



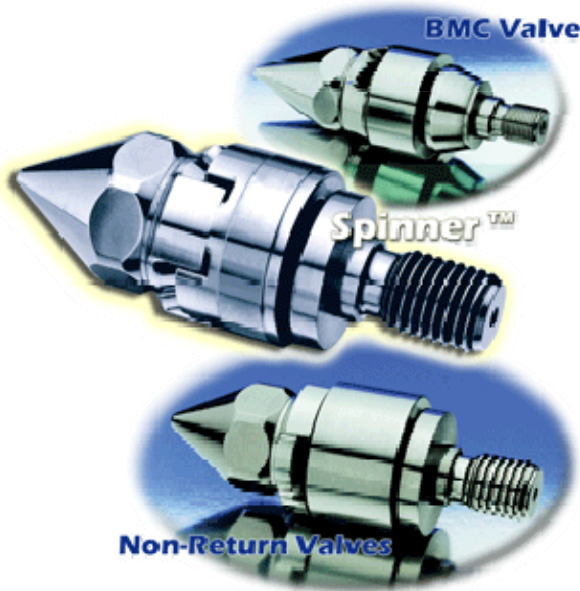
MALLARD® 4-PIECE VALVES

The premier valve of the injection molding industry, MALLARD® 4-piece valves are without a doubt the most versatile product of its type in the industry today. Utilizing a "building block" design concept, MALLARD® valves provide numerous advantages for any processing need, including:

- **Replaceable wear components**
- **Tough, reusable stainless steel retainer**
- **Self-cleaning free flow design**
- **Availability for all injection molding machine makes & models**
- **Advanced computer design technology**

All valve designs allow use of the same retainer and rear seat, and incorporate a replaceable front seat and check ring concept. That saves you money, and allows for easy customization of your valve for any need.

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Standard Sliding Ring Valves The standard MALLARD® valve is made of high-speed abrasion resistant powdered metal materials and has a replaceable heat treated stainless steel retainer for maximum toughness and corrosion resistance.

Carbide-Faced Valves For extreme processing conditions, we offer MALLARD® valves that are manufactured utilizing carbide-faced components. These tough valves carry the industry's only **THREE-YEAR WEAR-THROUGH GUARANTEE** on all carbide-faced surfaces.

Stainless Steel Valves MALLARD® valves can be manufactured utilizing highly corrosion resistant CPM® S90V materials for extra protection in extreme conditions such as molding PVC.

Spinner™ Valves The Spinner™ valve is a direct replacement for a standard ball check valve, and features a 4-piece interlocking design. Perfect for applications using non-filled resins, fast injection cycles & high speed screw rotation, the Spinner™ valve provides the latest technology for reliable performance. When processing fluoropolymer applications, we recommend the Spinner™ design manufactured from ultra corrosion resistant Inconel and/or Hastelloy materials. For optimum flexibility, all Spinner™ parts are interchangeable with MALLARD® 4-piece standard & carbide-faced valves