

Service Instruction 1" Tank Unit

Subject to design changes

Art. nr: PR-050820-0121 Version: 111219





Quality, Health, Safety and Environment Policy

Our objectives are simple – no accidents, no occupational illness or work related accidents, no negative environmental impact and optimizing and continuously improving customer satisfaction wherever we operate.

Mariestad, February 28 2008

Topy Mann

What does this mean?

In our daily work to develop, sell, deliver and maintain our products this means to act as soon as we recognize a risk for:

- Delivery of products with insufficient technical quality
- Giving incorrect information
- Not complying with laws and regulations concerning our operation
- Causing negative environmental impact
- Causing occupational illness or accidents
- Not be able to keep promises on delivery terms (product and information)

To act, here means to point out the risk and to make sure we take a balanced decision to prevent what is undesired.

(This policy includes all that is traditionally covered in separate policies for quality, health, safety and environment)



TANK UNIT 1" Material: AI, SS



Parts needed for service: Spare pa

Spare part kit and O-ring kit (see page 4)

Perform a service:

If leaking Every year Change of media



Please note!

Make sure that you are using the right type of O-rings and seals for the media you are using. We are using a standard grease Mann no F1 for standard media, by special media please contact us.



Maintenance and service instruction



Always depressurise the system and rinse off the parts before beginning any maintenance work. Use protective goggles. Do not handle O-ring seals if the material appears charred, gummy or sticky.

Use tweezers and wear neoprene or PVC gloves. Do not touch adjacent parts with unprotected hands. Rinse off the parts once again before starting the "daily inspection"

Daily inspection

- 1. Inspect the coupling surface for cleanliness and corrosion.
- 2. Inspect the O-ring in the house unit connection for serviceability and correct seating in the grove.
- 3. Inspect the hose unit swivel for free rotation.
- 4. Inspect the tank- and hose unit for faultlessness and external signs of seizure.

Three-month inspection

- 1. Exterior cleaning of the coupling halves with a neutral cleanser.
- 2. Careful "daily inspection" of cleaned units.

Once a year

- 1. Exchange sealing and washer at least once a year.
- 2. Refill the hose unit ball bearing grooves with grease
- 3. Replace worn or damaged components. Repair procedures are straightforward and no special tools are required.

Check the state of the connection surface and verify that it is clean before proceeding with the connection.

Couple the repaired unit to a serviceable hose or tank unit as appropriate and check for correct operation of the valve actuating and bayonet locking mechanism. Couple and uncouple the unit(s) several times.

Use only original Mann Teknik spare parts for maintenance.

Spare part kit (S-L1-xx) O-ring kit (O-L1-yy) xx and yy means the material key according to the product catalogue. You will find it also as the 6th to 9th sign in the serial number (eg. L103AxxyyB).







Remove the flat sealing. NPT-thread does not have a flat sealing.

Remove the threaded part and take out the spring. The threaded part has been locked with Loctite[®] so to easy up the dismounting heat the coupling.



Loctite® is registered trademark of Henkel.

Remove the piston.











Place the piston in the connection part.

Change the O-ring (pos.3) on the piston to a new greased O-ring.







Place the spring over the piston in the connection part.

Change the Teflon[®] bushing (pos.5) to a new one, on the threaded part.



Change the O-ring (pos.14) on the threaded part to a new one. Use a greased O-ring.

Teflon® is registered trademark of DuPont Dow Elastomers.







Put some Loctite[®] on the threads.

Lock oil: Loctite[®]

Assemble the connection part with threaded part. Make sure to tighten the threaded part on the connection part.



Loctite® is registered trademark of Henkel.

Assemble a new flat sealing (pos.12). Finally, make a visual inspection that everything is in its right place.

Do also a test connection/ disconnection with a hose unit that not is mounted and not has any fluid inside.

If the coupling works all right you are ready to use it again.



TEST PROCEDURE

Tank- and Hose Unit are tested according to following procedure:

Working pressure PN 16 (16bar/240 psi)

Tank- and Hose Unit disconnected
0.2 bar in min. 30 sec. with air under water – no bubbles
6 bar in min. 30 sec with air under water – no bubbles
25 bar in min. 30 sec with water – no leakage of water

Tank- and Hose Unit connected under bending spraying leak finder round the coupling

0.2 bar in min. 30 sec with air – no sound of leaking air
6 bar in min. 30 sec with air – no sound of leaking air
25 bar in min. 30 sec with water – no leakage of water

Working Pressure PN 25 (25bar/375 psi)

Tank- and Hose Unit disconnected
0.2 bar in min. 30 sec. with air under water – no bubbles
6 bar in min. 30 sec with air under water – no bubbles
40 bar in min. 30 sec with water under water – no bubbles

Tank- and Hose Unit connected under bending spraying leak finder round the coupling

0.2 bar in min. 30 sec with air - no sound of leaking air6 bar in min. 30 sec with air - no sound of leaking air40 bar in min. 30 sec with water - no bubbles

Approved coupling stamps on the piston.

Number tested: 100%

Storage

Store coupling in a dry, dust free, dark place, in ambient temperature.

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