



# Typical co-axial valve applications

While co-ax® and cx-tec® valves' versatility, precision and repeatable performance make them well suited to a range of uses, there are some applications that have specialized requirements that match up perfectly with the coaxial operational strengths. The following are just a few of those applications.

## Turbines Generating Sets

**Fast Actuation:** Fuel to a diesel or gas turbine generator must be shut off in under 100 milliseconds or very expensive damage can occur. With a cycle speed of 30 milliseconds, co-ax® and cx-tec® valves easily meet the requirement.

**Positive Shut-off:** Any fuel leakage into the turbine could spell disaster at start-up. co-ax® and cx-tec® valves offer powered positive shut-offs, and the system self-adjusts for wear.

## Ingredient Dispensing

**Precision:** To assure exact dispensing with critical products such as paints and adhesives, co-ax® valves offer rapid cycling time and a design that prevents clogging or jamming.

**Repeatability:** To assure consistency from batch to batch, identical amounts must be dispensed under all conditions. co-ax® performance unaffected by operating pressure or wear provides exceptionally consistent performance.

## Machine Tool Coolant Control

**High Cycle Life:** Machine tool coolant valves can operate over a thousand times per shift. While conventional valves quickly wear out under constant cycling, co-ax® and cx-tec® valves are designed for millions of cycles.

**Related Applications:** Filling Machines, Dispensing Systems

## Pressure Decay Testing

**Pressure balanced design:** Operating conditions vary greatly, directions change, while vacuums, high pressures and zero pressure differentials are all present. But co-ax<sup>®</sup> and cx-tec<sup>®</sup> valves are flow – and pressure-independent, so they deliver repeatable performance.

**Positive Shut-off:** Unlike valves that shut-off using operating or differential pressure, co-ax<sup>®</sup> and cx-tec<sup>®</sup> valves are powered shut for consistently positive, leak free shut-offs.

**Related Applications:** PSA Gas Generating Systems, Compressed Gas Systems

## Silicon Chip Etching Machines

**Compact Size:** Without bulky external actuators, co-ax<sup>®</sup> and cx-tec<sup>®</sup> valves are much smaller than comparable valve types; a critical conditions in equipment where space is a premium.

**Precision:** A process, this exact, demands that most precise and repeatable media control. Able to consistently operate at speeds as fast as 30 milliseconds over millions of cycles, co-ax<sup>®</sup> and cx-tec<sup>®</sup> valves fit the bill perfectly.

**Related Applications:** Foam Dispensing Systems, Hydraulic Power Units.

