

the tov viscometer system application

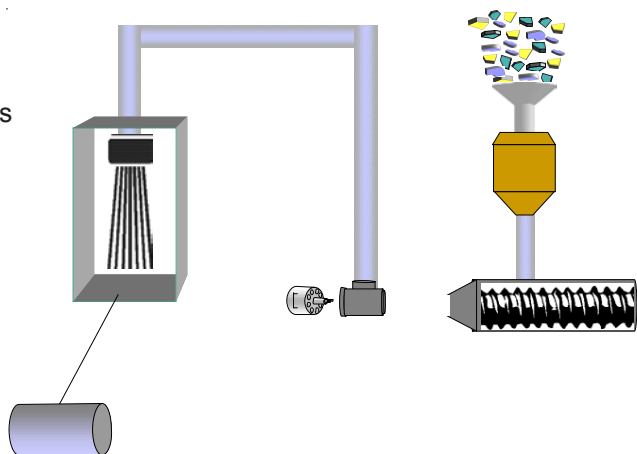
The Extrusion Process

Chip or flake, scrap or recycle, . . . the TOV Viscometer System™ can measure and help control the viscosity levels in the extrusion process. The “TOV” is a very effective process control tool for extrusion processes and will help plants achieve more effective and reliable product output at dramatically improved operating efficiencies.

The TOV Viscometer System™ is a true in-line device providing real time results. The TOV Probe is immersed directly into the process fluid, no capillary or bypass lines, no valves, no lab sampling required . . . the TOV is installed directly into the pipeline using an adaptor just after screw melt extrusion.

Viscosity measurement provides accuracy to within 99.5% while the dual platinum RTD element provides temperature readings at the point where temperature is most significant . . . directly in the flow. The end result is very accurate and repeatable viscosity measurements with no process delays or missed endpoints.

Let's face it. Most plant managers can only dream of a real-time in-line process solution that actually works or performs to its advertised specifications. The Mansco Products solution has proven to be the most effective and reliable process instrumentation available. By using the Mansco Products TOV Viscometer System, plants can:



- Reduce \$200,000 to \$250,000 per year in lab test costs (4 tests per day at \$150 per test).
- Reduce process delays by up to 1500 hours per year (1 hour per test, 4 tests per day).
- Save approximately \$150,000 per year on labor and decreased lab time (\$50 per labor hour, 2 hours per test, 4 tests per day).
- Improve product quality and reliability by undeterminable factors.

When all is said and done, the TOV Viscometer System is an investment in improved quality and productivity.



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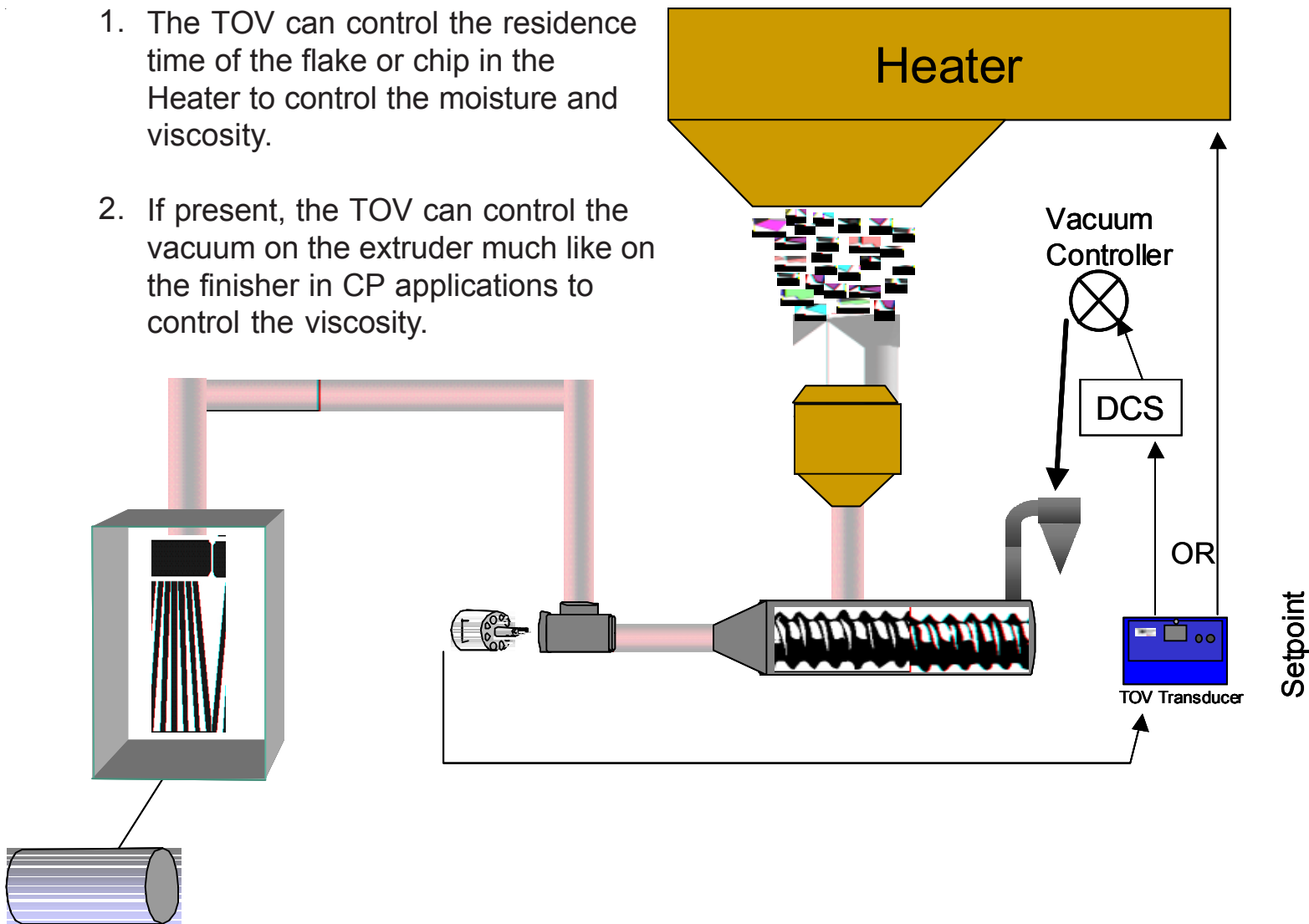
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The Mansco Products TOV Viscometer System™ and the extrusion process

The TOV in-line Viscometer system can be used to control the viscosity in Extruder applications

1. The TOV can control the residence time of the flake or chip in the Heater to control the moisture and viscosity.
2. If present, the TOV can control the vacuum on the extruder much like on the finisher in CP applications to control the viscosity.



For more information, please contact:

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