	Status	Prepared by	Reviewed by	Approved by
00	18.10.2016	For Construction	D. Neutkens	C. Kouamé	C. Kouamé
01	31.11.2016	For Construction	D. Neutkens	M. Hol	N. Kuijper
02	29.01.2018	For Construction	M. Voets	M. Bayens	M. Bayens
03	03.01.2020	For Construction	M. Bayens	B. Coenen	M. Bayens

©Dhatec BV. The following document shall be considered as copyright and the design right reserved. Copying and/or disclosure of the information contained within the following document to any third-party, other than specifically for the purpose of the project is forbidden without prior written permission of the proprietor.

Change Record

Rev.	Description of Revision
00	First Issue
01	Position of the opening in the rubber tendon
02	Font style
03	Explanation diameter allowance (fig 6)

General Information

Equipment	PCV Plug with Bevel Protector
Supplier Name	Dhatec B.V.
Telephone No.	+31 497 542 527
Website	www.dhatec.nl
Contact email address	info@dhatec.nl

Disclaimer of liability: Every effort has been made to ensure that the information in this document is accurate and correct to the best of our knowledge, correct at the date of publication. However, Dhatec B.V. cannot be held responsible for consequences that follow from the claims that were made in this document.

Do not carry out any repairs or modifications on the equipment without consulting Dhatec B.V., doing so will invalidate the guarantee. The guarantee is also invalidated if accidents and damage of any form are caused as a result of improper use and/or not obeying the warnings in general as explained in this user guide. Dhatec B.V. accepts no responsibility for any personal accidents as a consequence of not following the safety instructions and warnings. This is also the case for consequential loss in any form.

Safety Requirements

These are general guidelines, all personnel involved should adhere to the safety requirements of the particular location at which they are performing their operations.

Dhatec recommends wearing of suitable PPE while handling their products. This includes gloves, safety shoes, safety glasses, safety helmet, hearing protection and suitable work clothing.

The working areas should be kept tidy at all times in order to minimize the risk of trips and slips.

All personnel involved should use suitable manual handling techniques and follow industry recommended guidelines for lifting and moving, such as those described in "Ergonomic Guidelines for Manual Material Handling" published by the National Institute for Occupational Safety and Health (Publication 2007-131), or those otherwise prescribed by the client.

Required Equipment

The equipment needed to apply and remove the PVC Plug with Bevel Protector is Dhatec Clamping Tool Bevel Protector and /or Dhatec Bevel Protector Toolset. Also, the Dhatec Third Hand Tool can be used.

Item No.	Tool elements	Function
1	Operating switch	Plugtivating the compression process
2	Compression cylinder	Working unit for holding the jaw set
3	Protection	To avoid finger trapping
4	Battery	Rechargeable Li-ion battery
5	Battery locking	Release knob for battery
6	Jaw set	Jaw set for Clamping Clip

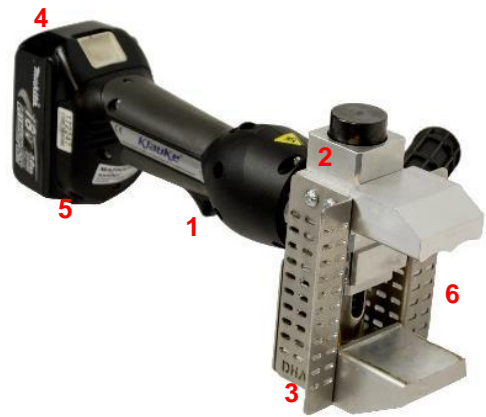


Figure 1. Clamping Tool Bevel Protector



Figure 2. Bevel Protector Toolset



Figure 3. Third Hand Tool

Installation of the PVC plug with Bevel Protector

Please read these instructions before applying the PVC plug with Bevel Protector.

Placing the PVC Plug with Bevel Protector in the pipe end

Place the PVC Plug into the pipe end. Make sure it fits as straight as possible. An advice is to make sure the opening in the rubber tendon is placed in the pipe at the “6 o’clock position” (fig 4&5). Fold the tarpaulin patch zig-zag to reduce the plug circumference (fig 6). Note the plug is always a bit larger than the pipe to allow pipe tolerance.

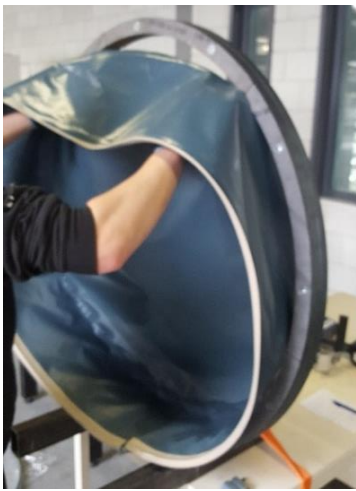


Figure 4. Placing the Plug



Figure 5. Push the Plug in



Figure 6. Fold the tarpaulin

Place the Bevel Protector inside the PVC Plug. Make sure that the tops of the PVC Plug and the Bevel Protector connect tightly with the pipe end. When this is reached, place the Third Hand Tool over the parts. Adjust the tool as such that the two handle bars are parallel when you release it (fig 8). Also check if the beak of the tool connects with the Bevel Protector (fig 8, arrow).



Figure 7. Place Bevel Protector



Figure 8. Place Third Hand Tool correctly



Figure 9. Third Hand Tool in place

Applying the Clamping Clip in the Bevel Protector

Lift the right side of the Bevel Protector slightly out of the pipe and fit the Clamping Clip diagonally in between both lips (fig 10, 11&12).



Figure 10. Lift right side



Figure 11. Place Clamping Clip diagonally



Figure 12. Place Clamping Clip diagonally

Push from below, in front of the Bevel Protector to move the right end of the Bevel Protector back in position. It might help to push against the front of the clip when necessary (fig 13&14). Push the Clamping Clip as far backwards as possible. Push and knock on the circumference of the pipe to make sure that the Bevel Protector is fitted as deeply and equally distributed in the pipe end as possible.



Figure 13. Push the Bevel Protector inwards

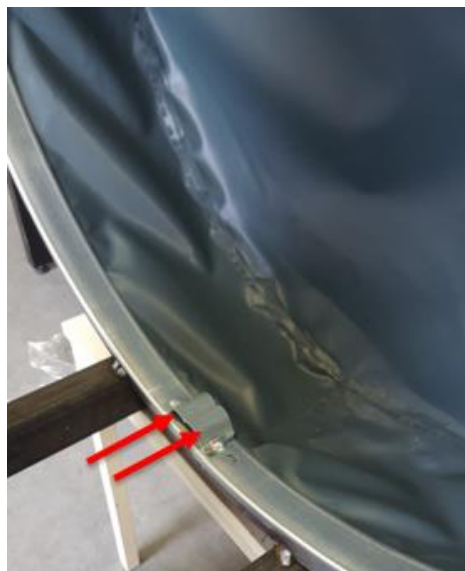


Figure 14. Equally distribute Bevel Protector and push as far as possible

Flattening the Clamping Clip by using Dhatec Clamping Tool Bevel Protector

First, make sure the Clamping Tool Bevel Protector is held correctly on the hand grips (fig 15). Place the top beak over the Clamping Clip, and the bottom beak over the pipe end. Make sure the protection plate is placed against the Bevel Protector (fig 16).



Figure 15. Place the tool correctly



Figure 16. Plate should be placed against Bevel Protector

Push the operation switch to flatten the Clamping Clip (fig 17). Hold the switch until the top beak goes up by itself. When the beak is starting to go up, release the operation switch and take the Clamping Tool off the Clamping Clip and pipe end (fig 18).



Figure 17. Flatten the Clamping Clip

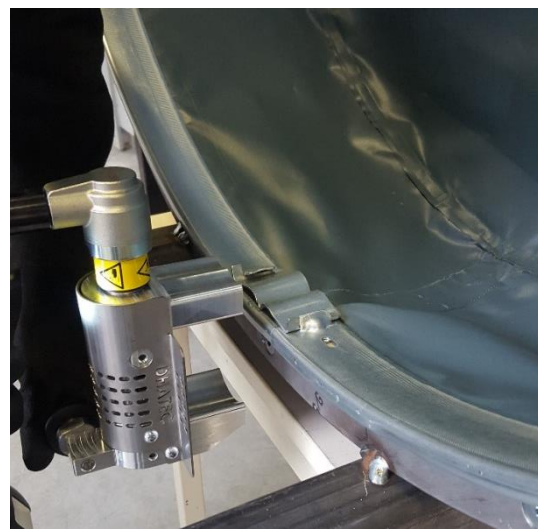


Figure 18. Take off the tool

Flattening the Clamping Clip by using Dhatec Bevel Protector Toolset

Hit the hammer on one of the two humps (fig 19), followed by a hit on the other hump (fig 20).



Figure 19. Hit the clamping clip

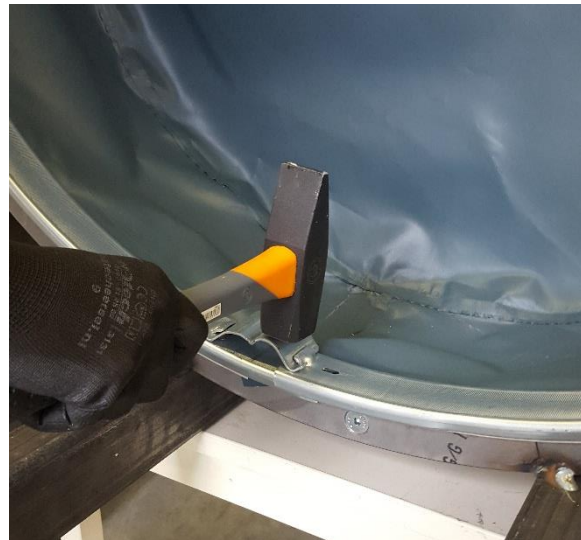


Figure 20. Hit the other side

Repeat these steps (fig 21) until the Clamping Clip is flattened as shown (fig 22).



Figure 21. Repeat until the Clamping Clip is flat



Figure 22. Correctly placed Clamping Clip

Removal of the Clamping Clip

For removal of the clamping clip, use the Dhatec Bevel Protector Toolset. Place the chisel underneath the clip and hammer it underneath the clamping clip (fig 23&24) and push it down (fig 25&26). The clip should pop out. Keep in mind you never re-use a clip.



Figure 23. Place the chisel



Figure 24. Hammer it underneath the clamping clip



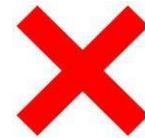
Figure 25. Push the chisel downwards



Figure 26. The Clamping Clip will loosen and pop out

Guidelines to check if PVC Plug with Bevel Protector is applied properly

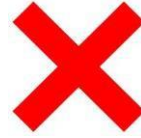
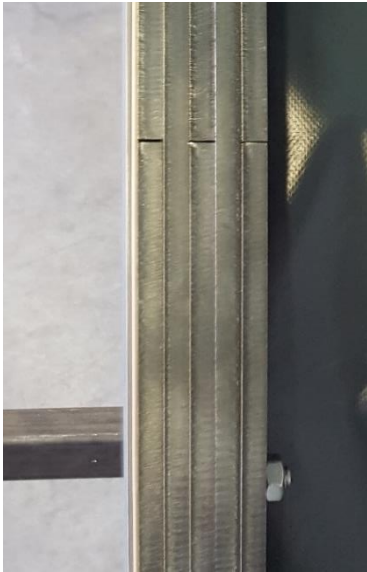
When the Bevel Protector Toolset is used, the Clamping Clip should be hammered down equally. When the Clamping Tool Bevel Protector is used, the clip should always be flattened equally. To be sure, check once more:



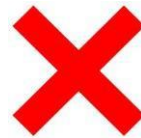
The Bevel Protector should always be fully positioned inside the PVC-Plug:



Make sure the PVC Plug and Bevel Protector connect tightly with the pipe end. No slit may be seen.



Make sure the Clamping Clip is correctly placed in the Bevel Protector.



DON'T FORGET TO CHECK IF THE BEVEL PROTECTOR IS SECURE ENOUGH FOR ITS PURPOSE AND IF IT WILL WITHSTAND VIBRATIONS DURING TRANSPORT OF THE PIPES!

This instruction manual is put together with great care. When safety risks and issues are noticed which are not covered by this instruction, please contact Dhatec to share this remark.