Dosino/Dosing Unit – Piston Blocked Error

Troubleshooting 'piston blocked error' on dosino/dosing unit.

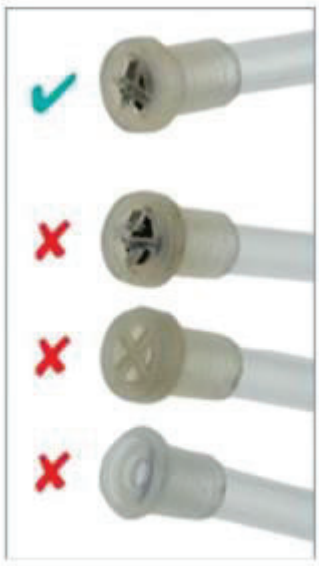
Technology: Titration, Ion Chromatography

How do you know you have this problem?

The piston blocked error occurs due to some sort of resistance applied to the piston when in motion. It is not often caused by the dosino itself.

What can I try to resolve it?

- The tubing, buret tip and/or antidiffusion valve are often the culprits.
- Inspect the tubing from the dosing unit to the titration vessel for blockages.
- Inspect the antidiffusion valve (replace if necessary, part number 6.2726.090):



Antidiffusion Tips

- Disassemble and clean the dosing unit per the following video: Titration – How to clean the dosing unit | Metrohm

What are some ways to prevent the problem?

- Metrohm recommends replacing glass cylinder unit annually.
- Dosing units require regular inspections and must be disassembled down to the cylinder unit from time to time and cleaned as necessary.
- Monthly or even weekly inspections are called for in the event that alkali, corrosive or high-concentration reagents are used. If non-problematic reagents are used, then the inspection intervals can be extended to between six and twelve months.
- If aggressive reagents are dosed with dosing units, then such units should be rinsed with an inert solvent when not in use ('PREP'/Preparing function) and then subsequently emptied ('EMPTY'/Emptying function).

- In the event of that the dosing unit is not in use for > 2 days, the dosing unit should be emptied without fail, because even water can corrode the buret glass in the event of prolonged periods of disuse. Remove the dosing drive (Dosino) in the event of prolonged periods of disuse (longer than one week).

Other ideas

'Submit a request' for further assistance from Metrohm Technical Support at support.metrohmusa.com.