

Minimise Hysteresis in Dual Media Applications

This technote provides tips on how to minimize hysteresis in grease injection applications and similar applications where the high pressure must be kept stable for a long period.

Very thick media > 300 cSt and very slow pressure reductions (leakages) may cause a high-pressure drop (hysteresis) or even a stop before building up pressure again.

We recommend the following:

- Remove the pressure from the IN-port for a short period (1-2 seconds) to reduce hysteresis.
- Add positive pressure on S1 and S2, either by placing media 2 tank above the suction ports or adding a pre-charge pump.
- Heat up the media with high viscosity > 500 cSt in order to reduce the viscosity.
- Install a directional control valve CV on the media side 1 and remove the pressure for 1-2 seconds every 30 seconds.

