

Volume 5



# BALL SOLUTIONS

## Balls for Valves

Hartford Technologies is the industry leader in the design and manufacture of precision balls for valves. Our goal is to partner with you to identify the best possible solutions for your next valve project:

**Check - Hydraulic Cartridge - Hydraulic Shuttle - High and Low Pressure Relief Flow Control - Pneumatic - Poppet - Float - True Union - Fuel Pump**

Hartford balls for check valves, hydraulic, cartridge style, shuttle ball type and true union and shuttle ball valves are manufactured in materials to meet your requirements for hardness, chemical compatibility and recyclability, as well as FDA and EC/EC/EMEA requirements.

### Materials and Sizes

We specialize in precision balls for valves that are made from heat treated stainless steel 420 and 440C, also soft stainless materials, including 302/18-8, 304, and 316. Other balls for valves we supply include brass and 52100 chrome steel. We produce a broad range of sizes, from 1mm-50mm and in geometric tolerances to suit the application. We have recently added manufacturing capabilities to meet increased demand for various shapes and designs of poppet valves.

Hartford valve ball specialists work with customers to identify the best solutions and to assure that balls seat properly in all cases. We supply applications diverse as fuel pumps/carburetors, natural gas, transportation,

fire prevention equipment, agricultural equipment, automotive fuel and refrigeration valves, hydraulic manifolds, outboard motors and oil patch equipment.

### Balls Prototyping

Our rapid prototyping service is known as one of the industry's pre-eminent resources for the development and testing of precision balls for valves. Hartford's two-continent operations provides additional advantages in lead time, logistics and cost, particularly for global customers.

### Hartford Quality = Zero PPM Rejects

Hartford Technologies is ISO 9001-2008 certified. We also conform to ABMA standards regarding surface, sphericity and size. Our quality commitment also includes APQP, a process that ensures that product design meets customer expectations, while promoting strategies that "design-out" potential problems and boost productivity for Hartford customers.



Of Service to Industry

