

Safety clamping cylinder



Our safety clamping cylinder solves a variety of clamping problems that could otherwise be risky, and it does this without having to resort to traditional safety devices. Thus, it is possible to realize even greater clamping strokes without running the risk of getting hurt.

The cylinder operates according to a principle of clamping only flat surfaces or flat surfaces that have a deviation of up to 2°. The permissible deviation of 2° was established in collaboration with the BIA (BG Institute for Occupational Safety). The BIA was also responsible for signing off on the approval inspection for the cylinder.

This means we are the first company to be able to offer you a clamping cylinder that has been accepted and certified by the BIA and has received approval ratings for clamping without using safety devices.

The streamlined cylinder's design keeps costs in check so that it is only slightly more expensive than other clamping cylinders currently on the market. Its simple design means that it works properly every time.

Customized clamping pieces are available for clamping work pieces whose surface deviation is greater than 2° or even stepped clamping surfaces. Thus, almost every conceivable work piece can be clamped properly.

Cylinder size ranges from 40 mm and 63 mm in double-acting and single-acting versions.

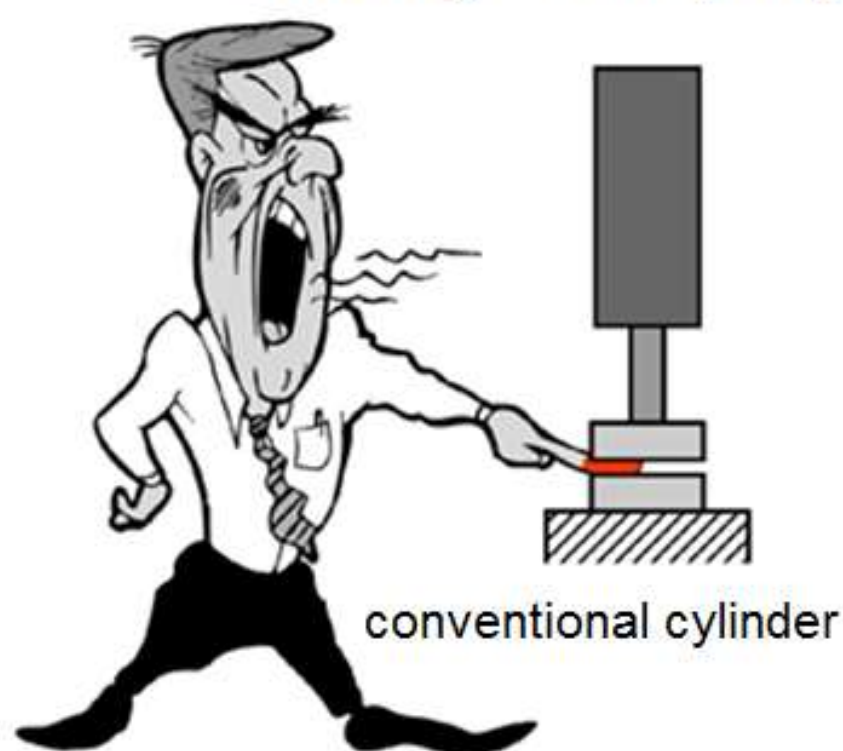
DW = Double-acting

EW = Single-acting

Design and operation:

- Head cover, cylinder tube and clamping head are made of anodized aluminium; the other parts are made from corrosion-resistant material.
- The clamping plate is custom-manufactured according to the needs of the user.
- High-quality bearings and sealing materials ensure maintenance-free operation and long service life.
- For technical reasons, the cylinder only should be operated using air that is free of oil, and is clean and dry.

Control of transverse forces during clamping



certificate
no. HO 121112
dated 09.11.2012

Translation

DGUV Test Certificate

Name and address of the holder of the certificate (customer): Somatec Klaus Mayer Gewerbestraße 19 88636 Illmensee

Name and address of the Manufacturer: see above

Product designation: Pneumatic safety clamping cylinder

Type: 40x40 to 40x400, 50x40 to 50x400, 63x40 to 63x400
EW: single-action cylinder; DW double-action cylinder

Intended purpose: Clamping of workpieces.

Testing based on: GS-HO-01 Principles for testing and certification of woodworking machines, issue 09.2010 with test regulations issue 09.2010.

Test report: 112048

Remarks/specific aspect: Follow up certificate to Nr. HO 071159 dated 13.12.2007.

The type tested complies with the test basis specified above. The holder of the certificate is entitled to affix the DGUV Test mark shown overleaf to the products complying with the type tested, including the specification given under the heading 'remarks'.

The present certificate including the right to affix the DGUV Test mark is valid until: 08.11.2017

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification of August 2012.



Head of testing and certification body
Frank Hagendorf

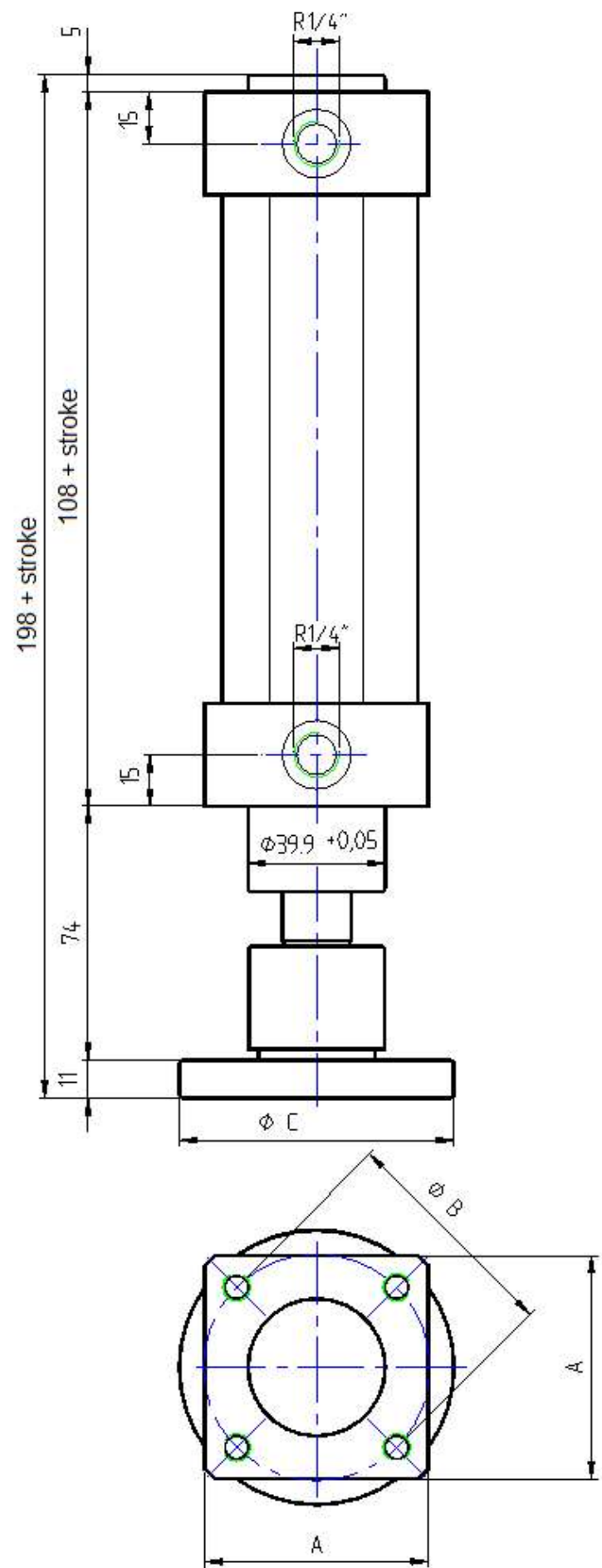
Postal address: Postfach 80 04 80 • 70504 Stuttgart • Office: Vollmoellerstrasse 11 • 70563 Stuttgart
Phone +49 (0) 711/1334-11171 • Fax +49 (0) 711/1334-21171 • E-Mail: pz-holz.fhbm@bghm.de •
http://www.dguv.de/fb-holzundmetall/pruefstellen/holz • Wa • product group 009.009001

PSB/BBE
07.10

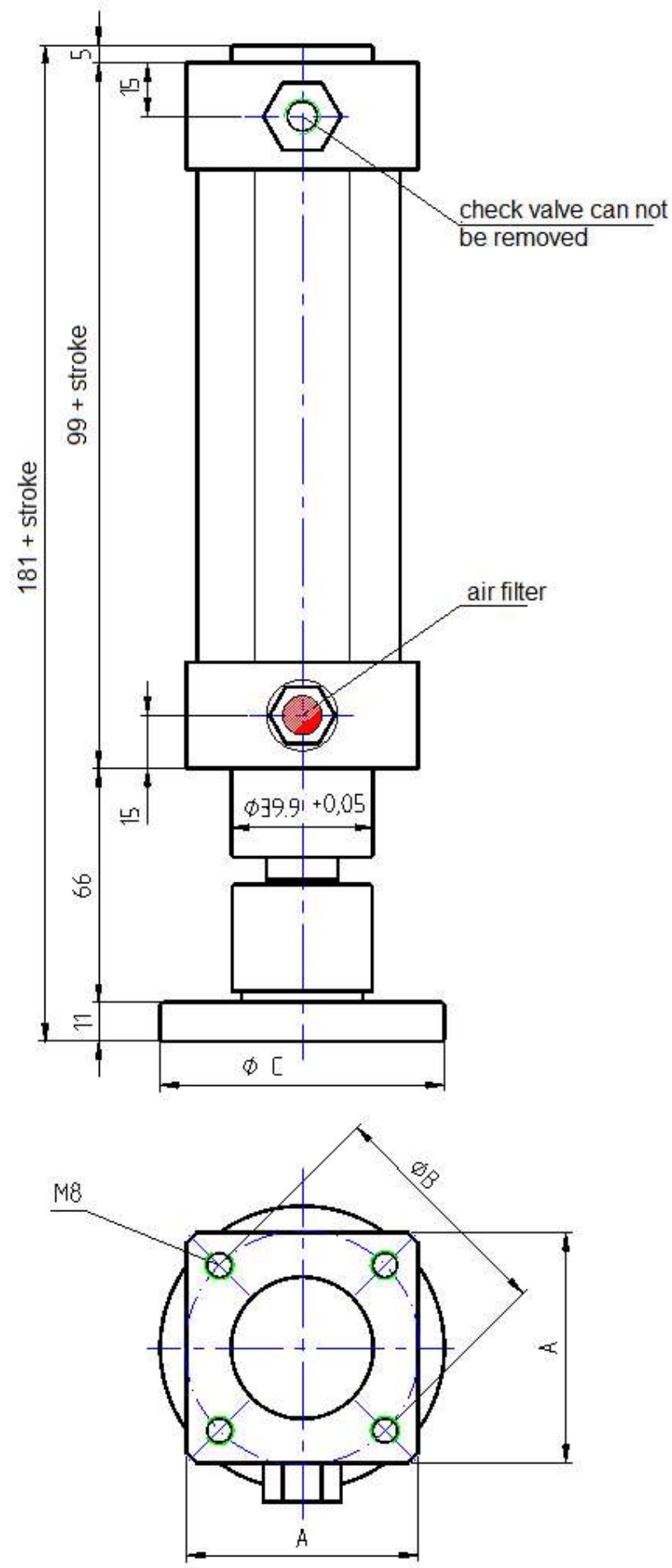
In any case, the German original shall prevail.



Safety clamping cylinder DW



Safety clamping cylinder EW



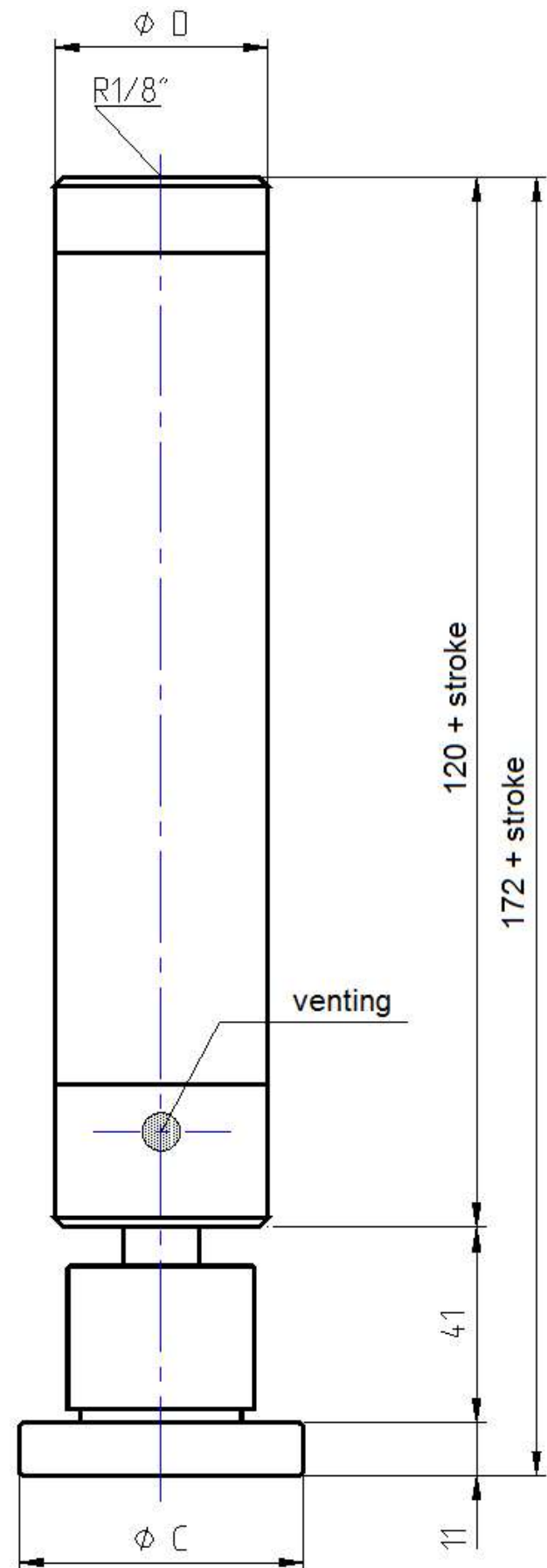
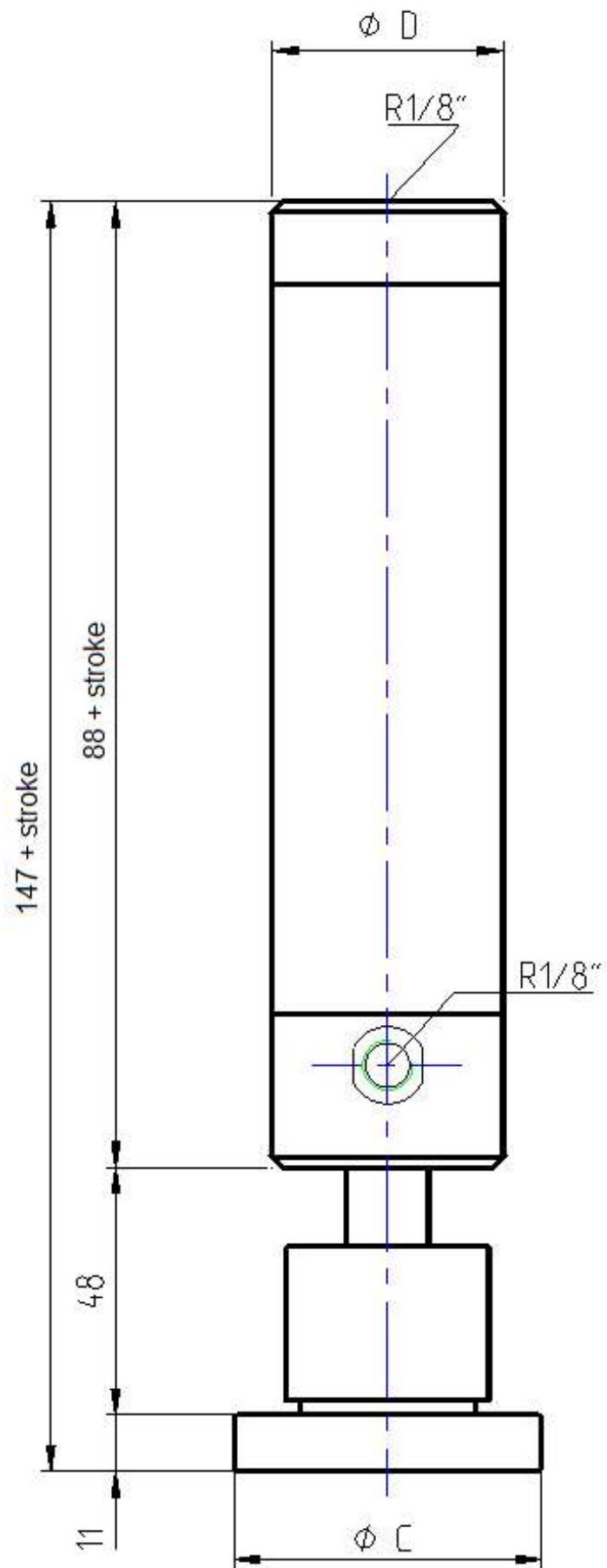
Double-acting cylinder

Size	A	Ø B	Ø C	Stroke
50 DW	65 mm	66 mm	min 80 mm	up to 40 mm
63 DW	75 mm	80,6 mm	min 80 mm	up to 40 mm

Single-acting cylinder

Size	A	Ø B	Ø C	Stroke
50 EW	65 mm	66 mm	min 80 mm	up to 40 mm to max. 100 mm
63 EW	75 mm	80,6 mm	min 80 mm	up to 40 mm to max. 100 mm

Round safety clamping cylinder



Double-acting cylinder

Size	Ø D	Ø C	Stroke
40 DW	45 mm	min 60 mm	ab 40 mm
50 DW	55 mm	min 80 mm	ab 40 mm

Single-acting cylinder

Size	Ø D	Ø C	Stroke
40 EW	45 mm	min Ø 60	up to 40 mm to max. 80 mm
50 EW	55 mm	min Ø 80	up to 40 mm to max. 100 mm