

Service Instruction 2" Hose Unit

Subject to design changes

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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)



HOSE UNIT 2" Material: AI, SS



Parts needed for service:

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-M2-xx) O-ring kit (O-M2-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 (e.g. M210AxxyyA).









Unscrew and remove the handle.

Tool: Allen key 6 mm

Unscrew and remove the lock screw from the swivel ring.

Tool: Hexagon wrench No. 2

To unscrew and remove swivel sleeve from swivel ring. The swivel ring has to be fixated with help of an Ø6 mm pin.







Remove the two rollers and the rolling shaft from the piston guide.

Press down the piston and turn the driving plate to the position where the recess ends up under the rollers.

Tool: Polygrip plier



Turn back the unit and remove the driving plate packet from the coupling body.





If necessary change O-ring (pos.21) for dust –protection. Use grease on the new O-ring.



Remove and change the O-ring (pos.24) from the groove in the coupling body. Use grease on the new part. Apply grease on the balls for best possible swivel rotation.

A mounting sleeve is recommended to mount the o-ring. If no sleeve is available a plastic strip can be taped around the body to cover the cam curves



Check the rollers for easy rotation.







Change the O-ring (pos.8) on the driving plate back side. Use grease on the O-ring.

Make sure that the O-ring doesn't get twisted when mounting.



Make sure that the O-ring doesn't get twisted when mounting.



Change the O-ring (pos.3) on the piston. Use grease on the new Oring. Make sure that the O-ring doesn't get twisted when mounting.





Press down the O-ring with your thumb. Make sure that the O-ring fits into the groove.



Before the coupling body places on the driving plate packet, make sure that the part where the upper cam curve ends, shall be placed exactly over one roll, and the heel on the driving plate packet should be placed under the hole for the shaft.



Press down and turn the driving plate to the position where the driving plate heels are placed under the rollers.







Mount the rolling shaft and the two rollers into the piston guide.

Place a new flat seal (pos.29) on the swivel sleeve. (Not needed when NPT-thread)



Place the swivel sleeve over the coupling body and screw in the swivel sleeve. The swivel ring has to be fixated as earlier when unscrewing the swivel sleeve from the swivel ring.





Screw the lock screw into the swivel ring.

Mount the handle on the coupling body.



Finally,

make a visual inspection that everything is in it's place. Do also a test connection / disconnection with a tank unit that not has any fluid inside. If the coupling works alright you are ready to mount the hose unit on your hose again.



TEST PROCEDURE

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

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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