

MiniValve Instruction



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EC-declaration of Conformity

Referring to Encl. VII of Directive 97/23/EC

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We affirm, that the product

Valve for container, Type RS-MIV and Type MF-MIV

Manufactured by us fulfils the requirements of Directive 97/23/EC concerning pressure equipment.

The product is in category I, and the following conformity assessment procedure is followed:

Module A (Internal production control)

The valve must only be installed and used in a container made specially to fit this valve, and the assembly must fulfil the requirements of Directive 97/23/EC before it is put into duty.

Odense, Date 0303-2003

Sign. 

Jan Juel Jensen
Technical Director

MiniValve Instruction

Make certain that these instructions are read and understood by anyone using a MiniValve.

Safety precautions - Warning!

Keep workplace and equipment clean.

Containers with MiniValve must only be connected to MiniValve coupler.

Check the equipment regularly for leaks and do not use unauthorized tools or articles not designed to use with MiniValve.

Please handle MiniValve carefully – do not drop.

Prevent foreign matter and dust from getting into the MiniValve.

Please contact your dealer in case of malfunction or damage. Please do not repair or replace defective parts.

Risk relating to liquid used in the system must be handled with care. See product information and Supplier's instructions for use and always wear relevant personal protection equipment such as gloves and glasses.

How to operate MiniValve RS-MIV and MF-MIV

The MiniValve is a unique system for closed returnable liquid packaging and is designed for safety, security and greater efficiency and offers a practical solution for the standardization of returnable containers for all industries.

The system is suitable for a range of liquid products.

The system can offer greater efficiency through high speed automated cleaning and filling.

This instruction has been prepared as a guide through the procedures for connection and disconnection of MiniValve.

Connection

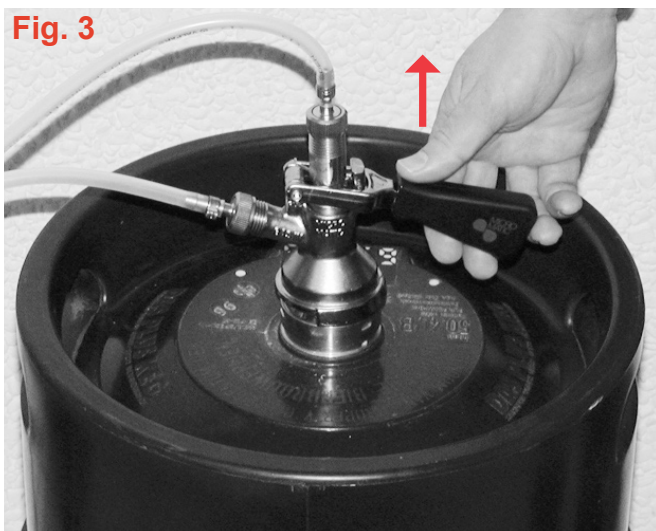


Fitting and assembly of valve and coupler. Check that the handle is in top/up position. Engage the coupler to the extractor valve.



Activation of coupler and opening of system. Activate the handle downwards. The handle cannot be activated if the coupler is incorrectly connected to the extractor valve - Do not force but start from the beginning again. Press the handle completely down so that the handle is locked. The coupler is now connected to the extractor valve and the system is open.

Disconnection



De-activation of coupler and closing of system. Activate the handle upwards and into top/up position while keeping the coupler on the extractor valve. The system is closed.



Removal of coupler from valve. Disengage the coupler from the extractor valve. Remove the coupler from the extractor valve.

Technical data/features

Extractor Valve and coupler

- Fulfills the requirements of Directive 97/23/EC concerning pressure equipment
- Security system prevents unauthorized entry (special tool to remove Extractor Valve)
- The coupler provides additional safety through the use of non-return valves to prevent unauthorized filling
- Dry Break coupling
- Not compatible with chemical or beverage systems
- Max. working pressure 6 bar
- Max./min. working temperature +45°C/÷10°C
- Cleaning temperature: Max. 85°C/2 minutes
- Steaming temperature: Max. 130°C/2 minutes

Materials

Extractor valve:	Stainless steel	
	Seal options: Viton, Nitrile, EPDM - others on request	
Coupler:	Body:	Brass tin/nickel plated or Stainless steel
	Piston:	Stainless steel
	Seal options: Viton, Nitrile, EPDM - others on request	
External thread - Liquid out:		5/8" BSP, 1/2" BSP or 1/2" NPT
External thread - Air inlet:		3/8" BSP or 1/2" BSP

Cleaning and maintenance

Always keep your equipment clean to ensure optimum function and safe use.

When performing cleaning or maintenance jobs of MiniValve make sure that it is disconnected and make sure no media is entering the component.

Extractor valve:

- Wipe flange outside (sealing area) with a wet cloth.
- Inside cleaning is made during the automatic cleaning and filling process.
- The seals must be replaced every time an extractor valve is removed from a container.
- In case of malfunction (damage, trouble etc) please contact your supplier.

Coupler:

- Wipe coupler outside with a wet cloth.
- Wipe coupler inside in the contact area (main gasket) with a wet cloth.
- Cleaning socket for rinsing the coupler and associated system can be used - auxiliary equipment.
- Change gaskets during disassembly and cleaning, preferably once a year, or as required.
- In case of malfunction (damaged, trouble etc) please contact your dealer.

See instructions »Servicing of Mini Valve Extractor RS-MIV and Mini Valve Coupler MF-MIV«

Mounting/dismounting of MiniValve

This manual has been prepared as a step by step guide through the procedures for mounting and dismounting of MiniValve.

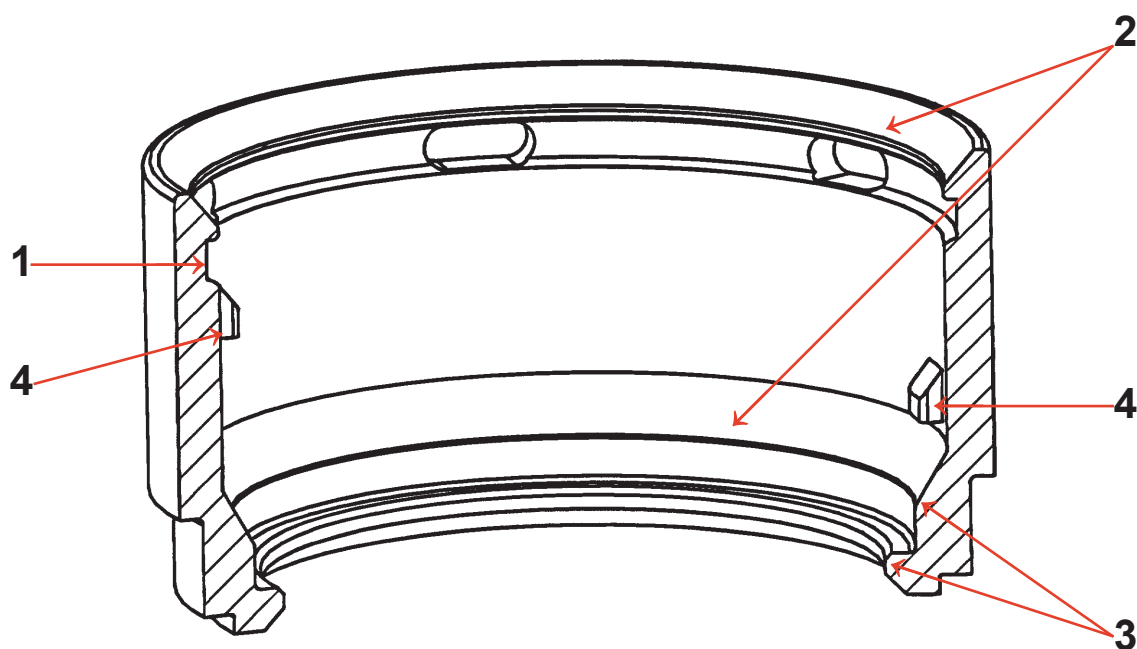
Prior to mounting

Check that the groove of the neck for circlip (1), inlet areas (2) and sealing areas (3) have neither burrs, damage nor other foreign materials.

Check that the neck has 2 lugs (4), placed 180° opposite to each other, and that both are undamaged.

Otherwise the extractor valve should not be mounted.

Fig. 1



Inspection of neck

Fig. 2



Use an internal limit gauge when checking that the neck, when welded in, does not exceed Micro Matic specifications for ovality (53,2 - 53,5 mm). (See also Micro Matic inspection sheet No. 001-619). Use a gauge with the smallest dimension on the neck. It must fit without the least difficulty. Otherwise it will not be possible to mount the extractor valve correctly and the keg should not be used.

Fig. 3



Place gauge with the largest dimension on the neck. It should not be able to enter the neck. Otherwise it will not be possible to mount the extractor valve correctly, and the keg should not be used.

Mounting instructions for MiniValve



Place tamper evident ring over the neck.



Ensure that O-ring and circlip are in place on extractor valve. To fit the valve, moisten it first in a lubricant approved by the end user. If permitted, Teflon spray can also be used. Place extractor valve into neck. Turn until the extractor valve drops and then turn clockwise 180° with a slight pressure until the extractor valve is engaged.

Fig. 6

Press down extractor tube until the circlip has passed contact area 2 (see page 6)

Fig. 7

Place spindle tool (740-076) over the extractor valve.

Fig. 8

Turn spindle clockwise until you hear no more clicks.

Then turn the spindle tool 90° and turn spindle clockwise again, to ensure correct mounting.

Dismounting instructions for MiniValve



Break tamper-evident ring to expose six holes.



Degas the container.

Fig.11



Place valve releasing tool (740-078) so that the six pins fit into the six holes.

Fig. 12



Squeeze the handles gently but not completely together.

Fig. 13



Place the lifting tool (740-081) on the retaining ring tool.

Fig. 14



Press handle down, until the extractor tube goes up.

Fig. 15



Turn extractor tube anticlockwise and remove it from the container.