



ZEIGER
Industries

ZEIGER Z4

Screw Tip Overview

Zeiger's "Z" Series Ultimate Performance screw tips are the most reliable valves in the industry. Our repeatability and longevity are second to none. Our performance is trusted by the world's top IMM manufacturers, medical molders, custom molders, and high-speed molders. Zeiger designed and patented the Z4 (Mallard) 4-piece valve. All manufacturing is done in-house including the heat treating of all components. The absolute best quality steel is used in every valve. Every valve component is ground and polished to a mirror like finish. No shortcuts are taken. The Z4 design is a result of engineering, experience, and physics...not reverse engineering, guessing, and profit grabbing. That's why Zeiger can offer a 100% customer satisfaction guarantee.

1) General Terminology and details for Zeiger Screw Tips:

- a. Names used interchangeably by molders & manufacturers for Screw Tips:
 - i. NRV: Non-Return Valve
 - ii. Tip Assembly/Tip
 - iii. Check Valve/Valve
 - iv. Screw Tip

2) Zeiger's NRV Details:

- a. Registered trade name for the Zeiger NRV: "Mallard" & "Z4"
- b. NRV Type:
 - i. 4-Piece
 1. Retainer (a.k.a. tip or cone)
 2. Front-seat
 3. Check-ring
 4. Rear-seat
 - ii. Floating check-ring
 - iii. Free flow: which means that there are no shear points or disruptions in the flow path of the resin through our NRV
 - iv. Front-seat 3-Fluted: Zeiger patented this portion of the NRV. Provides up to 40% more wear surface and better flow dynamics.