

## 1. Declaration of conformity

(as defined by EG-machine instruction 2006/42 EG, annex II 1A)

Manufacturer:

WERUCON GmbH  
Fahrenheitstraße 9  
28359 Bremen

We hereby declare that the machine described hereafter complies with the base requirements of the above mentioned instruction specified and listed in the table (see page 2 of the declaration). In case of modifications carried through at the machine without our acceptance the entire declaration of conformity does no longer hold valid.

**Machine description:** mini cask extracting unit  
**Machine No.:** D-KGE1-01  
**EG-instruction:** EG-machine instruction 2006/42/EG

### Appropriate norms applied:

EN ISO12100-1 (Safety of machines: Basic terminology, methodology)  
EN ISO12100-2 (Safety of machines: Technical guidelines and specification)  
DIN EN 983 (Safety of machines: Technical demands of fluid technical equipment and its components)  
DIN EN 953 (Safety of machines: Separating protection devices)  
DIN EN 954-1 (Safety of machines: Safety related parts of control)  
DIN EN 1088 (Safety of machines: Locking devices)

**Authorized person for documentation:** Jens Schmidtmeier  
**Address:** see manufacturer

**Place/ date/ signature of manufacturer:**

Bremen, 07.06.2012

A handwritten signature in blue ink, appearing to read 'G. Ruhkopf', written over a horizontal line.

**Details of signatory:** CEO Gerd Ruhkopf

# Operating instructions of mini cask extracting unit

Type: D-KGE1-01



## **1. Application:**

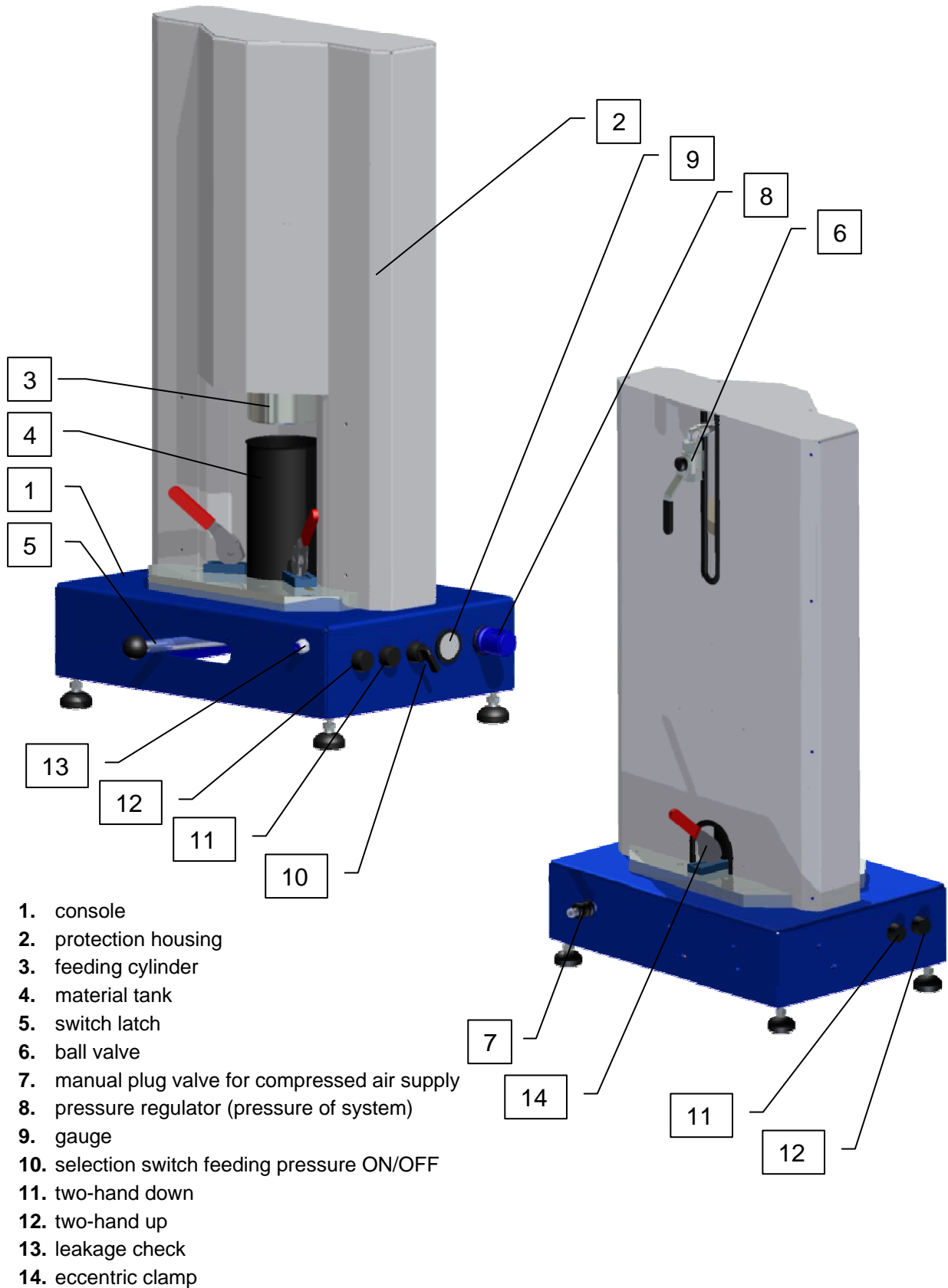
The mini cask extracting unit KGE of WERUCON® is a feeding system for dosing units. Highly viscous liquids or paste like industrial lubrication media are extracted adapted to customer specific material tanks. Tanks up to approx. 1 kg are constantly emptied with a feeding pressure of 6 bar without pressure fluctuation.



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## 2. Technical description:



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## 3. Function principal:

The feeding cylinder (3) plunges into the material tank (4) up to the dead stop. After locking the equipment by means of the switch latch the feeding cylinder seals the material chamber on front side. This position releases a pneumatic signal which releases material extraction.

After switching the selection switch (10) over to *feeding pressure ON* the material is constantly fed through the piston rod due to the pressure on the feeding piston. Material extraction can be interrupted via ball valve (6).

When the material tank is emptied completely it has to be exchanged manually with a new and full material tank.

The operational condition of the piston sealing in the feeding cylinder can be checked visually at the hose for leakage check (13). So it is ensured that any compressed air enters the grease chamber. The medium is fed to the dosing unit free from bubbles.

## 4. Installation

- Installation alignment: set on its positioning feet either on a work bench or desk
- Connect pressure supply to the compressed air net (6 bar)
- Connect hose to the dosing unit (e.g. volume dosing) to *ball valve (6)*



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## **5. Start-up / Operation:**

**Attention!:**

- **Do not use any casks not approved for use by WERUCON®!**
- **The filling volume of the cask must not exceed the amount recommended by WERUCON®!**

### **Initial start-up (Deaeration of material hose):**

- Dosing unit is not yet connected to the material.
- Feed compressed air. Open manual plug valve (7).
- Adjust system pressure to 6 bar via pressure regulator (8).
- Release unit with switch latch (5).
- Drive the feeding cylinder to the top position via two-hand control (12).
- Open material tank (4). A border of the cover must not remain! If necessary remove the entire bottom of the cover using a tin-opener.
- View control: Ensure that the piston is in bottom position of the cylinder shell. If necessary press into bottom position manually at the ball valve (6).
- Put material tank on the base plate of the extracting unit positioning it in the annular groove.
- Move the clamping plate towards the tank and latch it with the excentric clamp (14) (3 times).
- Move the feeding cylinder into the material tank up the dead stop via two-hand down (11). During this process the piston presses on the material surface and is then pushed upwards through the feeding cylinder.
- Lock the unit with switch latch (5).
- Adjust feeding pressure to ON via selection switch (10).
- Open ball valve (6).
- Feed medium up to the end of the material hose and close the dosing unit instantly.
- Activate dosing unit until the entire residual air has left the system.



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## 6. Operation instruction

### *Standardoperation*

- *View control: The piston has to be situated in bottom position of the feeding cylinder!*
- *Open material tank.*
- *Put the material tank on the base plate of the extracting unit.*
- *Clamp the material tank by means of the eccentric clamp (3 times)*
- *Two-hand feeding cylinder moving down.*
- *Lock the switch latch.*
- *Move selection switch: feeding pressure ON.*
- *View control: Empty the tank completely very carefully as soon as the hose to the ball valve has reached approx. 20 mm from long slot.*

### *Change of cask:*

- *Selection switch feeding pressure OFF.*
- *Unlock switch latch.*
- *Two-hand feeding cylinder moving up.*
- *Loosen exccentric clamp (3 times).*
- *Take out the empty cask.*
- *Process starts again.*

### Remark:

In order to be able to feed the material free from bubbles material tanks free of entrapped air (provided by the supplier) have to be used exclusively.

If air or material escapes from the hose the piston sealing of the feeding cylinder is defectuous.

