# Figures 7125-D, 7125-U
## Tilting Disc Check Valve

Data Sheet 7125.01

### Description

The VAG/GA Industries Tilting Disc Check Valve features a streamlined design and full flow area for lower head loss than conventional swing check valves. Its energy efficient operation is combined with a short 40-degree disc stroke that provides quick closing valve to minimize hammer.

The valve employs offset seating technology to smoothly lift the disc off of the seat during opening and into the seat during closing without binding or sticking.

The offset also design divides the disc so hydraulic forces acting on the upper third of the disc counteract the lower two thirds for an inherent cushioning effect.

### Product Features

- Full port waterway with streamlined flow path
- Stable airfoil shaped disc
- No packing glands or external weights or springs
- Upstream and downstream inspection ports

### Standard Materials

- Class 125 Body — Cast Iron, ASTM A126 Class B
- Class 250 Body — Ductile Iron, ASTM A536 Grade 65-45-12
- Disc (6” to 14”) — Lead Free Bronze, C95400
- Disc (16” to 36”) — Ductile Iron, ASTM A536 Grade 65-45-12 Ductile Iron,
- Body Seat Ring — Lead Free Bronze, C95400
- Disc Seat Ring — Lead Free Bronze, C95400
- Pivot Pins — Stainless Steel, Type 303
- Pivot Bushings — Lead Free Bronze, C95400
- External Fasteners — A307 Steel, Zinc Plated

### Corrosion Protection

- Standard: — Internal and Carboline 891 NSF-61 Certified 2-Part Epoxy, min. 6 mil DFT

| Non-Shock Working Water Pressure at up to 150F (66C) | | |
|---|---|---|
| **Figure Number** | **7125-D** | **7125-U** |
| **Size** | 6” to 36” | 6” to 36” |
| **Flange** | ANSI B16.1 Class 125 | ANSI B16.1 Class 250 |
| **Max Working Pressure** | 150 PSI | 250 PSI |
| **Hydro Test** | 225 PSI | 375 PSI |

### Approvals & Certifications

- NSF-61 Certified for Contact with Drinking Water
- NSF-372 Certified Lead Free (Max 0.25% Lead Content by Weighted Average)

### Options/Accessories

- Option PI — Visual Position Indicator
- Option 1S — With Single Honeywell Micro Switch NEMA 1, 2, 4, 6, 12 & 13 SPDT Limit Switch (Includes Visual Position Indicator)
- Option 2S — With Dual Honeywell Micro Switch NEMA 1, 2, 4, 6, 12 & 13 SPDT Limit Switches (Includes Visual Position Indicator)

### Ordering Data

- Figure Number (7125-D, 7125-U)
- Size
- Options and/or Accessories

### Other Versions

- With Bottom Buffer – See Data Sheet 7125B.01
- With Top Mounted Hydraulic Dashpot – See Data Sheet 7125T.01

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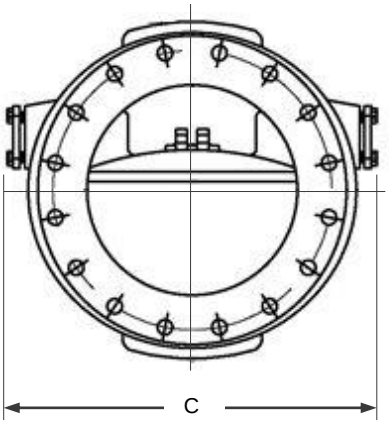
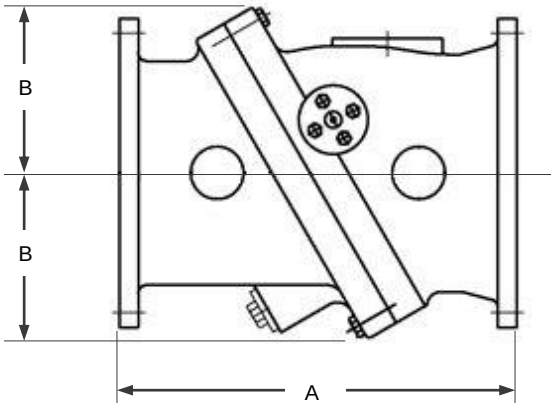
# Figures 7125-D, 7125-U
## Tilting Disc Check Valve

Data Sheet 7125.01



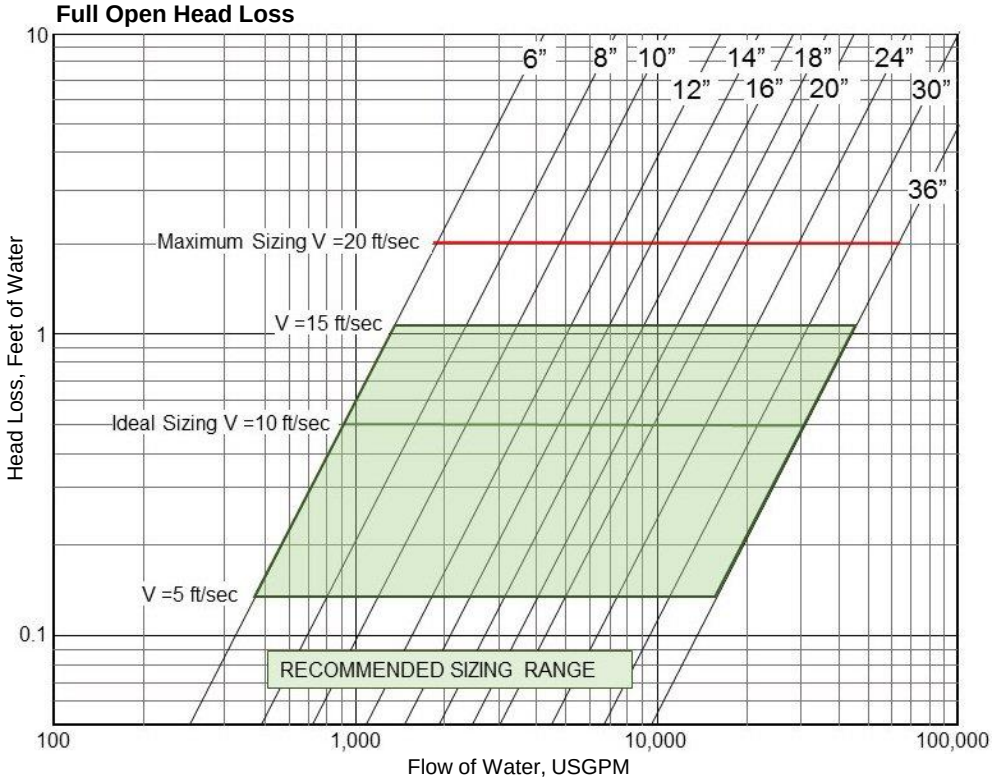




**Installation Dimensions**

| SIZE | | 6” | 8” | 10” | 12” | 14” | 16” | 18” | 20” | 24” | 30” | 36” |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | 15½ | 17½ | 24½ | 24 | 31 | 30 | 33 | 32 | 38 | 52 | 59½ |
| B | | 5½ | 7¼ | 8¼ | 10 | 10¾ | 12⅝ | 13⅛ | 14¼ | 16½ | 22⅞ | 25 |
| C | | 14 | 19 | 19½ | 25 | 26 | 28½ | 30½ | 34 | 36½ | 48 | 53 |
| WGT | CL125 | 200 | 300 | 460 | 650 | 900 | 1,150 | 1,550 | 1,810 | 2,680 | 5,000 | 7,700 |
| | CL250 | 245 | 355 | 550 | 760 | 1,055 | 1,365 | 1,880 | 2,180 | 3,265 | 5,725 | 8,410 |

Dimensions in inches, weight in pounds and are approximate. Request certified drawings if critical.
Dimension A same for Class 125 and 250. Class 250 supplied flat face.

**Full Open Head Loss**




Note: Fluid velocity below 5 ft/sec can result in disc flutter and instability contributing to accelerated bearing/pivot pin wear.

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