



## CLEANING BEVERAGE DISPENSING SYSTEMS WITH TM DESANA MAX

TM DESANA MAX is a cleaning and verification agent in powder form for all kinds of beverage dispensing installations. During the cleaning process the COLOR INDICATOR shows the hygienic status of the beverage lines. These 7 easy steps show you how to verify and clean with a pressurized cleaning KEG and TM DESANA MAX.

### BEER LINE CLEANING USING A PRESSURIZED CLEANING POT

#### 1. PRE RINSE LINE



Always pre rinse cleaning container with fresh water.



Open the faucet and empty the line of residue. Flush lines with clean tap water.

#### 2. OBSERVE SAFETY ASPECTS!



During handling with the powder and the prepared solution always wear protective clothing (gloves, glasses)!



The powder of TM DESANA MAX is a corrosive agent. **AVOID INHALATION / SKIN CONTACT WHEN OPENING** the sachet. Bend sachet at dashed line and tear to open.



The solution should not get in touch with the skin. Do NOT feel the rinse effect with your hand or fingers! Use pH-test strips to verify a proper rinsing. Use caution when handling caustic chemicals. Never leave product unattended!

#### 3. PREPARE SOLUTION



Make sure to prepare enough solution to fill entire system (see table A)! Content of 1 sachet (1.6 oz) good for 1.2 gal of solution. Add powder into flowing jet of luke warm water (max. 100°F) and fill up cleaning bucket with 1.2 gal of water.



Avoid the building of chunks: Close cleaning-container and shake well.

NOTE: NO shaking of the container AFTER attaching to CO<sub>2</sub> supply! CO<sub>2</sub> will neutralize the alkaline solution in the tank!



Take a "blank" sample from the fresh violet TM DESANA MAX-solution. You will need it later for comparing the colors.

#### 4. FILL THE LINES WITH SOLUTION



Disinfect the coupler and attach it to the cleaning container under CO<sub>2</sub>-pressure.



Open faucet and leave running. Close faucet as soon as cleaning solution flows through.



Leave TM DESANA MAX solution for 3 minutes. TM DESANA MAX dissolves dirt in line during this time and changes color.

#### 5. CHECK THE COLOR



After 3 minutes open the faucet and pour the whole inner volume of the dispensing system (approx. 1 pint for 40 feet of lines) into a bucket.



COMPARE THE COLORS with the "blank" sample that you took from the fresh solution:

>> YELLOW: lines were heavily polluted



>> GREEN: lines were polluted



Fill the line again with fresh solution and leave for 3 minutes. Repeat this procedure until cleaning solution shows its original color, violet, after 3 minutes!



>> VIOLET: When the solution has the same color as the "blank" sample, the lines are clean and in perfect hygienic condition!

#### 6. FLUSH OFF WITH TAP WATER



Rinse all lines with clean tap water. After the rinsing process, the pH of the tap water has to be under 8.5.



Reconnect KEGs after cleaning process and allow some beverage to run through the faucets to ensure that the whole system is filled with beverage.

#### 7. HYGIENE OF COUPLERS AND FAUCETS



Before starting the cleaning process, all couplers should be disinfected with an adequate disinfectant agent, e.g. 70% alcohol). Both, the faucet and the coupler should be disinfected at every change of the KEGs and at every cleaning process.



Disconnect faucets and put into a solution of TM DESANA MAX for approx. 10 min. After this contact time clean mechanically by means of dedicated brushes.

Rinse off with clean tap water after this operation.

DIAM.	1 FT	10 FT	50 FT	100 FT
3/16"	1/6 oz	3/4 oz	1/2 pt	1 pt
1/4"	1/3 oz	1 3/4 oz	1 pt	2 pt
5/16"	1/2 oz	1/4 pt	1 1/2 pt	3 1/4 pt
3/8"	3/4 oz	1/2 pt	2 1/4 pt	1/2 gal
1/2"	1 1/3 oz	3/4 pt	1/2 gal	1 gal

table A: volume of liquid per length of piping





## CLEANING BEVERAGE DISPENSING SYSTEMS WITH TM DESANA MAX




TM DESANA MAX is a cleaning and verification agent in powder form for all kinds of beverage dispensing installations. During the cleaning process the COLOR INDICATOR shows the hygienic status of the beverage lines. These 7 easy steps show you how to verify and clean with a re-circulation pump and TM DESANA MAX.

### RECIRCULATION CLEANING SYSTEM

#### 1. PRE RINSE LINE

-  Always pre rinse cleaning container with fresh water.
-  Open the faucet and empty the line of residue. Remove faucets and set up recirculation system. Flush lines with clean tap water.




#### 4. FILL THE LINES WITH SOLUTION

-  Put "in"-line into bucket with TM DESANA MAX solution.
-  Turn on pump and let solution be pumped into the system until system is completely filled with TM DESANA MAX solution. As soon as water flows out, put "out"-line into cleaning bucket (recirculate solution).
-  Allow solution to circulate for approx. 10 minutes TM DESANA MAX dissolves dirt in the lines during this time and changes color.
- Ensure an even loop (eddy current or air bubbles in the lines reduce efficiency of cleaner).

DIAM.	1 FT	10 FT	50 FT	100 FT
3/16"	1/6 oz	3/4 oz	1/2 pt	1 pt
1/4"	1/3 oz	1 3/4 oz	1 pt	2 pt
5/16"	1/2 oz	1/4 pt	1 1/2 pt	3 1/4 pt
3/8"	3/4 oz	1/2 pt	2 1/4 pt	1/2 gal
1/2"	1 1/3 oz	3/4 pt	1/2 gal	1 gal

table A: volume of liquid per length of piping



#### 2. OBSERVE SAFETY ASPECTS!

-  During handling with the powder and the prepared solution always wear protective clothing (gloves, glasses)!
-  The powder of TM DESANA MAX is a corrosive agent. AVOID INHALATION / SKIN CONTACT WHEN OPENING the sachet. Fold sachet at dashed line, and tear open at rip.
-  The solution should not get in touch with the skin. Do NOT feel the rinse effect with your hand or fingers! Use pH-test strips to verify a proper rinsing. Use caution when handling caustic chemicals. Never leave product unattended.



#### 5. CHECK THE COLOR

-  COMPARE THE COLORS with the "blank" sample that you took from the fresh solution:  
 >> YELLOW: lines were heavily polluted
-  >> GREEN: lines were polluted
-  If solution turned yellow already after 3 minutes, the lines were heavily polluted. In this case, we recommend to prepare a fresh solution and start a second cleaning run to ensure perfect results.
- If solution remained color of "blank", the lines are clean after the run and in perfect hygienic condition.



#### 3. PREPARE SOLUTION

-  Make sure to prepare enough solution to fill entire system (see table A)! Content of 1 sachet (1.6 oz) good for 1.2 gal of solution. Add powder into flowing jet of luke warm water (max. 100°F) and fill up cleaning bucket with 1.2 gal of water. Avoid the building of chunks: Mix thoroughly.
-  Take a "blank" sample from the fresh violet TM DESANA MAX<sup>®</sup>-solution. You will need it later for comparing the colors.

#### 6. FLUSH OFF WITH TAP WATER

-  Rinse all lines with clean tap water. After the rinsing process, the pH of the tap water has to be under 8.5.
-  Reconnect KEGs and faucets after cleaning process and allow some beverage to run through the faucets to ensure that the whole system is filled with beverage.

#### 7. HYGIENE OF COUPLERS AND FAUCETS

-  Before starting the cleaning process, all couplers should be disinfected with an adequate disinfectant agent, e.g. 70% alcohol). Both, the faucet and the coupler should be disinfected at every change of the KEGs and at every cleaning cycle.
-  Put faucets into a solution of TM DESANA MAX for approx. 10 min. After this contact time clean them mechanically by means of dedicated brushes. Rinse off with clean tap water after this operation.