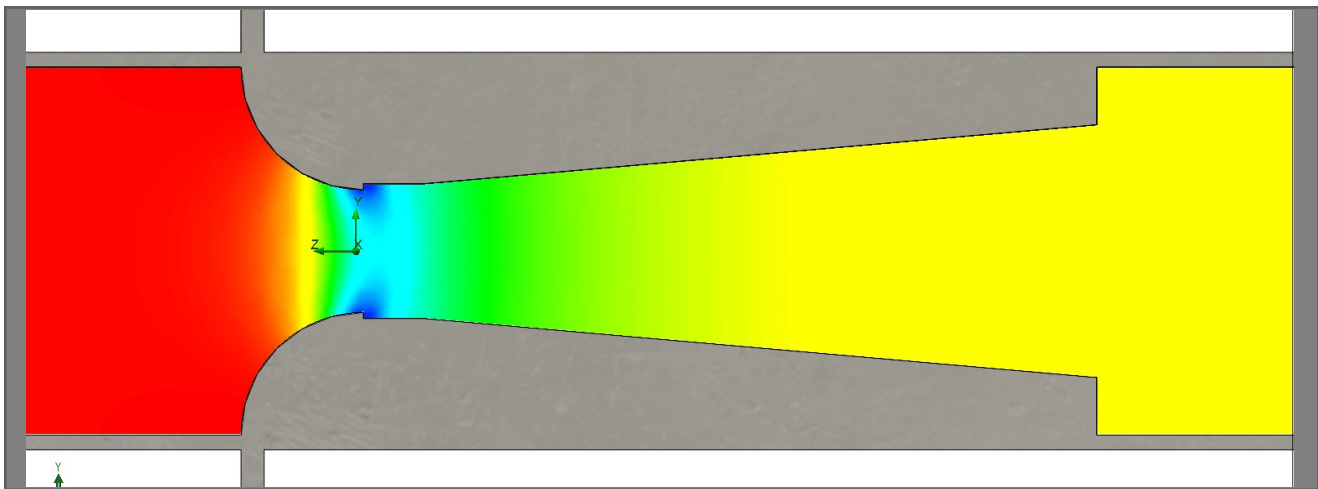


CPA Stepped Nozzle Technology

Canada Pipeline Accessories Stepped Nozzle Technology (SNT) is a modern improvement on the classic venturi critical flow nozzle. Featuring a sharp edged throat expansion, the CPA-SNT nozzle manages to out perform classic smooth throat nozzles in choking scenarios while maintaining the same coefficient of discharge.



Flow Limitation

CPA Stepped Nozzles offer superior flow restriction behavior when compared to the standard ASME Critical Flow Nozzles. Forcing the development of expansion shockwaves within the nozzle throat, CPA Stepped Nozzles are designed to properly choke at the exact flow rate that they were designed for, even when the downstream pressure is further decreased. Non stepped nozzles will experience a mass flow rate increase beyond their choking criteria in these scenarios.

