

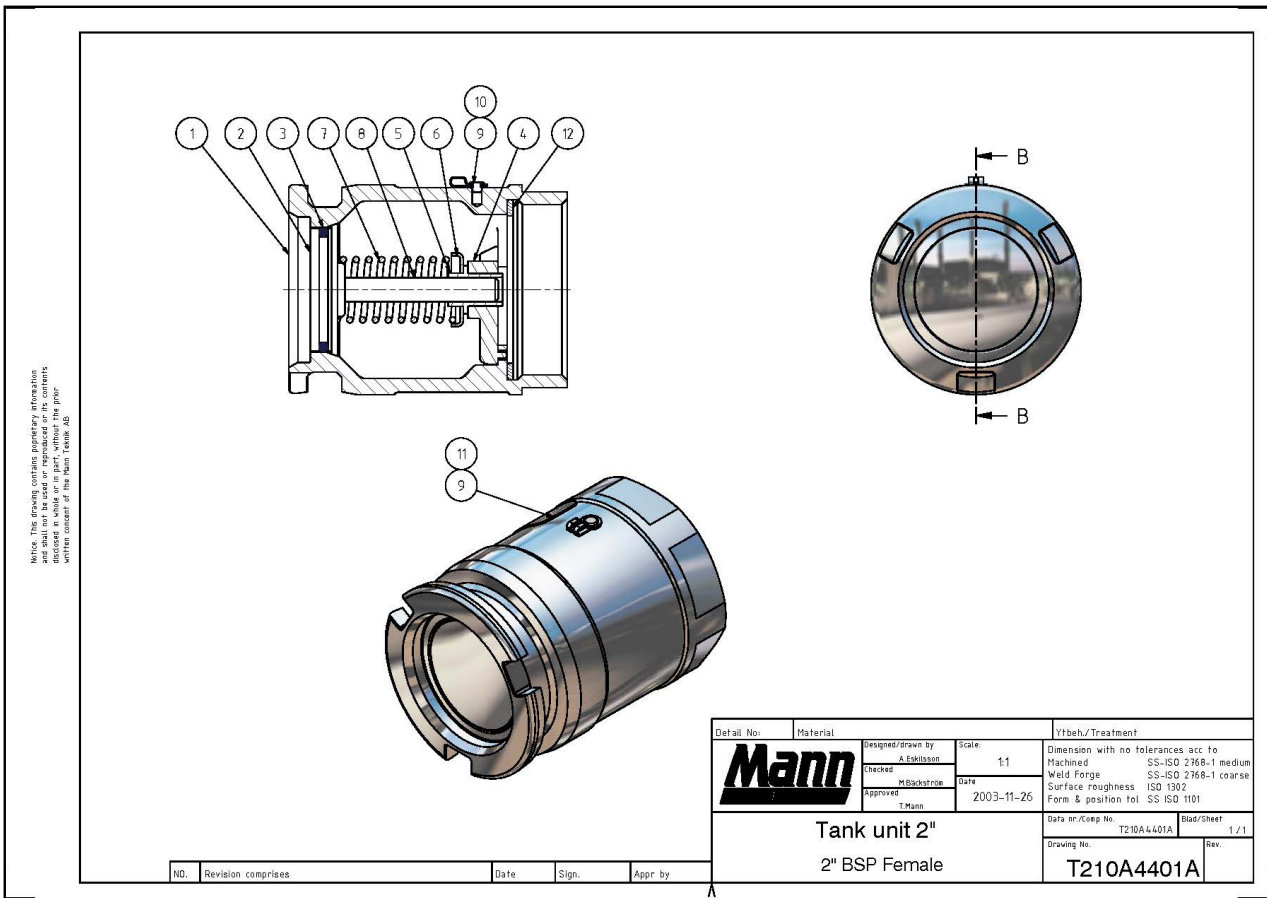
# MannTek

## Service Instruction **DDC - Tank Unit**

2"



# DDC - TANK UNIT - 2"



**PARTS NEEDED FOR SERVICE:**

**MATERIAL:**

**TYPE OF CONNECTION:**

**PERFORM A SERVICE:**

Spare part kit and O-ring kit (see p.3)

Aluminum, Brass, Stainless Steel

Threaded and Flanged couplings have the same service instruction.

If leaking

According to application service plan, (see regular service p.3)

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 silicone based grease for standard media, for special media please contact us.

## MAINTANANCE AND SERVICE



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. Visually inspect the coupling for cleanliness, wear, damage and signs of corrosion.
2. Visually inspect the front face of the coupling for wear and damage.
3. Visually inspect the coupling for leaks.

## REGULAR SERVICE

Regular service interval is very much depending on local regulations and application conditions. If nothing else is specified and it is a new application with unknown parameters we recommend to make a first service after one year and decide then depending on the inspection result about further intervals.

The service procedure shall be as follows:

1. Replace the tank unit O-ring (and washer for BSP connections).
2. Replace worn or damaged components.

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

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

## PLEASE NOTE!



### USE ONLY ORIGINAL MANNTEK SPARE PARTS FOR MAINTENANCE.

Spare part kit (S-T2-xx)  
O-ring kit (O-T2-yy)

yy means the O-ring material key according to the product catalogue. You will find it also as the 6th to 9th sign in the serial number (e.g. T210AxyyA).

## DISASSEMBLE

Remove the flat sealing  
NPT-thread doesn't have a flat sealing.  
Make sure you don't scratch the seal face



## DISASSEMBLE

Press down the spindle steering and turn it free.

*Tool 020*



## DISASSEMBLE

Take out all the parts from the body (spindle steering, springcap, spring, piston).



## CHANGE BUSHING

If needed replace the PTFE bushing (pos.5) in the spindle steering with a new one.



## CHANGE O-RING

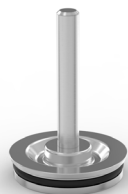
Replace the O-ring on the piston with a new greased O-ring (pos.3).

*Tool 081 (Grease)*



## CHANGE O-RING

Have an equal pressure around the O-ring. The O-ring must be pressed into the groove on the piston.



## REASSEMBLE

Put the piston into a relaxing position in the valve seat.



## REASSEMBLE

Mount back the spring (pos.7), springcap (pos.6) and the spindle steering (pos.4).



## REASSEMBLE



Press down the spindle steering and turn, to fix it in its position.

## REASSEMBLE



Make sure that the spindle steering is in its right position.

## REASSEMBLE



Assemble a new flat sealing (pos.12). NPT-thread and flange does not have a flat sealing.

## TEST THE COUPLING



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

After each service a pressure and tightness test of each coupling is mandatory.  
 If only the O-Ring kit is replaced a seat tightness test is enough.  
 The following test parameters are in accordance with EN12266 and EN14432:


Test procedure	Test pressure	Acceptance criteria
Seat tightness test (Air)	6 bar +/- 1 bar	No visually detectable leakage for the duration of the test
	Max 0,3 bar	
Shell tightness test (Water) (if applicable)	 1,5 x working pressure*	

Table 1 – Test pressure

Nominal size	Minimum test duration
Up to DN 50	15 s
DN 65 to DN 150	60 s

Table 2 – Minimum test duration

### TEST PROCEDURE:

- Plug the tank unit with the appropriate end connection and fill it with the test media (e.g. air or water).
- Apply the test pressure specified in Table 1.
- Maintain the test pressure for the test duration specified in Table 2.
- Determine the leakage rate.
- Couple the serviced hose unit to a usable tank unit and test for leakage.

If a pressure test should be achieved for the coupling mounted in an assembly follow the respective test instructions for the equipment but do not exceed 1,5 x Working Pressure of the coupling.

Approved couplings get stamped on the piston.

**Number tested: 100%**

## STORAGE

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