



Valve-Gard® Safety Shields: Introduction

Because of the wide range of harsh environments and performance requirements in the chemical processing industries, a wide selection of valves is necessary. However, approximately one-third of all chemical plant emissions come from equipment leaks — **and valves are the biggest potential source of leaks and sprayouts.** They are a major weak point in a piping system because they contain several areas from which leaks or sprayouts can occur.

When selecting a valve, in addition to process fluid, [temperature and pressure](#) of the line, the operating principles of the major valve groups also should be considered. And lastly, another important factor is the appropriate selection of a safety shield.

Safety shields for valves complement those for flanges, providing a system that protects employees from injuries and equipment from damage and shut-down.

Unlike flanges, valve dimensions vary extensively, both among manufacturers and styles. Due to this wide variance in specifications, each valve shield requires its own design. To address this challenge, RAMCO® maintains an extensive library of US and International valve manufacturers. And with changes in valve technology, these data are updated

