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Dear partners!

During the installation or commissioning of the pool, sometimes the personnel can commit one negligence with electromagnetic dosing pumps, they are also called membrane ones (art. 63-10-013-07), which are equipped in the Crystal M station, namely: **the sealing ring (rubber, black) located on the suction valve (see photo 1) is lost**. Since the suction valve is faced downwards, when the suction tube is connected, apparently by accident, this O-ring is touched and it falls to the floor, where it can be lost…

Figure 1

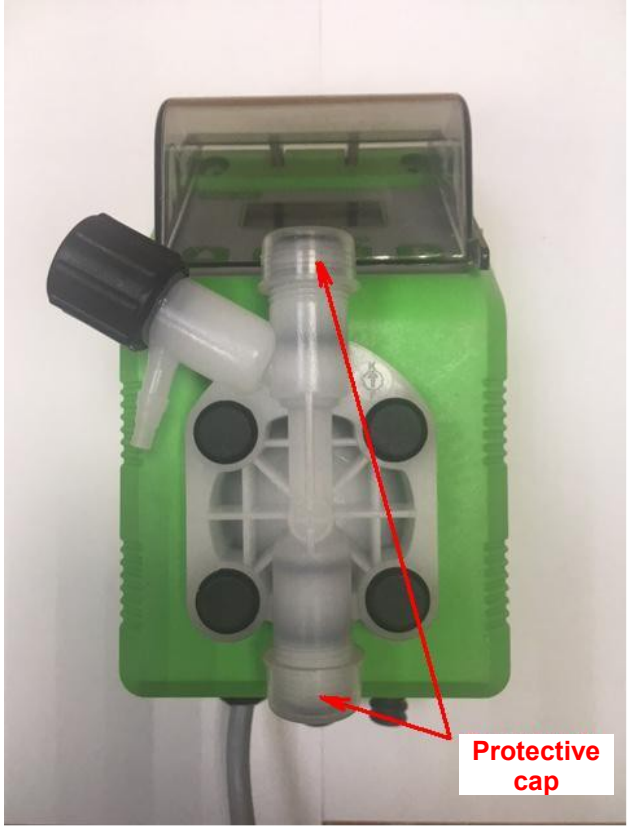

Figure 2

Therefore, when installing the tube to the suction valve, do not be too lazy to bend over and check the availability of the O-ring (it is clearly visible on the white background of the valve). Do not forget to check the availability of an O-ring on the injection valve (it is easier here, it is located on the top and is clearly visible).

The pumps are supplied with protective caps made of translucent plastic (see photo 2) on the suction and injection valves, before packing, the availability of O-rings is checked visually.

However, if the O-ring is lost, you can order it from us, art. 66-15-101-31, the price is 299 rubles. When purchasing it, please note that the rubber must be chemically resistant to reagents. A rubber O-ring such as FPM or EPDM fits.

When commissioning the pool, it is important to note the compliance of the settings of the Crystal M station controller and the membrane pumps, depending on the volume of the pool:

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1. If the volume of the pool is more than 75 cubic meters, then changing the settings of the membrane pump is not required (during pre-sale preparation the “Multiply” multiplication factor is set to 4 on the membrane pump, which corresponds to a capacity of 5.2 l/h).
2. If the volume of the pool is 50-75 cubic meters, then it is necessary to set the “Multiply” multiplication factor to 3 on the membrane pump (see cl. 4.8.2. of the Installation and Operation Manual), as well as on the station controller: maximum capacity is 3.9 l/h (see menu "Settings/System/Dosing pumps" or see cl. 4.6.5. of the Installation and Operation Manual).
3. If the volume of the pool is 25-50 cubic meters, then it is necessary to set the “Multiply” multiplication factor to 2 on the membrane pump (see cl. 4.8.2. Installation and Operation Manual), as well as on the station controller: maximum capacity is 2.6 l/h (see menu "Settings/System/Dosing pumps" or see cl. 4.6.5. of the Installation and Operation Manual).
4. If the volume of the pool is up to 25 cubic meters, then it is necessary to set the “Multiply” multiplication factor to 1 on the membrane pump (see cl. 4.8.2. of the Installation and Operation Manual), as well as on the station controller: maximum capacity is 1.3 l/h (see menu "Settings/System/Dosing pumps" or see cl. 4.6.5. of the Installation and Operation Manual).

Changing these settings is mandatory on both the membrane pump and the station controller!

For reference:

The “Multiply” multiplication factor equal to 1 means that when the membrane pump receives a control pulse from the controller, the pump will make one stroke (“pumping”) of the reagent (corresponds to a capacity of 1.3 l/h). Respectively,

1 control impulse from the controller = 2 strokes (“pumping”) of the reagent, 2.6 l/h, (“Multiply” = 2).

1 control impulse from the controller = 3 strokes (“pumping”) of the reagent, 3.9 l/h, (“Multiply” = 3).

1 control impulse from the controller = 4 strokes (“pumping”) of the reagent, 5.2 l/h, (“Multiply” = 4).

Thus, you can “roughly” adjust the amount of reagent dosing. Correspondence to the “Multiply” multiplication factor of the dosing pump capacity, the volume of the pool, for example: factor 3 = pump capacity of 3.9 l/h, for a 50-75 m3 pool - conditionally and can only serve as a reference when starting the operation of the pool. For the vast majority of pools, this adjustment is sufficient for the entire period of operation.

Best regards, DARIN